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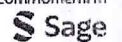
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Animesh Bhattacharjee<sup>1</sup>, Joy Das<sup>2</sup> and Sunil Kumar<sup>1</sup>

### Abstract

This article investigates the symmetrical and asymmetrical linkage between gold prices and the Indian stock market in the presence of structural breaks. The study covers a time frame from April 1993 to December 2019. The study employs both linear autoregressive distributed lag (ARDL) and non-linear ARDL (NLARDL) models. The major findings of the study are as follows: first, both the ARDL and NLARDL models indicate the co-movement of gold prices and the Indian stock market. Second, based on the long-run parameters of both the models, the long-run relationship between the variables could not be established. Third, short-run parameters show that positive shocks in gold prices depress the Indian stock market; however, negative shocks in gold prices have a positive but insignificant relationship with the Indian stock market. The asymmetric reaction of the Indian stock market will yield new insights for investors, fund managers, and policymakers.

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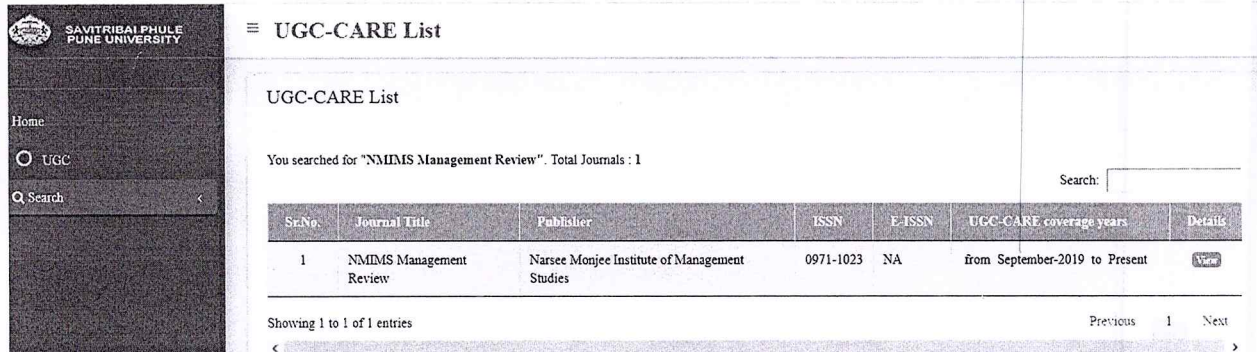
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Animesh Bhattacharjee<sup>1</sup>, Joy Das<sup>2</sup> and Sunil Kumar<sup>1</sup>

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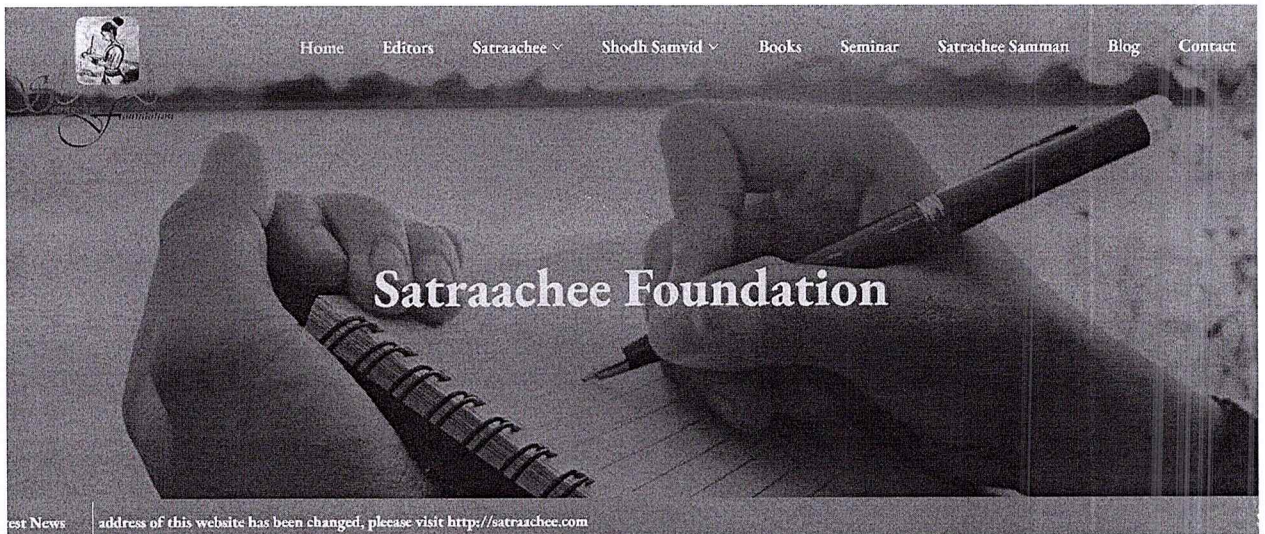
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## Analysis of the Financial Disclosures of Corporate Governance in Tripura Gramin Bank

- Mr. Samarjit Saha<sup>1</sup>
- Dr. Sunil Kumar<sup>2</sup>

### Abstract

As generally understood, Corporate Governance is a set of structural arrangements that emerges in free-market economies to align the management of the companies with the interests of their shareholders, other stakeholders, and society. How does it apply to the banking sector, particularly Regional Rural Banks (RRBs)? Has the amalgamation of RRBs resulted in improving governance? The present paper looks at its current status in India. It evaluates

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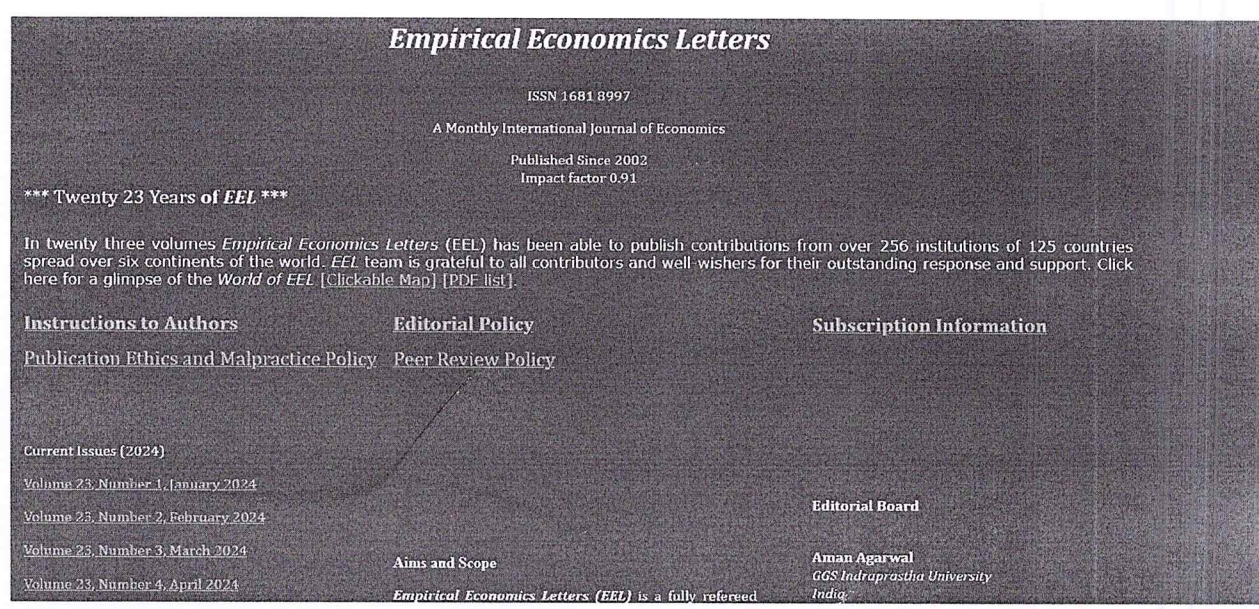
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*Empirical Economics Letters, 21 (Special Issue 2): (July 2022)* ISSN 1681 8997

## A Discriminating Economy is the Root of Every Demolition

**Sunil Kumar**

*Faculty of Management and Commerce  
ICFAI University Tripura, Agartala, Kamalghat, West Tripura  
Email: drsunilaz@gmail.com*

**Abstract:** There is different establishment masterminded enthusiastic for clarifying and destroying dejection, affliction, exchange, refreshing desire for regular solaces, etc. Yet simultaneously, there are a couple of things which can't be handled, why there isn't kept up one cash rotate in this world, why there is the assorted confidence in so various God, why a couple of individuals passed on with hunger and starvation, why there are different principles and law for every country. There's should be thriving for "One World One rules". Our Environment, culture, living style, energy, language, shadings, and cash are one of a kind and vacillates beginning with one nation then onto the following, yes, its existence that

  
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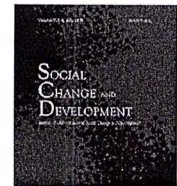
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Social Change and Development

Vol. XX No. 1, 2023

**Out-Migration from Tripura: An Exploration**

Pradip Chouhan<sup>1</sup>, Indraneel Bhowmik<sup>2</sup>, Dilip Kr. Rana<sup>3</sup> & Pritam Bose<sup>4</sup>

**Abstract**

*The aspect of out-migration in India varies enormously across the different regions and has several dimensions. In the North-Eastern region, out-migration has been rising in recent years owing to limited economic opportunities, widespread social and political stress, and the changing aspirations of the people, particularly youth. Census data provides a substantial glimpse over the causes of migration, but there is not much to learn about the consequences. In this context, the present paper examines the causes, linkages, and factors behind the incidence of out-migration from Tripura using primary data in the backdrop of the New Economics of Labour Migration (NELM).*

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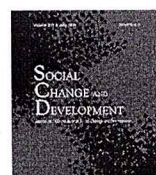
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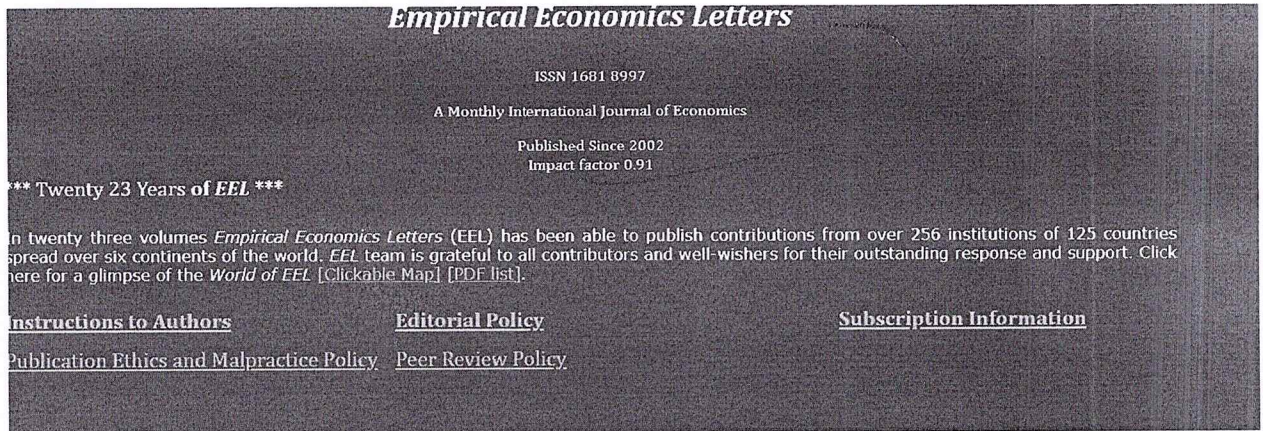
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## Examining the Factors Affecting Consumer Attitudes regarding Internet Shopping: A Case Study in Agartala, India

Pritam Bose<sup>1</sup>; Abhijit Pandit<sup>2</sup>; Debabrata Dutta<sup>1</sup>

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1. Faculty of Management and Commerce, ICFAI University, Tripura  
2. Management Development Institute, Murshidabad, India

**Abstract:** The purpose of this study is to investigate the factors that are causing consumers to increase their use of internet shopping. This research is one of a kind and very essential to the field. This study focuses on the factors that drive customers in Agartala to shop online and highlights such characteristics. The city of Agartala was chosen as the population to study for the research paper. The number of participants in the sample was set at one hundred, and the researchers collected the data through the use of a simple random sampling method. In order to conduct an examination of the data, factor analysis was carried out. Following the conclusion of the research, it was discovered that the four factors that influence Agartala consumers' attitudes towards online buying are an optimised search engine/artificial intelligence (AI), logistics, cyber encrypted policy and state policy.

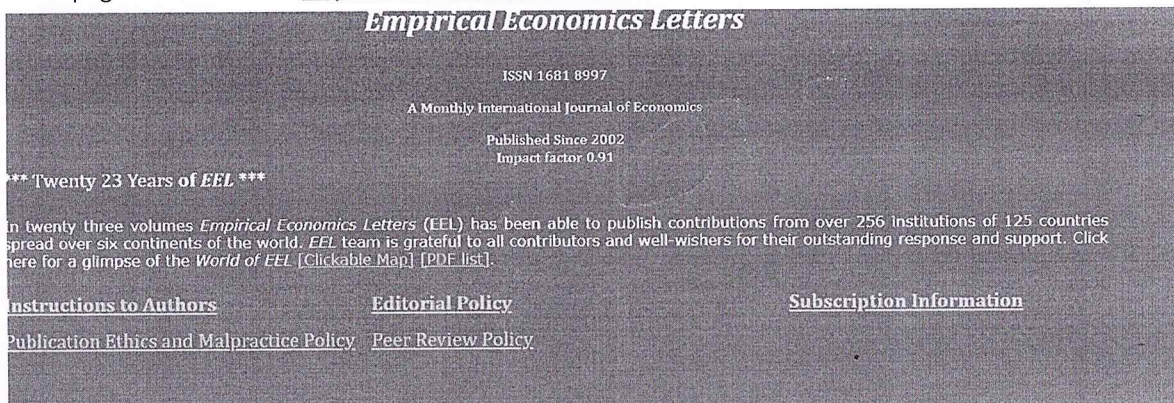
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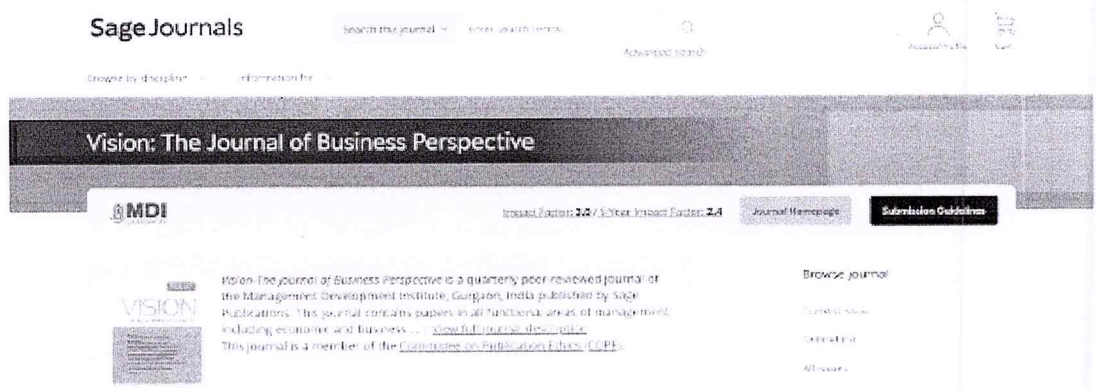
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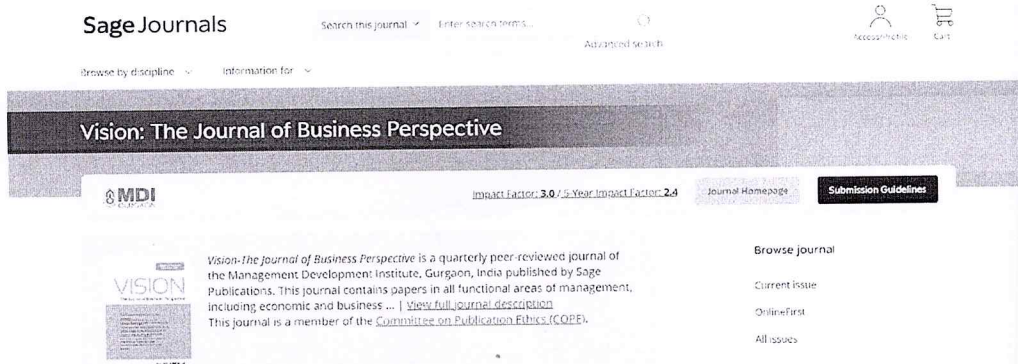
  
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**The Scenario of National Thermal Power Corporation Pre and post Disinvestments - A paired t test analysis**

Mukesh Kumar Gupta<sup>1</sup>, Gokul Acharjee<sup>2</sup>, Abhijit Pandit<sup>3</sup>, Harendra Kumar<sup>4</sup>

<sup>1</sup>Ph.D. Scholar, AIBS, Amity University, Noida, UP 201306

<sup>2</sup>Assistant Professor, Faculty of Management and Commerce, ICFAI University, Tripura

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<sup>4</sup>Associate Professor, AIBS, Amity University, Noida, UP 201306

**Abstract**

According to the global restructuring trend, the reform and restructuring process in the Indian electrical industry has been ongoing since 1992. This paper describes the current state of the Indian power industry and highlights the government's recent restructuring efforts and policies. Several essential parts of the reform agenda have been executed with differing degrees of success in various Indian states. A reorganization concept for UPPL is offered. If necessary, this model may be implemented at the national level with appropriate revisions. Many developing and transition nations have implemented market-oriented reforms in their electric power sectors since about 1990. Despite extensive use of a uniform policy model, reform procedures and results have often fallen short of expectations. This study examines common elements of non-OECD electrical reform and reassesses reform programs and underlying assumptions based on a comprehensive literature analysis and case studies in Asia, Africa, Latin America, and Eastern Europe. In contrast to the sector-focused policy aims of deregulation in OECD nations, non-OECD changes are shaped by national fiscal crises, macroeconomic reforms, and lobbying by international lenders. It also emphasizes reform's reliance on recruiting foreign money and, as a result, its susceptibility to fluctuating international financial circumstances. A wide variety of non-OECD reform experiences show that a restricted emphasis on finance and cost recovery, when implemented rigidly, typically leads to poor outcomes. According to the study, strengthening reforms would need a larger range of goals, such as service supply, public benefits, effective regulation, and social-political legitimacy. Reforms must, above all, be founded on realistic evaluations of national needs and capacities.

**Keywords:** restructuring, reform, OECD, regulation, electrical industry

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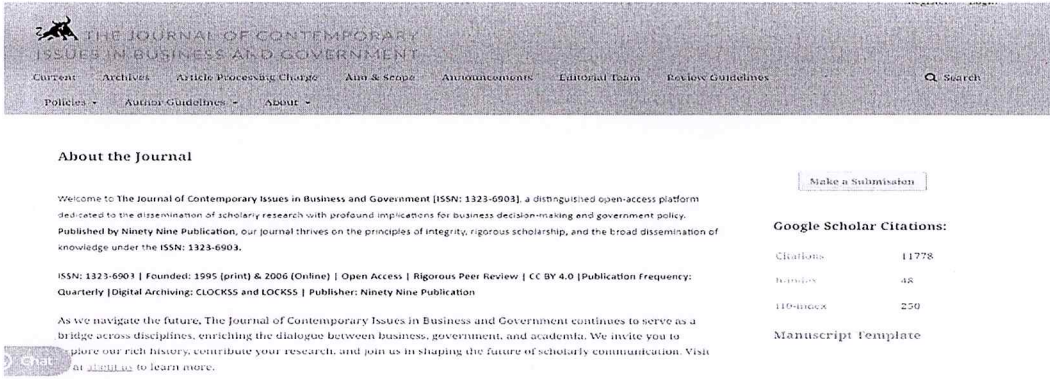


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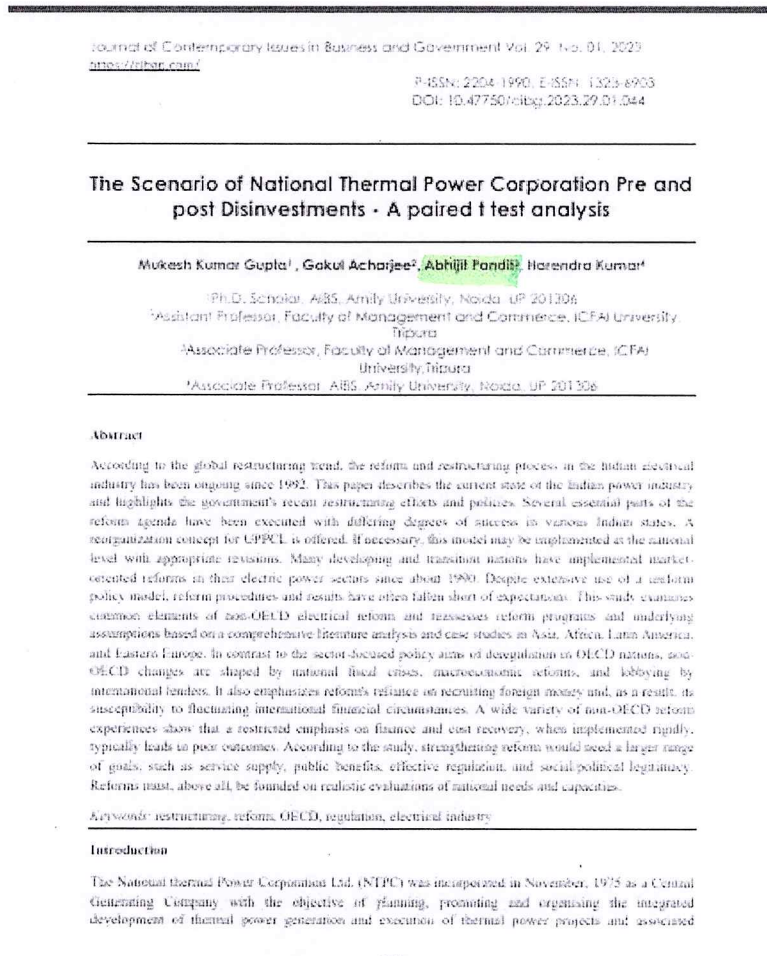
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### Financial Performance of Public and Private Sector Banks: A Comparative Study

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**Susmita Saha**

Faculty of Management & Commerce  
The ICFAI University Tripura, India

**Abstract:** This paper aims to conduct a comparative study on the financial performance of public and private sector banks during the past ten years utilizing the CAMEL model, group ranking, and ANOVA analysis. The non-performing assets of public sector banks are quite significant as a result of their credit practices, unfavourable terms and conditions of loans and inadequacies in the process of credit sanctions and loan distribution. This has a detrimental effect not only on individual banks but also on the economy as a whole. According to the findings of the study, the performance of all private sector banks is significantly higher than that of public sector banks. The outcome demonstrates that there is a material distinction between the levels of financial performance exhibited by public and private sector banks across all five dimensions, as well as a material distinction between the levels of financial performance exhibited by the two types of banks as a whole. In addition, the report makes recommendations for bettering the financial performances of public sector banks by decreasing the amount of non-performing loans (NPAs).

**Keywords:** Financial Performance, Public Banks, Private Banks, Loan, NPAs

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**Financial Performance of Public and Private Sector Banks:  
A Comparative Study**

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**Abstract:** This paper aims to conduct a comparative study on the financial performance of public and private sector banks during the past ten years utilizing the CAMEL model, group ranking, and ANOVA analysis. The non-performing assets of public sector banks are quite significant as a result of their credit practices, unfavourable terms and conditions of loans and inadequacies in the process of credit sanctions and loan distribution. This has a detrimental effect not only on individual banks but also on the economy as a whole. According to the findings of the study, the performance of all private sector banks is significantly higher than that of public sector banks. The outcome demonstrates that there is a material distinction between the levels of financial performance exhibited by public and private sector banks across all five dimensions, as well as a material distinction between the levels of financial performance exhibited by the two types of banks as a whole. In addition, the report makes recommendations for bettering the financial performances of public sector banks by decreasing the amount of non-performing loans (NPAs).

**Keywords:** Financial Performance, Public Banks, Private Banks, Loan, NPAs

**JEL Classification Number:** G20, G21

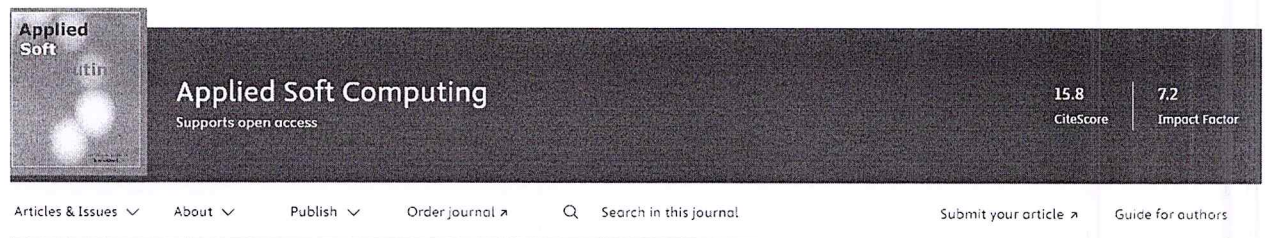
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

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


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# An ARIMA-LSTM model for predicting volatile agricultural price series with random forest technique

Soumik Ray <sup>a,1,2</sup>, Achal Lama <sup>b,1,3</sup>  , Pradeep Mishra <sup>c,4</sup>, Tufleuddin Biswas <sup>d</sup>,  
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# Temporal Modelling of the Spread of Late Blight Infestation on Potato at Pundibari (a Part of Coochbehar District)

Published: 30 December 2023

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## Abstract

The paper is devoted to study the dynamics of the infestation of potatoes owing to the occurrence of late blight disease over two successive years (2014 and 2015) in the Terai region of West Bengal. Nonlinear models have been fitted on the potato late blight data (i.e. percent disease index data). The goodness-of-fit tests on different models have been performed by the application of the following criteria, namely coefficient of determination, mean absolute error, mean absolute percentage error, average relative predictive error, Akaike's information criterion and Bayesian information criterion, respectively. The validation of the models has been carried out by the Shapiro-Wilk test and running test for conforming to the assumptions of normality and independence of the errors, respectively. Based on the application of the goodness-of-fit tests on



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SECTOR OF AGARTALA**

**Prahalad Deb**

MBA, the ICFAI University Tripura, Kamalghat.

**Arijit Choudhury**

Team Member Training: HR (L&D), Bandhan Bank, Gokulnagar, Tripura.

**Dr. Soumitra Sankar Das**

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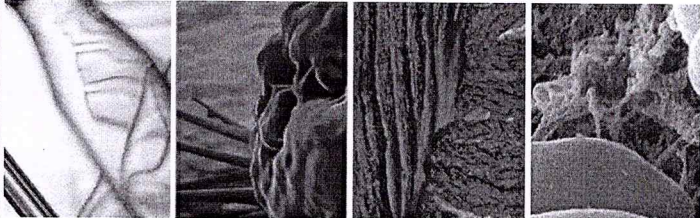
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KVK, Bihar Agricultural University

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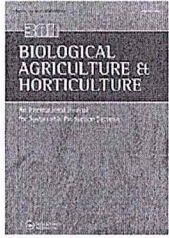


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## Comparing effects of different trellis systems for organically grown ridge gourd (*Luffa acutangula*)

Aradhana Sen, Shekhar D Khade, Soumitra Sankar Das & Ranjit Chatterjee

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### ABSTRACT



Small and marginal farmers of West Bengal, India, rely primarily on traditional knowledge of farming and lack diversity in their agricultural practices. Although traditional practices have undoubtedly provided good yields, there is scope for improvement in terms of the benefit-to-cost ratio of different production techniques. This study was conducted to evaluate plant growth, yield, and profitability comparing six different trellis systems for

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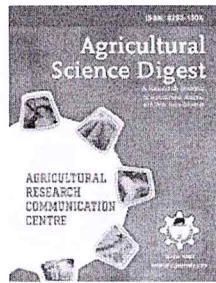
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# Agricultural Value Chain in the North-East Region of India: Present Scenario and Future Prospects

Priyabrata Roy<sup>1</sup>, Sujoy Hazari<sup>1</sup>

10.18805/ag.D-5723

### ABSTRACT

Developing agricultural value chains for local and international markets might alleviate poverty and food insecurity in northeast India. This is particularly true in north-east India, where farmers may produce agricultural commodities with higher value-added potential if processing, marketing and distribution are available, therefore boosting the value of the end product. This article addresses the need for shared knowledge and awareness of modern agricultural value chain improvements to aid decision-making. This study addressed agricultural value chain challenges holistically. Agribusiness expansion and value chain management in northeast India are also explored. A brief literature overview highlights real-world applications and ongoing research. Secondary data from value chain and related literature was utilised. The study highlighted key agricultural value chain concerns and recommended their establishment and growth in North Eastern India. This study enhances agricultural value chain management.

**Key words:** Agribusiness, Agriculture value chain, Supply chain, Value chain management.

Agriculture is vital for long-term development and poverty reduction (Miller and Jones, 2010; Sugawara and Nikaido, 2014). Agriculture, particularly in India, offers the potential for market-driven economic growth, which might benefit national and regional agricultural value chains (Kumar and Sharma, 2016). 48% of India's 1.3 billion people worked in agriculture (NSSO, 2021; Mac Clay and Feeny, 2018). Globalisation creates new economic prospects for developing countries, both on national and international markets (Guritno, 2018). Agribusiness is essential to eliminating poverty and fostering sustainable development (Devaux *et al.*, 2018). Agri-research must complement other efforts to enhance the regulatory environment, eliminate

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**Corresponding Author:** Priyabrata Roy, Faculty of Management and Commerce, The ICFAI University, Agartala-799 210, Tripura, India. Email: priyabrata.r@iutripura.edu.in

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value chain as a tool for the socioeconomic development of

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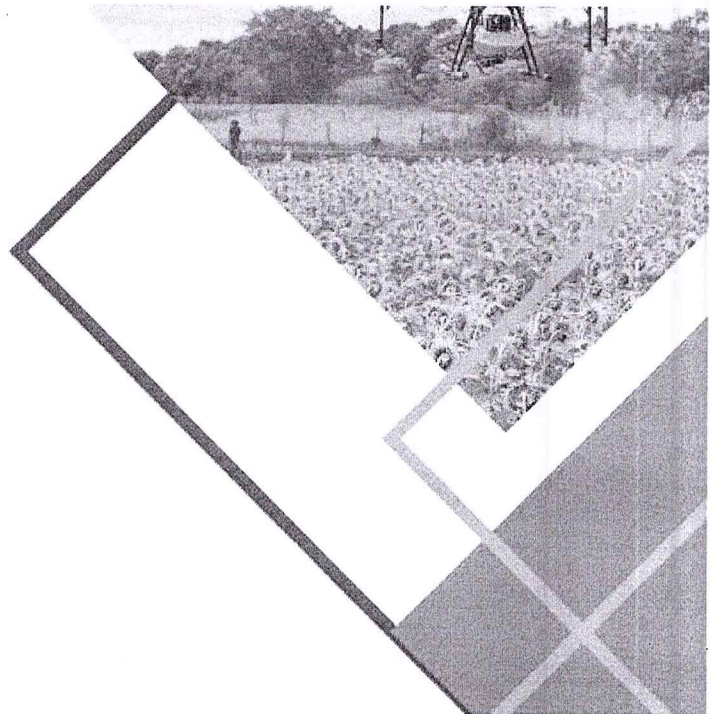
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# Study on APMC Regulated Markets in Tripura

*Sujoy Hazari and Trinankur Dey<sup>3</sup>*

## Introduction

Agriculture sector is a major contributor to the Indian economy as it provides living for almost 70% of rural families (Food and Agriculture Organization). However, agriculture in India is grappling with several challenges including traditional agricultural practices, excessive reliance on the monsoon, land fragmentation, low productivity and low investment. Before the green revolution, people were faced with a huge food crisis because of low production and unorganised marketing system. With the improvement in science and technology, new inputs and technology were innovated and brought into the market that led to marked improvement in the production capacity of our farmers. Even though the effects of green revolution and technology adoption was not evenly distributed in the country, the culmination of these factors resulted in improvement of the status of our country from deficit-oriented production to surplus-oriented production (Rehman, Selvaraj and Ibrahim,

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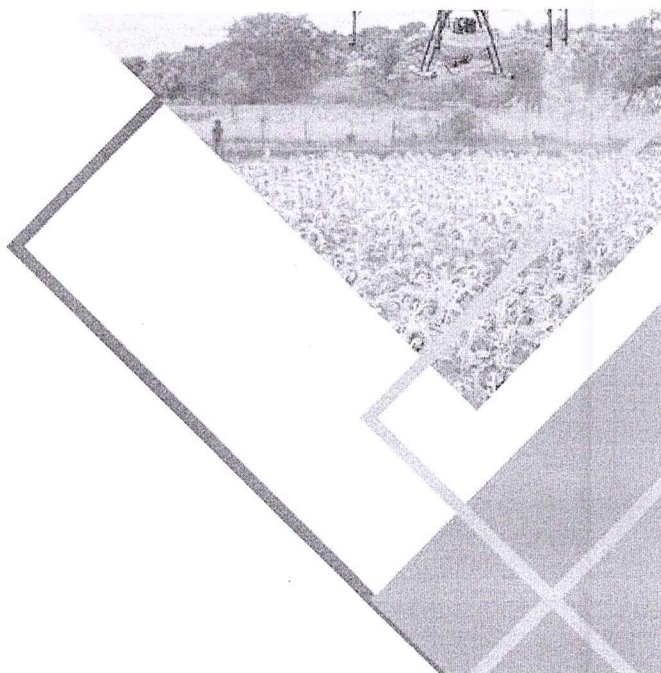
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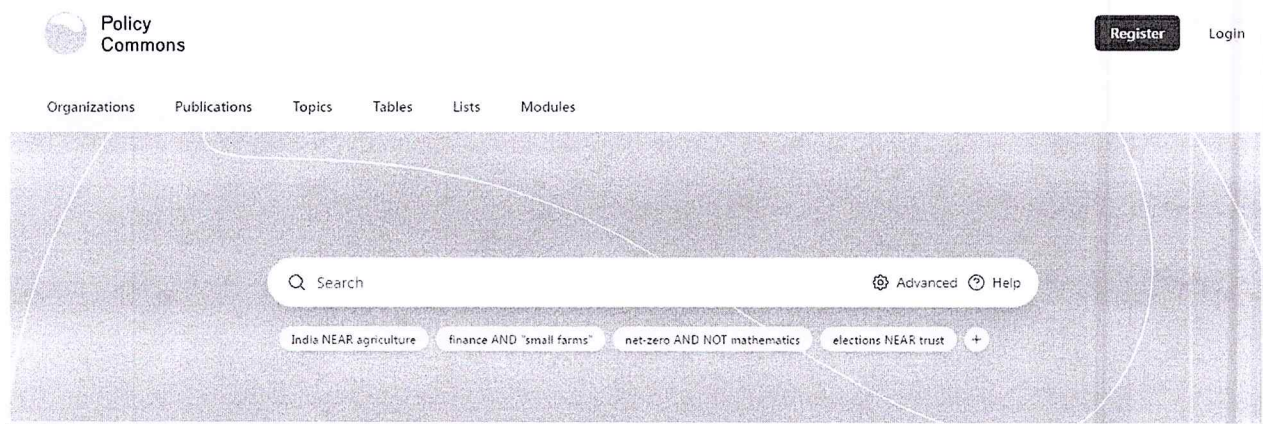
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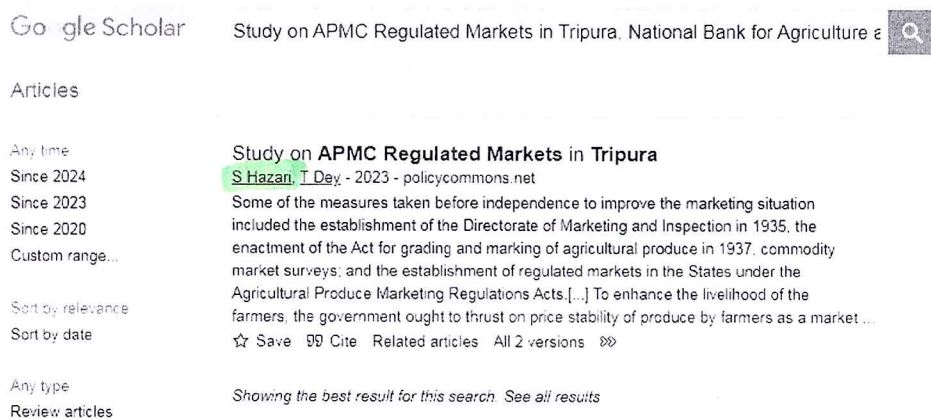
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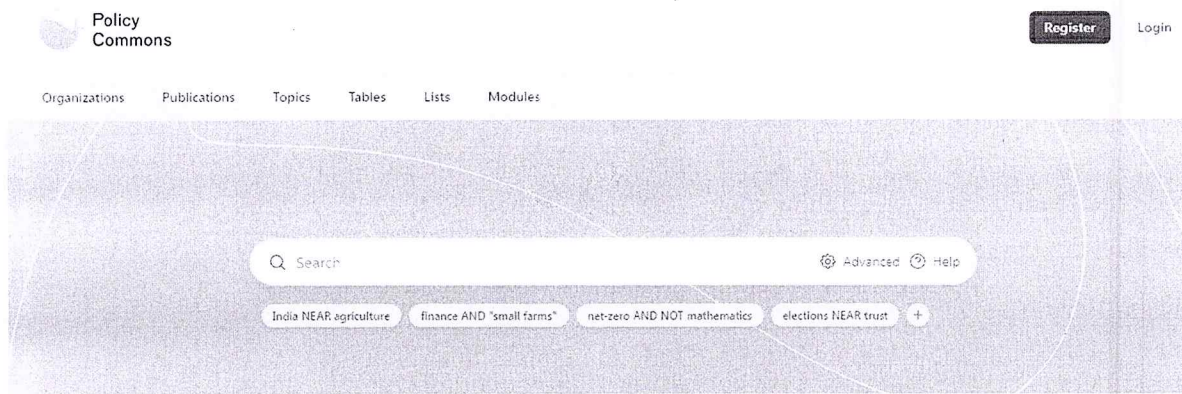
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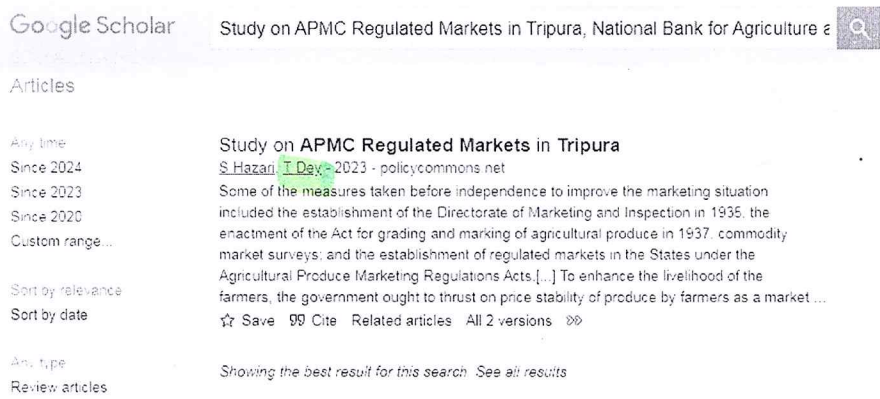
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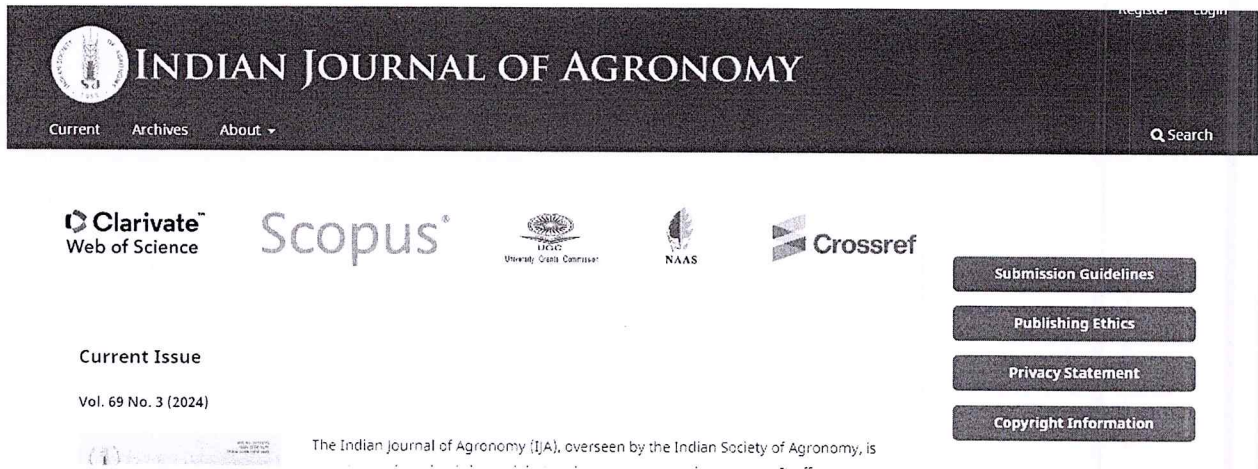
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Indian Journal of Agronomy 68 (1): 37–43 (March 2023)

Research Paper

## Identifying a viable agro-technique to improve productivity of medium-duration pigeonpea (*Cajanus cajan*) in north-eastern hills zones of India

BIMAN DE<sup>1</sup>, PARTHA DAS<sup>2</sup>, D.P. AWASTHI<sup>3</sup>, BUDHACHANDRA THANGJAM<sup>4</sup>, BANANI DAS<sup>5</sup> AND SUJOY HAZARI<sup>6</sup>

All India Coordinated Research Project on Pigeonpea, Research Farm, College of Agriculture,  
Tripura, Lembucherra, West Tripura 799 210

Received: July 2022; Revised accepted: February 2023

### ABSTRACT

An experiment was conducted during the rainy (*kharif*) season of 2018 and 2019 at research farm of College of Agriculture Tripura, Lembucherra, West Tripura, to identify a viable agro-technique for improving productivity of medium-duration pigeonpea [*Cajanus cajan* (L.) Millsp.]. Treatments comprised all possible combination of no nipping ( $N_0$ ), nipping @ 45 days after sowing (DAS) ( $N_{45}$ ), nipping @ 60 DAS ( $N_{60}$ ) and nipping @ 90 DAS ( $N_{90}$ ) with row-to-row spacing @ 45 cm ( $S_{45}$ ), 60 cm ( $S_{60}$ ), 75 cm ( $S_{75}$ ) and 90 cm ( $S_{90}$ ). The results showed that, early nipping (45 to 60 DAS) and wider spacing (75 to 90 cm) was very much effective for good crop canopy and productivity (leaf area index of 5.36) which can be addressed as a solution to the marginal pigeonpea farmers of Tripura for

  
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## THE VALUE OF NON-TIMBER FOREST PRODUCTS (NTFPs) IN PROMOTING INDIA'S RURAL LIVELIHOODS

Sujoy Hazari<sup>1\*</sup>, Mamoni Kalita<sup>1</sup>, and Biswajit Lahiri<sup>2</sup>

<sup>1</sup>Faculty of Management and Commerce, The ICFAI University, Tripura, Kamalghat, India-799210

<sup>2</sup>Department of Extension and Social Sciences, College of Fisheries, Central Agricultural University (Imphal), Lembucherra, Agartala, Tripura, India-799210

Received: 23 August 2021, Revised: 13 April 2023, Accepted: 19 September 2023

THE VALUE OF NON-TIMBER FOREST PRODUCTS (NTFPs) IN PROMOTING INDIA'S RURAL LIVELIHOODS. Non-timber forest products (NTFPs) are biological elements other than wood that are usually collected from forests for human and animal use and have both a consumptive and an exchange value. NTFPs provide a major contribution to the livelihood and health of the poor. The article aims to describe the present condition of NTFPs and marketing issues for NTFPs in India, as well as their importance in improving rural livelihoods. A systematic research review approach was used to get the desired results. The study retrieved approximately 238 articles from different databases and filtered 191, highlighting 51 articles related to the keywords, published between 1988 and 2022 were included in the analysis. During the investigation, forty-one numbers of NTFPs were identified and documented, and numerous potential NTFPs for enterprise growth have been identified according to the different zones of India. Rural people are using NTFPs for a wide range of uses, including food, fodder, fibre, traditional medicine, domestic items, agricultural equipment, and construction materials, and many of them are linked to cultures. Promotion and domestication of NTFPs, as well as suitable policy frameworks for harvesting and better processing techniques, are all required for increased food security, poverty reduction, and improved livelihoods. Site-specific and species-specific strategies may be created for the preservation, management, and exploitation of NTFP resources. NTFPs play a significant role in improving rural livelihoods in India, as well as providing a valuable source of employment for rural residents, though it has a complex marketing system.

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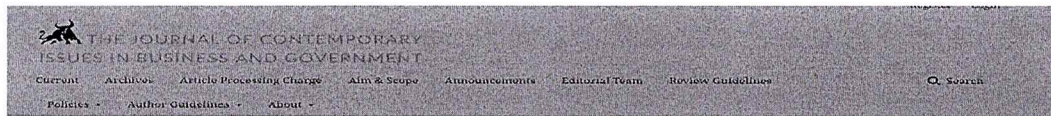
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### The Scenario of National Thermal Power Corporation Pre and post Disinvestments - A paired t test analysis

Mukesh Kumar Gupta<sup>1</sup>, Gokul Acharjee<sup>2</sup>, Abhijit Pandit<sup>3</sup>, Harendra Kumar<sup>4</sup>

<sup>1</sup>Ph.D. Scholar, AIBS, Amity University, Noida, UP 201304

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#### Abstract

According to the global restructuring trend, the reform and restructuring process in the Indian electrical industry has been ongoing since 1992. This paper describes the current state of the Indian power industry and highlights the government's recent restructuring efforts and policies. Several essential parts of the reform agenda have been executed with differing degrees of success in various Indian states. A reorganization concept for UPPCL is offered. If necessary, this model may be implemented at the national level with appropriate revisions. Many developing and transition nations have implemented market-oriented reforms in their electric power sectors since about 1990. Despite extensive use of a uniform policy model, reform procedures and results have often fallen short of expectations. This study examines common elements of non-OECD electrical reforms and reassesses reform programs and underlying assumptions based on a comprehensive literature analysis and case studies in Asia, Africa, Latin America, and Eastern Europe. In contrast to the sector-focused policy aims of deregulation in OECD nations, non-OECD changes are shaped by national fiscal crises, macroeconomic reforms, and lobbying by international lenders. It also emphasizes reform's reliance on recouping foreign money and, as a result, its susceptibility to fluctuating international financial circumstances. A wide variety of non-OECD reform experiences show that a restricted emphasis on finance and cost recovery, when implemented rigidly, typically leads to poor outcomes. According to the study, strengthening reform would need a larger range of goals, such as service supply, public benefits, effective regulation, and social-political legitimacy. Reforms must, above all, be founded on realistic evaluations of national needs and capacities.

**Keywords:** restructuring, reform, OECD, regulation, electrical industry

#### Introduction

The National Thermal Power Corporation Ltd. (NTPC) was incorporated in November, 1975 as a Central Generating Company with the objective of planning, promoting and organising the integrated development of thermal power generation and execution of thermal power projects and associated

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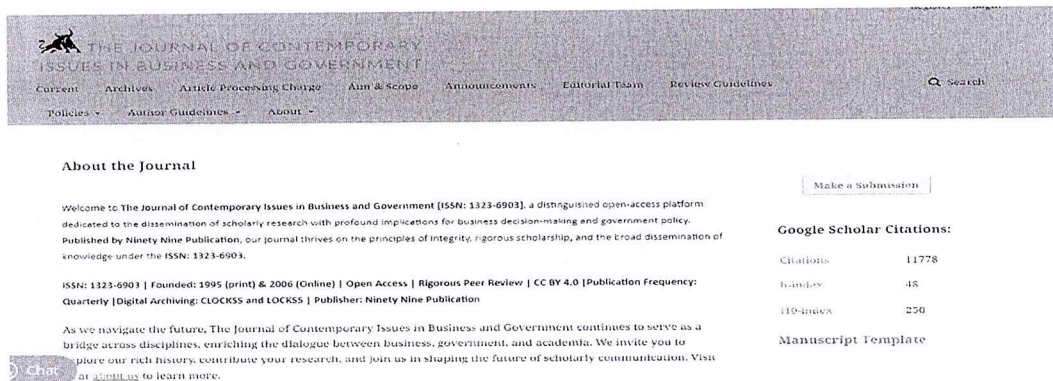


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### The Scenario of National Thermal Power Corporation Pre and post Disinvestments - A paired t test analysis

Mukesh Kumar Gupta<sup>1</sup>, Gokul Acharjee<sup>2</sup>, Abhijit Pandit<sup>3</sup>, Harendra Kumar<sup>4</sup>

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According to the global restructuring trend, the reform and restructuring process in the Indian electrical industry has been ongoing since 1992. This paper describes the current state of the Indian power industry and highlights the government's recent restructuring efforts and policies. Several essential parts of the reform agenda have been executed with differing degrees of success in various Indian states. A reorganization concept for UPPCL is offered. If necessary, this model may be implemented at the national level with appropriate revisions. Many developing and transition nations have implemented market-oriented reforms in their electric power sectors since about 1990. Despite extensive use of a uniform policy model, reform procedures and results have often fallen short of expectations. This study examines common elements of non-OECD electrical reforms and reassesses reform programs and underlying assumptions based on a comprehensive literature analysis and case studies in Asia, Africa, Latin America, and Eastern Europe. In contrast to the sector-focused policy aims of deregulation in OECD nations, non-OECD changes are shaped by national fiscal crises, macroeconomic reforms, and lobbying by international lenders. It also emphasizes reform's reliance on recruiting foreign money and, as a result, its susceptibility to fluctuating international financial circumstances. A wide variety of non-OECD reform experiences show that a restricted emphasis on finance and cost recovery, when implemented rapidly, typically leads to poor outcomes. According to the study, strengthening reforms would need a larger range of goals, such as service supply, public benefits, effective regulation, and social-political legitimacy. Reforms must, above all, be founded on realistic evaluations of national needs and capacities.

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## A Glaring Rise of Fin-Tech Industry in India: A Critical Assessment In The Light of Osaka Declaration 2019

Arkajit Debnath\* & Dr. Raghunath Chakraborty\*\*

### 1.Introduction

Indian Fintech Industry is anticipated to emerge as a global powerhouse driven by young and tech-savvy population, affordable mobile devices, and government led initiatives and other strategic advancements<sup>1</sup>. Then recent achievement of digital rupee that surpasses one million daily transactions led to the inclusion of CBDC (Central Bank Digital Currency) in the annual Financial Budget of India.<sup>2</sup> This particular stroke of the Indian Government craves the optimistic outlook that specifically attributes the major initiatives like Bharat Net which aims to bridge the digital divide within the Indian Population. The persistent increase of Digitalization is catalysing the technological advancements, regulatory reforms and a commitment to financial inclusion. In this pretext, there is a legitimate expectation that the upcoming budget of 2024 will showcase the government's vision especially in the payment infrastructure and digital progression.

Indian Payment infrastructure is gradually folding within the fabric of digital payments. The digital payment market of India is evolving rapidly and captured the eyes of big nations with big markets<sup>3</sup>. The nascent stage of financial empowerment initiatives was entirely channelled by the Government of India through the banking system. While banks are still the vehicles for the financial empowerment, yet fintech has played a dominant role in two areas; firstly, rapid delivery of financial

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\*\* Assistant Professor, ICFAI Law School, ICFAI University, Tripura.

<sup>1</sup> Tanfeeque A Siddiqui and Kashif I Siddiqui, 'FinTech in India: An analysis on impact of telecommunication on financial inclusion' (2020) 19(3) Strategic Change 321. <<http://dx.doi.org/10.1002/jsc.2531>> accessed 8 March 2024.

<sup>2</sup> Shubham Kakran and Arpit Sidhu, 'An Eclipse of Virtual Digital Currency in India: An Updated Review With Union Budget 2022-23' (2023) 48(3-4) Research Bulletin 1. <<http://dx.doi.org/10.33516/rb.v48i3-4.1-13p>> accessed 8 March 2024.

<sup>3</sup> Parul Munjal and DEERGH SHAARMA, 'Determining the Key Drivers of Fintech Adoption in India' (2023) 1(1) International Journal of Process Management and Benchmarking 1. <<http://dx.doi.org/10.1504/ijpmb.2023.10054604>> accessed 8 March 2024.

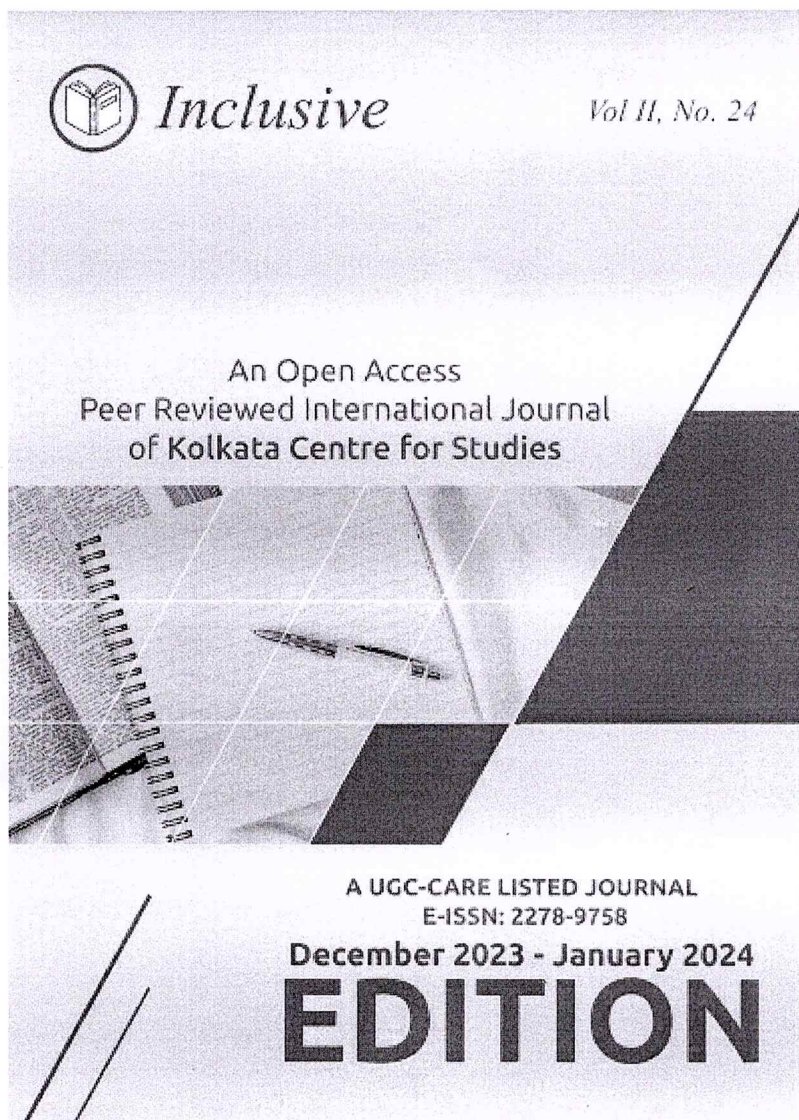




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**Financial Illiteracy deficits Financial Inclusion: An Emerging Chaos in Financial Sectors of India and China**

Arkajit Debnath and Raghunath Chakraborty

**Abstract**

*This paper will address impact of India and China's Financial inclusion policies in accordance to their present legal framework. India's working schemes on digital inclusion are a widespread success. The proliferation of cyber-attacks is symbolic to the deficiency in Financial Literacy within the Indian legal framework. This paper will also assess the correlation between financial literacy and financial inclusion effecting the growing economy of India and China. Lastly the paper will attempt to analyse the financial literacy notions with some suggestive measures.*

**Introduction**

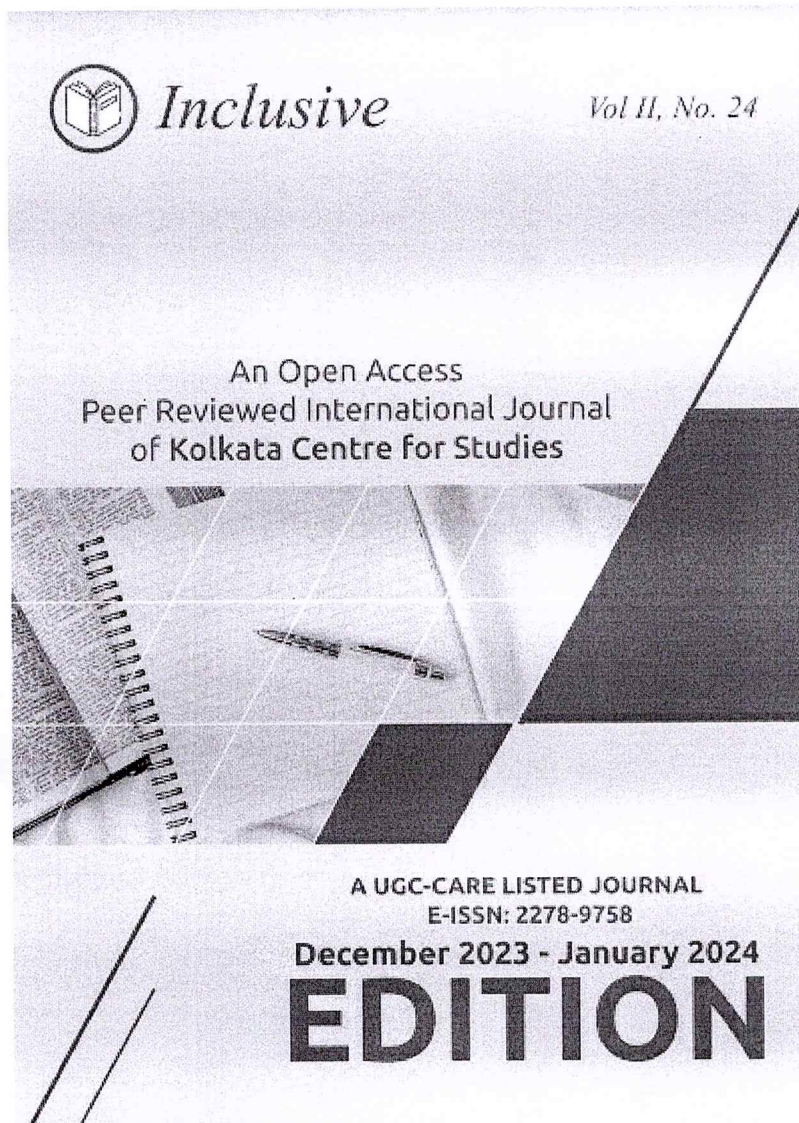
An inclusive financial services system is crucial for the holistic development of an economy. It allows the underprivileged in a country to access financial products, services, and credit facilities, thereby facilitating their social upliftment (Arora 2017, p 52). Access to financial products and services is crucial for individuals to enhance their daily lives. By utilising savings, credit, and insurance, people can work towards achieving their long-term aspirations, such as launching and growing a business, investing in education and health, and building a safety net for unexpected situations. This ultimately leads to an overall improvement in their quality of life. As per the OECD, financial Inclusion is defined as the goal is to facilitate affordable, timely, and sufficient access to regulated financial products and services, as well as expand their use across all segments of society (Zaidi, Hussain, and Uz Zaman 2021, p 2). The financial inclusion strategies in India and China demonstrates a robust approach. The Indian government has implemented various schemes to facilitate digital banking, insurance services, and housing allotments (Singh and Pande 2023, p 7). As a result, people are increasingly embracing these digital platforms to access government facilities and participate in the financial ecosystem. In 2015, the Chinese Financial System officially incorporated the financial inclusion model into its national strategies. In 2016, the Chinese Government officially endorsed a plan to advance



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**Data Politicalization Landscapes: an Untoward Hegemony in India and China's Data Governance Framework**

Puranjan Prasad Paul and Anindita Choudhury

"The best way to get a bad law repealed is to enforce it strictly"

- Abraham Lincoln

**Abstract**

*This paper will evaluate the political impact of India and China's data localisation policies and framework. India's different standpoint on data localisation seems to reflect the political scenario that persists in India, especially after their non-participation in the Osaka Declaration of Digital Economy owing to the predicament of WTO Agreements. This paper will also address the recent premise of data localisation in India and China under the pretext of the global perspective. Lastly, this paper will make a courteous attempt to analyse data localisation notions with some positive measures that can be taken in this regard.*

**KeyWords :** Data Localisation , Digital Economy , Indian Perspective , Chinese Standpoint

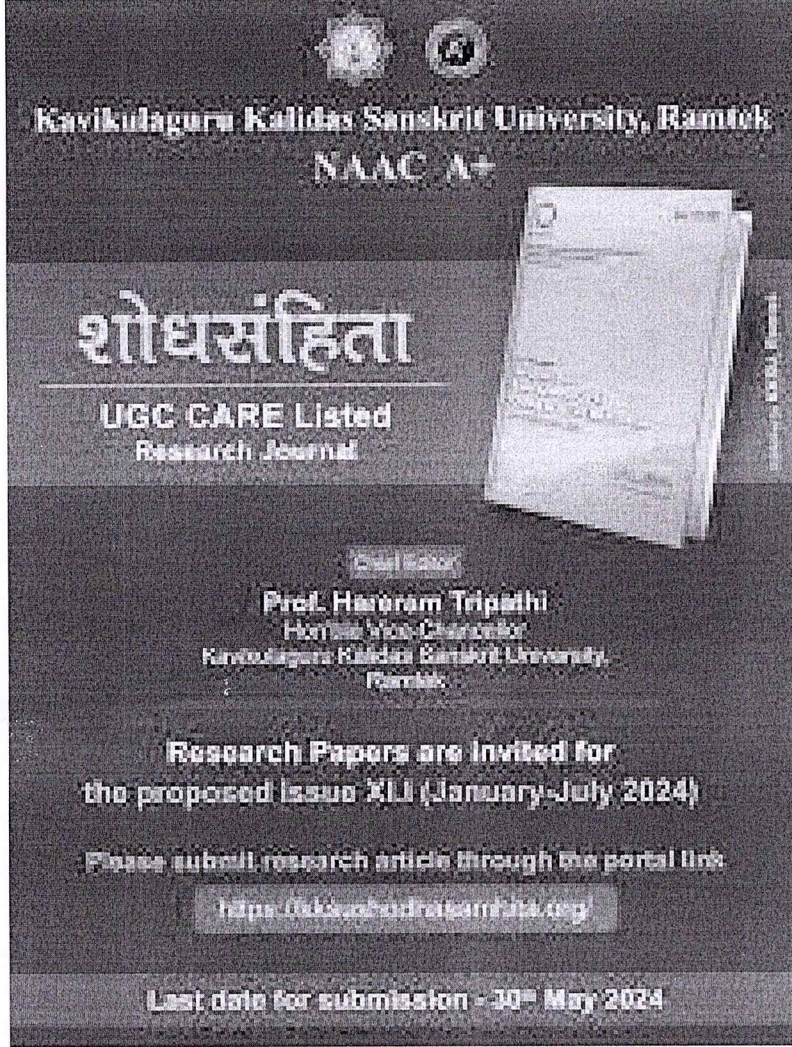
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DATA LOCALISATION DILEMMAS : NAVIGATING THE INTERSECTION OF  
ASEAN'S DIGITAL ECONOMY AND FINTECH

Puranjan Prasad Paul<sup>1</sup>  
Dr. Anindita Choudhury<sup>2</sup>  
ICFAI LAW SCHOOL, ICFAI UNIVERSITY TRIPURA<sup>1,2</sup>

**Abstract:** Seamless Data flow across borders is a 'res integra' of the digital world that is perhaps the modern normative reflection of the old concept of Indian Culture "Vasudeva Kutumbakam-One World One Family". Most Financial technology applications require seamless data flow across borders for flawless service efficiency. Still, Cross-border Data flow subdues the informational secrecy of the individuals, which in turn holds a sanctity within the fetters of the constitutional framework. ASEAN Countries paved the shining rays of the digital economy into their data governance framework through impeccable initiatives in this regard, especially the ASEAN Master Plan 2025, which put particular emphasis on the robust growth of the digital economy by 2025. This paper aims to evaluate the resonance of the digital economy within the ASEAN countries, along with the implications of data localisation principles. This paper is a courteous attempt to devise suggestive measures to harmonise data localisation's positive and negative aspects.

**Keywords:** ASEAN Countries; Data localisation; Digital Economy; Economic Integration  
*A. Introduction*

The digital economy is the economy's area driven by the billions of daily online interactions between individuals, businesses, devices, data, and processes. Hyper-connectivity, or the increased interconnectivity of people, organisations, and machines due to the Internet, mobile technologies, and the Internet of Things (IoT), is the foundation of the digital economy.<sup>1</sup> South Asia's Digital economy is one of the foremost success tales in the In 2019, the region's internet economy surpassed \$100 billion, representing a threefold increase in just four years. ASEAN has strong fundamentals to support the long-term development of the digital economy, including a growing young and tech-savvy population, increasing industry digitisation, and strong consumer demand for e-commerce.<sup>2</sup> Much more work is required to ensure that ASEAN can attain the projected \$300 billion internet economy in five years, particularly in data governance. Data has arguably become the most valuable asset, essential to the public and private sectors due to its actual, quantifiable value and widespread application.<sup>3</sup> Taking advantage of global-scale data infrastructure directly or indirectly has enabled cross-border economic activity, allowing enterprises to access traditionally inaccessible markets. Digitisation of economics and international trade increases access to information and enables markets to function more efficiently, thereby increasing efficiency and productivity. In the past decade, global data transmissions have increased by 45 times. By 2025, it's estimated that 463 exabytes of data will be created each day globally – that is more than the production of 2 million DVDs per day.<sup>4</sup> When data contributes more to economic growth, member states must establish a solid foundation of business-friendly, progressive data governance policies promoting secured cross-border data flows. This conjecture imbibes the vital aspect of data

<sup>1</sup> Shi, Yongjiang, Yibo Gao, Yining Luo, and Jialun Hu. "Fusions of Industrialisation and Digitalisation (FID) in the Digital Economy: Industrial System Digitalisation, Digital Technology Industrialisation, and Beyond." *Journal of Digital Economy* 1, no. 1 (June 2022): 73–88. <https://doi.org/10.1016/j.jdec.2022.08.005>.

<sup>2</sup> Kim, Jeong-Gon. "The Digital Economy in Southeast and South Asia: Towards Mutually Beneficial Cooperation with Korea." *SSRN Electronic Journal*, 2020. <https://doi.org/10.2139/ssrn.3889119>.

<sup>3</sup> Kingsbury, Damien. "The Political Economy of Cross-Border Relations." *South East Asia Research* 11, no. 3 (November 2003): 269–96. <https://doi.org/10.5367/00000003772657373>.

<sup>4</sup> French Conan, Carr Bred, Lowery Clay, "Data Localisation : Costs , Tradeoffs , Impact across the economy" , Institute of International Finance , December 2020

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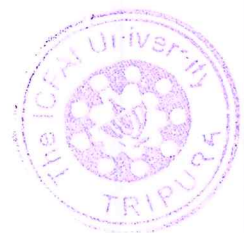
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# Assisted Human Reproduction- A Comparative Analysis in Selected Jurisdictions

Chhanda Bhowmik\* & Dr. Anindita Choudhury\*\*

*[Advancements in ART, entails creating ovarian stimulation protocols utilizing different substances in the follicular, mid-cycle, and luteal phases of the menstrual cycle. Advancements have been made in embryo culture conditions, transvaginal ultrasound usage, and cryopreservation of surplus embryos, transport IVF, and oocyte or embryo donation. Advancements have been made in embryo transfer techniques. Throughout history, there has been a divergence of opinions on infertility. Legislating procedures is difficult due to diverse viewpoints and fast technological progress. The 1976 International Covenant on Economic, Social, and Cultural Rights recognizes the right of all individuals to enjoy the advantages of scientific advancements. ART regulations in different countries frequently restrict access and financial assistance for individuals seeking these services. Each country has unique perspectives on the legal, regulatory, and procedural aspects of Assisted Reproductive Technology (ART). Thus this paper focuses on the implementation, availability and progress of assisted reproductive arrangements in three selected jurisdictions].*

The birth of the world's first child in 1978 was made possible through the utilization of in vitro fertilization (IVF), an aided reproductive technology (ART), in England. In the early 1980s, there were initiatives undertaken to consistently improve the clinical practice of in vitro fertilization (IVF). Several advancements have been made in the field of assisted reproductive technology. Throughout history, there has been a divergence of opinions among experts, researchers, individuals, and religious groups regarding the phenomenon of infertility. The task of effectively enacting legislation pertaining to procedures has proven to be arduous, mostly due to the presence of divergent perspectives and the swift advancement of technology. Throughout history, the Catholic Church has continually expressed opposition towards Assisted Reproductive Technologies (ART). Consequently, countries with deep-rooted Catholic traditions, such as Italy and Ireland, encounter challenges in implementing legislation pertaining to these technologies. The International Covenant on Economic, Social, and Cultural Rights, established in January 1976, asserts that all individuals possess the entitlement to reap the advantages of scientific progress. The rules and regulations pertaining to Assisted Reproductive Technology (ART) in different

countries often impose restrictions that hinder universal accessibility and financial assistance for individuals seeking such services. Each nation possesses its unique perspective on the laws, rules, and processes that regulate Assisted Reproductive Technology (ART). The present chapter focuses on a comparative review of the practice, access, advancement, and prospects of assisted reproductive arrangements in four selected jurisdictions. This is done in recognition of the worldwide nature of assisted reproductive technology.

## UK & Assisted Human Reproduction

Regulation of AHR has been implemented in the United Kingdom (UK) for a duration exceeding 25 years. In the United Kingdom, the field of assisted human reproduction (AHR) is governed by three key legislations: the Surrogacy Arrangement Act of 1985, the Human Embryology and Fertilization Act of 1990, and the Human Reproductive Cloning Act of 2001. The establishment of the Human Fertilization and Embryology Authority (HFEA) took place in 1991. The legislation in the United Kingdom prohibits the practices of cloning, cross-species embryo transfer, and gene editing, as outlined in the Assisted Human Reproduction (AHR) legislation. Sex selection for non-medical purposes, surrogacy, the utilization of donated eggs and sperm, and the cultivation of an embryo beyond a 14-day period outside the confines of the human body are all illustrative instances of these

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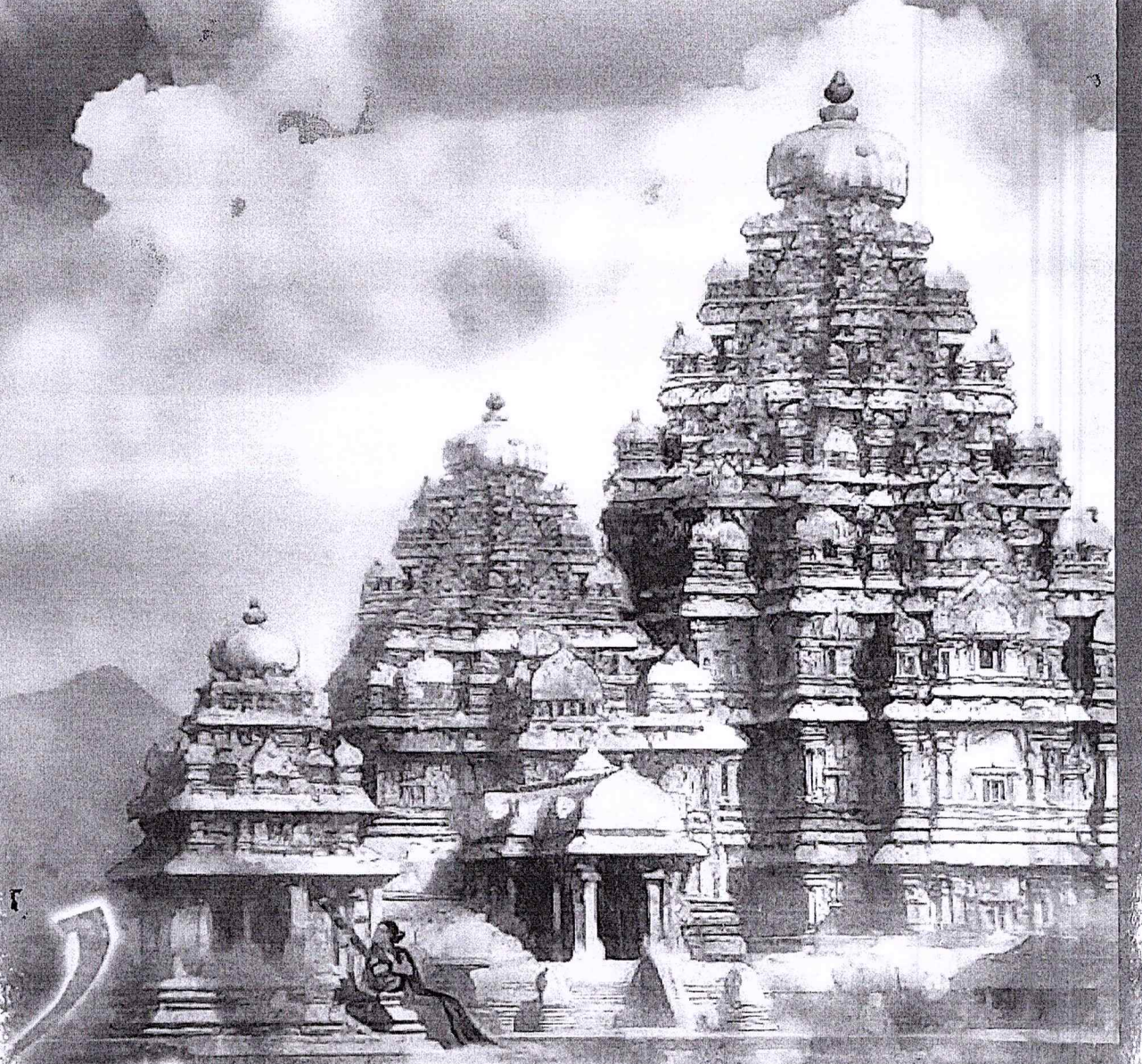




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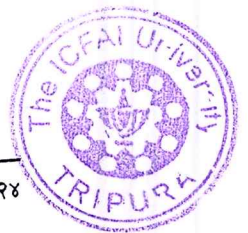


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# The Intention Doctrine & Best interest of Child in the Domain of ART

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*The increasing breadth of parenting has created a quandary regarding the ideal wellbeing of the kid and the wider obligations of parenting, as well as how to efficiently handle these obligations. There are numerous experts that oppose the new parenting style that deviates from the traditional concept of parenting, while others endorse the new parenting alternatives as a means of providing equitable opportunities for everyone. This paper will analyze the new scope of parenting in relation to the wellbeing of the kid, taking into consideration the intention theory. This study will explore the theory of the best interest of the child within the setting of Assisted Reproductive Technology (ART).*

### Introduction:

The growing availability of reproductive technology has broadened the possibilities for parenthood, contingent upon one's access to such technology. The expanding scope of parenting has led to a dilemma about the optimal welfare of the child and the broader responsibilities of parenting, and how to effectively manage these responsibilities. The perplexity arose from the disparity resulting from long-held biases towards the heterosexual family structure and society's current inclination to establish family dynamics through contractual agreements and deliberate choices or intentions. As the social system has advanced, many forms of parenting have been steadily introduced over time. An example of such parenting is adoption, which involves a

formal agreement between the state and the intended parent. Similarly, technological progress has introduced several forms of parenting which go beyond the constraints of reproduction through sexual intercourse between heterosexual couples. The reproductive technology has resulted in the fragmentation of the unified process of procreation into distinct stages of coitus, conception, and gestation. This, in turn, introduces uncertainty into our existing notions of parentage. The use of ART adds complexity to the situation. In cases where multiple unrelated individuals contribute to the creation of a child; these individuals may be either known or unknown to each other. As a result, unique and distinct problems arise in both scenarios, leading to various normative claims regarding their status as parents or co-parents and the best interest of the child. When a married heterosexual couple chooses to utilize this technology, there is no confusion or doubt regarding the kid's best interests, as it does not disrupt or alter the established societal norm of having a child from a married heterosexual marriage. The sole modification here is in the implementation of the technology. The conventional notion of parenting posits that the mother is the individual who gives birth, while the father is the spouse of the mother. However, ART has caused significant shifts or tectonic changes in the conventional notion of parenting and the recognition of maternal and paternal



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2. Front Page of the research paper:





R-41

## Wearable Technology Offshoots Digital Surveillance in India : An Emerging Enigma of Information Technology

Puranjan Prasad Paul, Anindita Choudhury

### Abstract:

India has become increasingly receptive to wearable device technology, and the Indian market for such devices experienced a compound annual growth rate of 26.33 per cent, placing it as the third largest market worldwide. Conversely, surveillance constitutes as the dystopian concerns that eventually transit into Digital surveillance issue that approaches the Supreme Court of India. However, as technological dependence increases, mainly through peripheral technology following the COVID-19 pandemic, digital surveillance began to permeate all aspects of an individual's life and progressively infringed upon their right to privacy. In their cross-sectional study, a distinguished researcher disclosed that among the 495 responses received, 50.3% falls within the age group of 25 and 50, and 51.3% were from low-income households. The substantial portion of participants indicated the utilisation of wearable smart devices for their health concerns (62.2%), with

### Introduction:

The 'digital revolution' that occurred during the late 20th and early 21st centuries profoundly impacted almost every facet of human activity. It has achieved this by facilitating the modes of exchange, accessibility, sharing and processing of information on a large scale that was previously inconceivable. The virtual web has profoundly impacted how individuals globally engage in their professional, social, consumer endeavours and also the exchange of communication between the public utility services and institutions. Significant advancements in intelligence-gathering efforts by states have accompanied the ostensibly irreversible shifts in communications. The nation of Internet of Things (IoT) and Internet of Bodies (IoB) yields a magnanimous market of Smart wearables especially after the outbreak of Covid-19 Pandemic. The People across the globe relies in the wearables that grandeurs the collection of personal, financial, health and Sensitive data of the users.

The inception of digital India has brought about a significant transformation in the conventional notion of state surveillance, encompassing changes in its methods and the mode of collection of data it seeks. In broad terms, state surveillance includes the activities of a government in monitoring, collecting, and/or processing personal data. The conventional notion pertains to state surveillance as an facet of centralised governing body, as shown by well-known metaphors like Orwell's (1983) "Big Brother" or Foucault's (1976) interpretation of the "Panopticon". Furthermore, it is conventionally associated with a certain sense of doubt and centres its attention on the substance of communication. The legitimacy of digital surveillance in the context of data misappropriation by the data intermediaries dealt with the wearable technology acts as a juxtaposition of state actions under the aegis of digital governance framework. Some suggestive measures has to be taken so as to create a proportionate balance between digital dependency of wearables with that of the legitimacy of digital surveillance by data intermediaries or by an agent and instrumentality of the state.

In Final Sense: "Digital Surveillance refers to and encompasses the

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- ❖ **Red Sea Crisis**
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## Assisted Reproductive Technology Law in India- an Enigma between Individual's Right and Best Interest of Child

Mrs. Chhanda Bhowmik\* & Dr. Anindita Choudhury\*\*

*The modern approach to reproductive rights prioritizes safeguarding individual reproductive rights rather than exclusively concentrating on the rights of couples. The ICPD, 1994 is of utmost importance in this context, with its main aim being to support couples and individuals in achieving their reproductive goals and providing them with full independence in exercising their right to procreate. Nevertheless, the current legislation governing assisted reproductive technologies in India still provides room for discrimination. The main socio-legal concern stems from the need to protect the well-being and entitlements of children. The UDHR specifically declares that all children, irrespective of their parents' marital status, have the right to receive social support. In India, where there are no restrictions on procreation through sexual intercourse, the regulation of non-coital procreation can be more efficiently managed by assigning parental responsibility to intended parents. This task should be undertaken with due regard for individuals' reproductive rights and the protection of the future child's welfare. Nevertheless, in India, the legislation concerning reproductive rights is discriminatory as it imposes limitations on those other than married infertile couples, thereby restricting their access. This research aims to examine the discriminatory legislation in India that give rise to socio-legal infertility. The aim of the study is to identify the deficiencies in current legislation on ART in India and propose a solution that achieves a balance between reproductive quality and the protection of children's rights, through an analysis of the laws in certain jurisdictions.]*

Procreative liberty comprises the freedom to make choices regarding reproductive decisions, including the decision to have children, and the ability to control decisions about when, with whom, and how to conceive. Throughout history, individuals and couples have consistently encountered the enduring challenge of infertility. Nevertheless, because of developments in medical science, infertility can now be more readily addressed. Moreover, societal shifts have redefined the notion of family creation, and the role of a parent can now involve diverse aspects such as gestational parenting, pregnancy-related parenting, and the act of adopting. Considering the changing landscape of procreative liberty, it can be contended that

both males and females should have the right to exercise their individual reproductive freedoms. Medical research has made significant advancements in assisted reproductive technology to treat both medical and social causes of infertility. This technology has greatly diminished the conventional notion of human procreation, which was primarily dependent on sexual intercourse occurring exclusively within the institution of marriage. Reproductive Self-Determination refers to the independence of each person to make unrestricted choices regarding procreation. Reproductive autonomy encompasses all the expanding aspects of reproductive rights. Reproductive self-determination encapsulate the entitlement of both men and women to get comprehensive information regarding safe, efficient, inexpensive, and culturally appropriate family planning methods of their preference. It also entails ensuring that individuals have the necessary resources to exercise their

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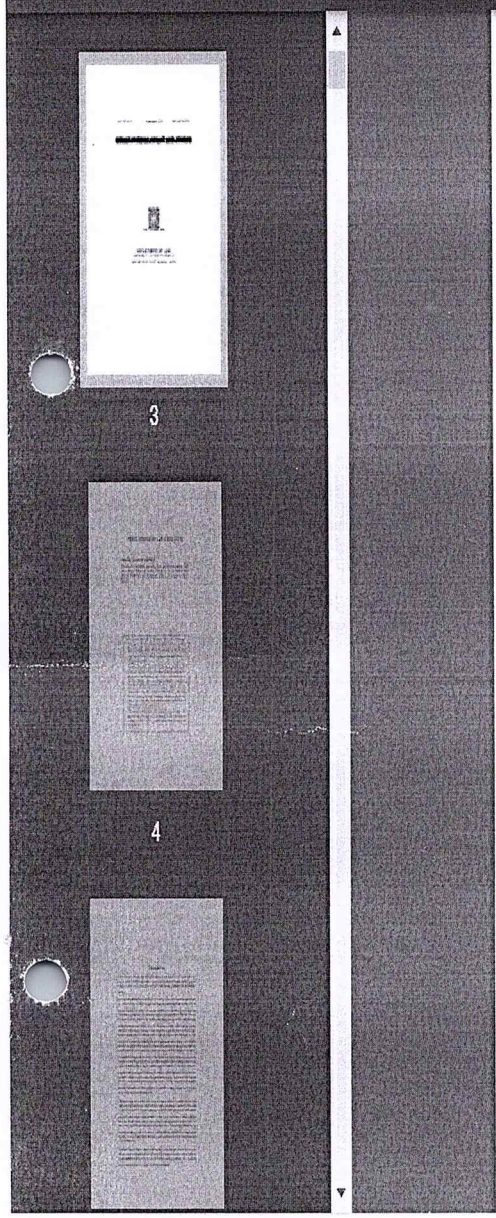
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## The Efficacy of Doctrine of Precedent: Analysing of the Common and Civil Law Countries with Reference to India

Dr. Paramita Dhar Chakraborty<sup>1</sup>

Dr. Bibhabasi Misra<sup>2</sup>

### Abstract

The famous jurist Salmond, explained precedent as ounce of gold in tons of unnecessary material in a Judgement. He opined; the legislations are coins ready to be used in a realm. Precedents are creative interstitial (filling up gap in legislation and declaring guidelines in absence of legislations) law making by the Judges, which are flesh and blood in a statutory skeleton. Precedents are primary source of law, in the common law countries like India.<sup>3</sup> However in Civil law countries, as for example in continental Europe, precedents are not as strong as in common law countries. In Civil law countries, as for example in France, there are exhaustive codes, like French Criminal Procedure Code. Judges in Civil law Countries most of the time need not to be creative as in common law countries. The main sources of law in Civil law countries, as for example in France, are legislations, edicts of Courts and Juristic opinion. The edicts of Court, rarely has values of precedent. Though Higher Courts' jurisprudence needs to be followed by the lower Courts. In common law countries, it is a pain to identify the precedent/ obiter dicta in a voluminous Judgment. In Civil law Countries, there is no such pain, as judges are hardly expected to interpret. They are expected only, to apply the law to a fact. A comparative analysis of doctrine of precedent, in Common law Countries and Civil law countries, are worthy of analysis, as it will help us to iron out creases in our legal systems, and we can incorporate the beneficial qualities from the Civil legal system.

**Key Words:** - Constitution, Doctrine of Precedent, law making by judges, Civil and Common law system.

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<sup>2</sup> Associate Professor, Department of Law, ICFAI University, Tripura.

<sup>3</sup> Article 141 of the Indian Constitution.



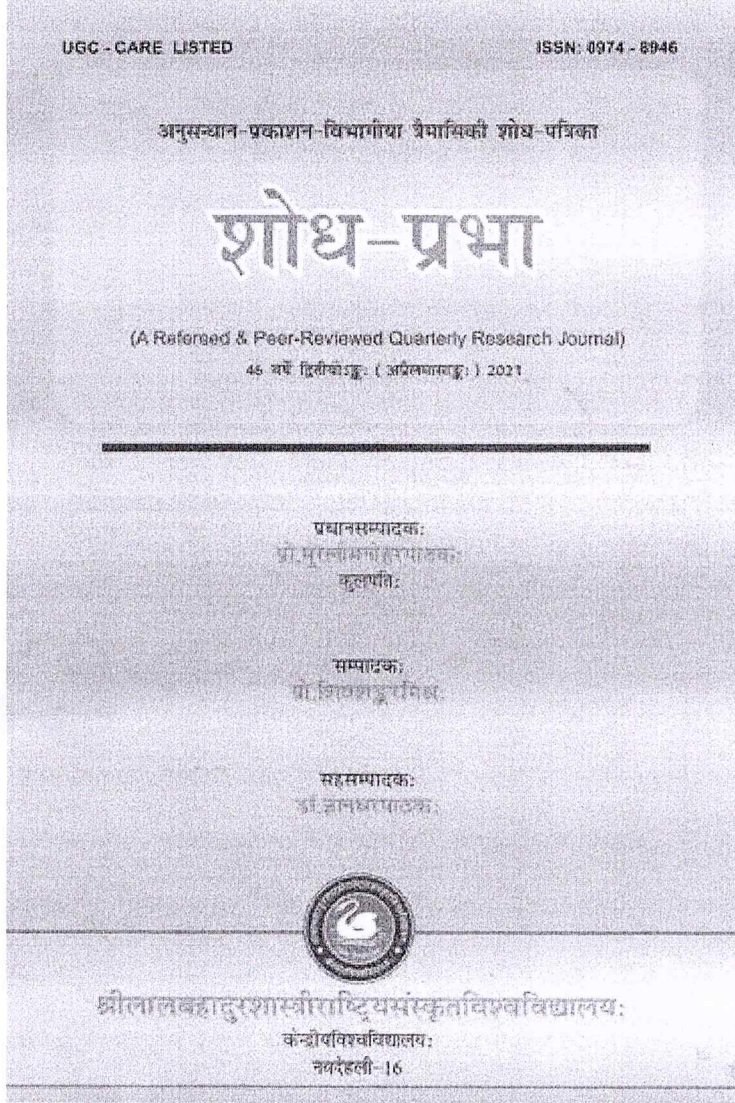


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### "ACKNOWLEDGING THE ENTITLEMENT OF REPRODUCTIVE CHOICE OF WOMEN AS A FUNDAMENTAL RIGHT: ISSUES AND CHALLENGES"

Dr. Anindita Choudhury Assistant Professor, Faculty of Law, The ICFAI University Tripura

#### Abstract:

As the women share almost half of the Country's population, all aspects of female development are at the heart of national concern. Welfare of women is not just limited to equal guarantee of entitlement to women but even more than that due to their unique contribution of the human society in context of procreation. One of the essential aspects of a holistic Constitutional philosophy is, therefore, women's choice to have children or their reproductive liberty, which is often being witnessed to be ignored.

Keywords: Welfare, National Concern, Reproductive liberty, procreation.

#### Introduction

*"Every second, every day, every year, we fail to address demand for reproductive health and family planning services. Lives are lost, and girls' opportunities to thrive and contribute to their country's development shrink. These are real people".*

Jenny Shipley

As a social value, women's reproductive health continues to be a highly valued legal and political objective on a national and worldwide scale. A woman's right to reproductive health is based on society norms. Reproductive rights are relatively new idea that are fighting in most countries' constitutions for autonomous recognition. The concept of reproductive rights originated from a far broader and widely recognized feminist value: a woman's right to procreate. In its literal definition, reproductive liberty refers to a person's ability to freely and responsibly choose how to exercise their right to procreate. The word liberty opposes any form of unjustified interference with the realization of a person's rights, whether it is from a third party or a state action.

Procreative liberty, or reproductive choice, is one of the numerous gray areas that women have always had to deal with. However, in the absence of a strict government framework protecting women's rights, this belief remains unfounded. The term "reproductive choice" refers to a woman's freedom to control her own fertility without unwelcome interference or imposition from the government or any other party. If the reservation policy and gender equality tenets of the Constitution fail to guarantee equal participation and realization of women's rights, it would be naive to assume that she is capable of fighting for more important rights, such as reproductive choice, which the men's society has a stake in defending. The hope is that the legal system of a nation would recognize the importance of women's reproductive choice as a separate issue from general health and medical assistance, even if it does not currently consider it an unremunerated individual fundamental right.

Reducing women's reproductive choice and reproductive health within the generalised ambit of general health and medicine can have severe impact upon the overall realisation of the fundamental freedoms and basic human rights of women, since all human rights are interdependent and interrelated and can not be appropriated independently. When women fail to enjoy reproductive choice, it ultimately ends up with violation of several other fundamental freedoms and human rights of women. The proposition is evident from the fact that still date nation struggles with high mother's mortality rate, infant mortality rate, abortion related constraints and complexities, growth of cases of caesarean delivery, increasing number of fertility related cases among women, issues with women's sexual and reproductive health etc. Apart from this, failure of acknowledging women's reproductive choice has severe social impact as well. The common mass often miss-perceives women as a mere *human breeder* that ultimately corrupts the mentality of the society leading to indulgence in gender



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2. Front Page of the research paper:



R-45

## Study of conceptual development of penology in different countries including India: A critical analysis

Dr. Kabita Chakraborty

Professor, ICFAI Law School, ICFAI University, Tripura, India

Corresponding Author: Dr. Kabita Chakraborty

### Abstract

During the evolutionary stages of human society, there we observed the number of conflicts between the people particularly with the growth of science and technology. Once it was felt to regulate these relations otherwise crime would be the inevitable result in the society. Punishment is historically the primary tool to keep the nation free from crime or in other words under control. There are some traditional theories relating to punishment of the offender. Though initially the purpose was either to give severe punishment so that there might be creating a frightful environment as a result of which no one would be dared to do any crime. In this article the researcher is trying to evaluate the different forms of punishment available in different countries.

**Keywords:** Punishment, crime control, society, restorative, preventive, countries, reformative

### Introduction

Dignity and sensibility are the most important elements, which create the human being as the best creature of the world. An individual can be assessed by his working-propensity and sense of life. The term "karma" and the consequence are the two sides of a same coin. The crime tendency in an individual has a negative impact not only on his own characteristics but also over the society. Punishment is that moral weapon through which such tendencies can be deterred or protested, it introduces a system of penology as a vast jurisdiction of criminal law. During the beginning of civilized living the moral values are determined through some code of conduct under the influence of religious customs, the violation of which creates the crime and the person involved on that, labeled as offenders. Among those age groups, criminal behavior was seen as a morally wrong action that warranted punishment.

Now the question is whether penology and punishment are same thing or not, actually penology is a vast procedure which dictates the evaluation and utilization of punishment on the basis of formal and systematic codification against the offender. It is basically a multidisciplinary subject, the content of which is not only limited with the mere declaration of applicable penalty, but also assess the features and effectual impact of such penalty in cessation of offensive tendency.

The term 'penology' originates from the Latin word "poena," which conveys the idea of penalty or punishment for individuals who commit wrongdoing. It is a theoretic approach of penal system. Italian criminologist Cesare Beccaria firstly introduced the term penology with a view to establish a larger scope of it, according to him, the justification of criminology is not only limited within the punishment of offenders, but also for the determent of potential criminals. Penology is basically a systematic study relating punishment, which has a great impact on future crimes, criminals and society.

**Beau and Flew** outline several key aspects related to punishment:

- Punishment entails the experience of discomfort, and its outcomes are typically regarded as unpleasant.
- It must be for an offence of violating legal rules.
- It is directed at the individual who has committed the offence.
- It is enforced by a legitimate authority within the legal framework.

In *Santa Singh v. State of Punjab*, the Supreme Court observed that "penology regards crime and criminal as equally material when the sentence has to be awarded. It turns the focus not only on the gravity or nature of the crime

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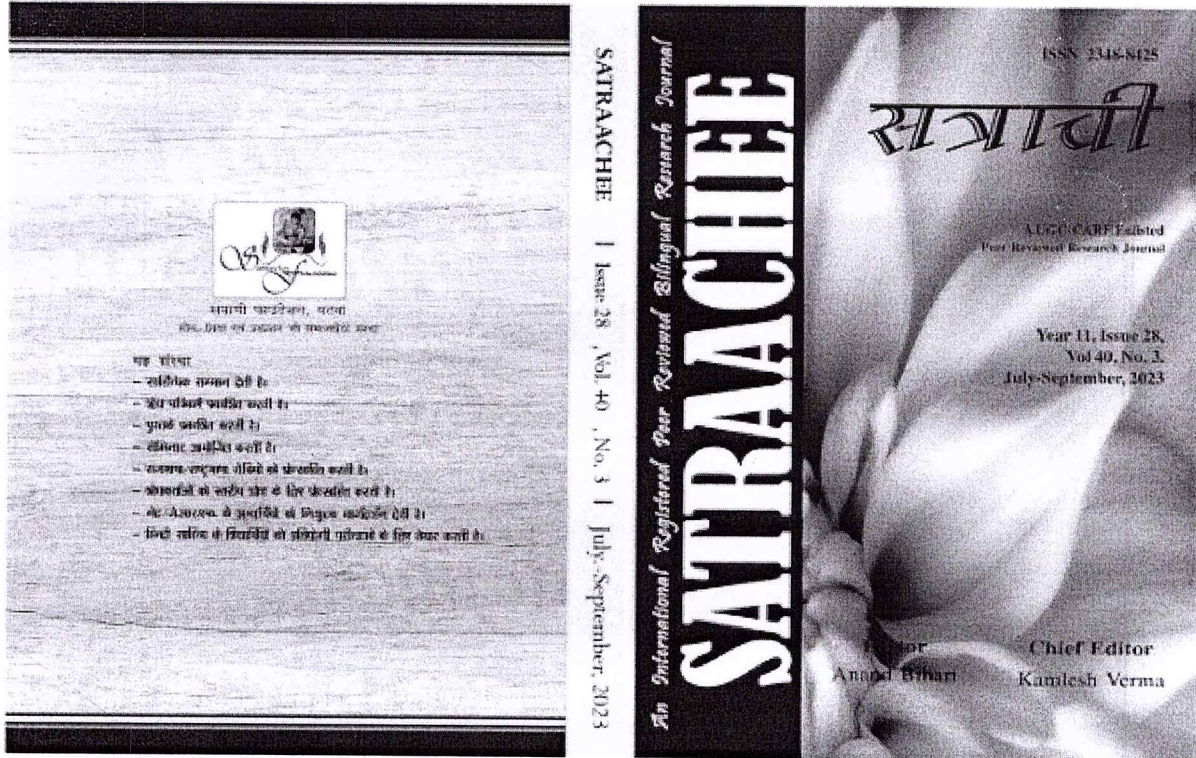
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The Effect of Individual, Job, and Organizational Factors on Class Communication of University Faculties: A Qualitative Study based on Grounded Theory Methodologies

- Mrs. Mousumi Biswas<sup>1</sup>
- Dr. Purnajita Dasgupta<sup>2</sup>

Abstract:

The study aimed to find the factors related to self, job, and organization which cause an impact on the class communication of Faculty Members. Following Grounded Theories, the authors explored how these factors act as facilitating and restrictive forces for delivering effective class communication.

Focused Group Discussion was adopted to find meanings from interaction and draw relatedness between statements. The authors undertook personal interviews with selected participants and used sentiment analysis to have a deeper understanding.

The result indicates Positive Emotion, Passion for Teaching, Self-Coherence, Reasonable Workload, Role Clarity, Cultural Conformity, Self-Efficacy, Positive LMX, and TMX encourages faculties to communicate effectively. The authors also observed that the absence of a few facilitating factors does not act as restraining forces.

The study gets support from Cognitive Evaluation Theory as determinants that facilitate or restrain intrinsic motivation also impact class communication.

University Administrators may observe these factors and take initiatives to improve the academic environments facilitating effective class delivery by the faculty members.

Investigation of the influence of individual, job, and organizational factors on the communication of university faculties in class is new in the field. We added to the literature by identifying the facilitating and restraining forces for effective class communication.

**Key Words:** Class Communication, Intrinsic Motivation, Positive Emotions, Facilitators of

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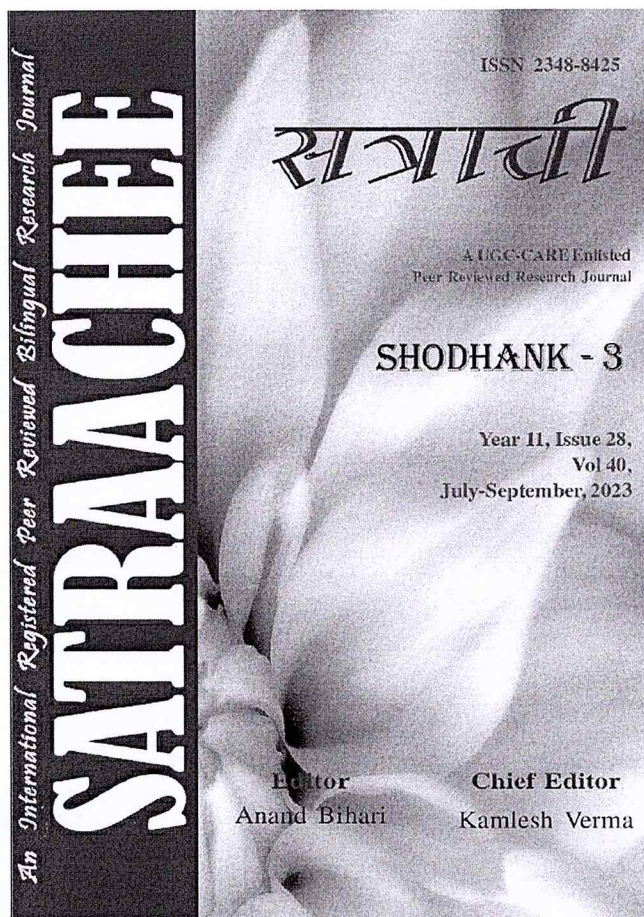
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- 2. Front page of the Research Paper

**Memory and Narratives as tool for Reconstruction: A Study of select stories on Tripura Bengali Partition Narratives**

Jagriti Chakraborty<sup>1</sup>, Dr. Madhumita Chakraborty<sup>2</sup>

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**Abstract**

The study of any historical event requires the use of narratives, because they allow one to understand and analyse actions along with causes and effects. Narratives has the ability to shape identities and influence our behaviour now and in the future. The narrative structure of a traumatized memory follows a different principle than any other account of history. However, in order for this memory to be classified as a trauma memory, the 1947 Partition and the subsequent migration of the Bengali community in Tripura. There is a connection of mutual history between the person recounting the horrifying incidents and the person who listens to it. However, it cannot be an assessment of reading history, which aims to downplay the unexpected and to be able to lessen the impact of the horrifying. As a result, information about Bengalis from Tripura, their journey of arrival, and their settlement stories may be the main topic of the paper's introduction. It is not just a historical record of a horrific incident that affected a number of individuals; rather, the motive is to look into how the trauma affected those involved. Examining the traits of distressing recollections and, in turn, how people integrate and construct their experiences and difficulties through narratives is the purpose of this research.

Keywords: Narrative, Memory, Tripura Bengali

**1. Introduction:**

Among the most tragic moments throughout the chronicles of the Indian subcontinent was the division of the India in 1947. It directed to creation of the two sovereign nations of India and Pakistan along religious lines. Millions of people crossed the new borders to join their fellow believers during the division, resulting in great bloodshed, displacement, and fatalities. People who experienced the partition suffered severe psychological damage as a

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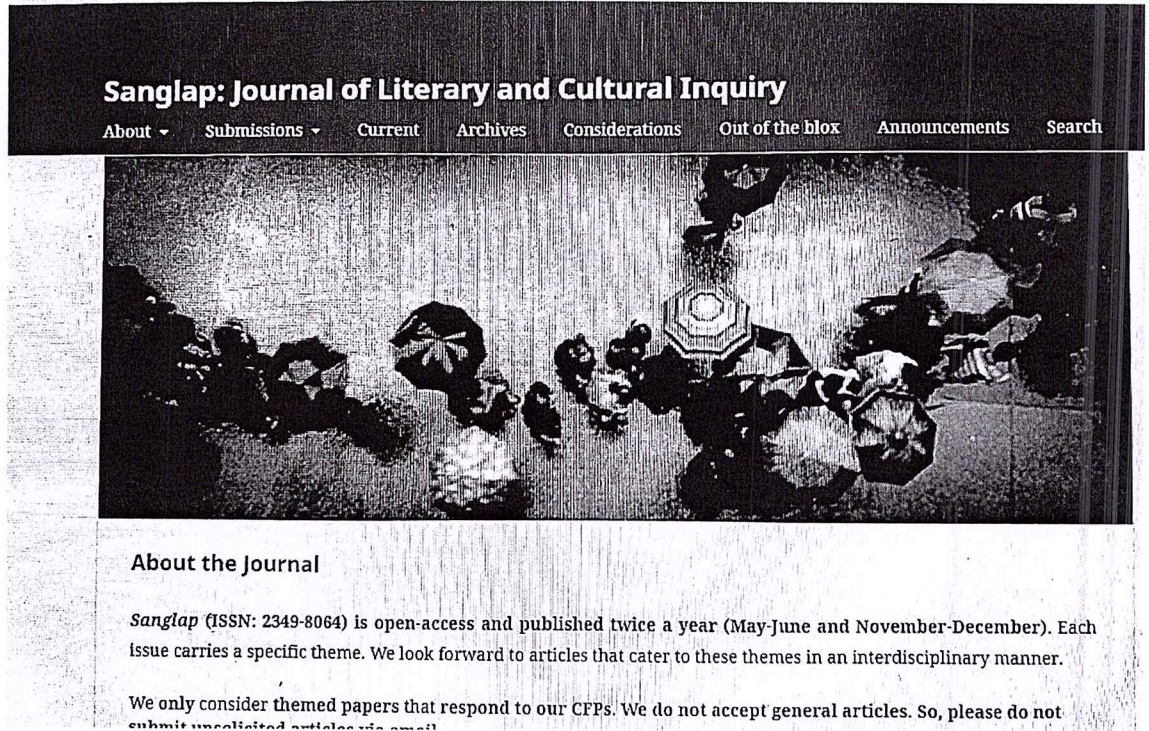
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**'Stories To Stay, Stories To Subvert': The Role Of Collective Communal Memory in the Native-Canadian Struggle for Resistance against Colonisation**

Urmi Sengupta

Memory Studies, in its recent pre-occupation with the exploration of the relationship between memory and history, often strives to look into the distortion and/or repression of the memory of the marginalised that underlies the construction of the official discourse of history in a colonial context. This phenomenon emerges to be extremely prominent within the power-politics underlying a European settler colony like Canada. The fundamental difference in the historical consciousness of the indigenous people of Canada and their European colonisers has been instrumental in providing a rationale for the five hundred years of colonial battering that the Native Canadians have been subjected to. Having a primarily oral culture, collective memory transmitted across generations through oral storytelling has remained the repository of these communities' past for a long time. Yet, the hierarchical oral/written binary of the Western worldview tends to dismiss their culture and civilisation, as "primitive" in favour of the so-called "modern" one that the Euro-Canadian settlers boast of. It lays the foundation for the colonial discourse of the "White-Man's burden" of "civilising" the "savage Indians," who do not have a chronologically documented (written) history in the Western sense of the term, within their own traditional knowledge system.

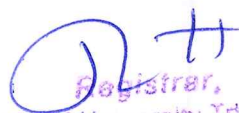
When highlighting the need to question one's faith in the complete neutrality of an official version of the history of a colonised nation by acknowledging that "the meaning of history is dependent upon the structures to which facts are fitted" (Hutton 535), it is such 'structures' of perpetuating oppression and control that historian Patrick Hutton harps upon, for it is only because of this overarching structure of colonialism, that the Native-Canadians have long been represented in mainstream academia and culture through the coloniser's gaze and the Euro-Canadian version of history been posited as the singular monolithic "Truth" within and without the geo-political boundaries of the nation. The need to emphasise, acknowledge, and thereby establish the indigenous historical consciousness as an equally viable way of looking at the past is, therefore, a necessary intervention into the colonial discourse of history. It is only as late as the second half of the twentieth century that this process found impetus in Native-Canadian attempts at voicing a resistance against the (dominant) official discourse of history perpetuated by the "white" Canadians through a conscious and deliberate attempt to blur the edges of the oral/written binary in their own uniquely subversive and effective way.

As two of the pioneers among the Indigenous storytellers who use the colonisers' language (English) and their medium of expression, i.e., writing, as tools to subvert the colonial intervention, the Okanagan writer, visual artist, academician Jeannette Armstrong (b. 1948) and the Salish-Cree writer, performing artist and activist Lee Maracle (1950-2021) have been instrumental in exploring the role of orality and storytelling in interrogating power structures that have repressed the voices of the marginalised for ages. In their literary careers spanning more than four decades, they have consciously yet organically inscribed the oral within the written in such a way as to highlight the importance of memory, collective remembrance, and the art of listening in forging an alternative "history" for their respective communities. This "history" not only holds the key to their traditional knowledge and culture that dates back to the pre-colonial times but also reeks of racial discrimination, appropriation of aboriginal rights, and a complete denial of the indigenous world view by the complacent colonisers. In the light of Maracle's *Ravensong* (1993) and Armstrong's *Whispering in Shadows* (2000), two novels that deal with the coming-of-age stories of Salish and Okanagan youths in constant negotiation with colonial intervention, this paper aims to explore the subversive potential of this collective

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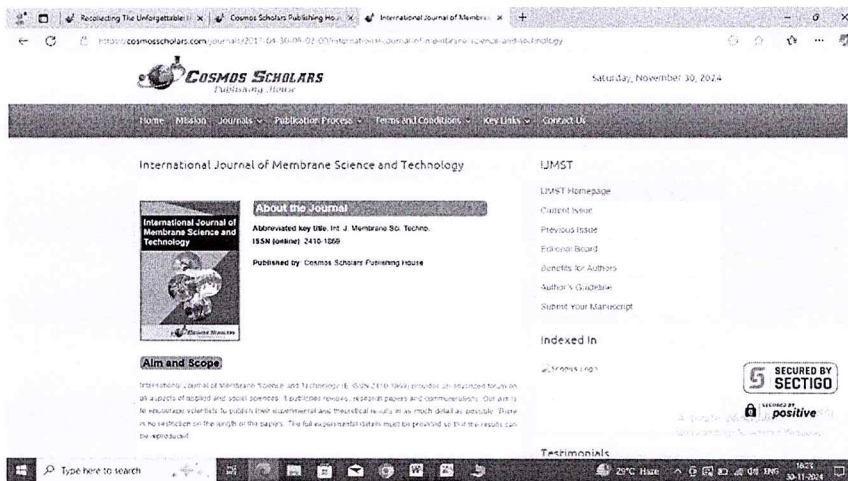
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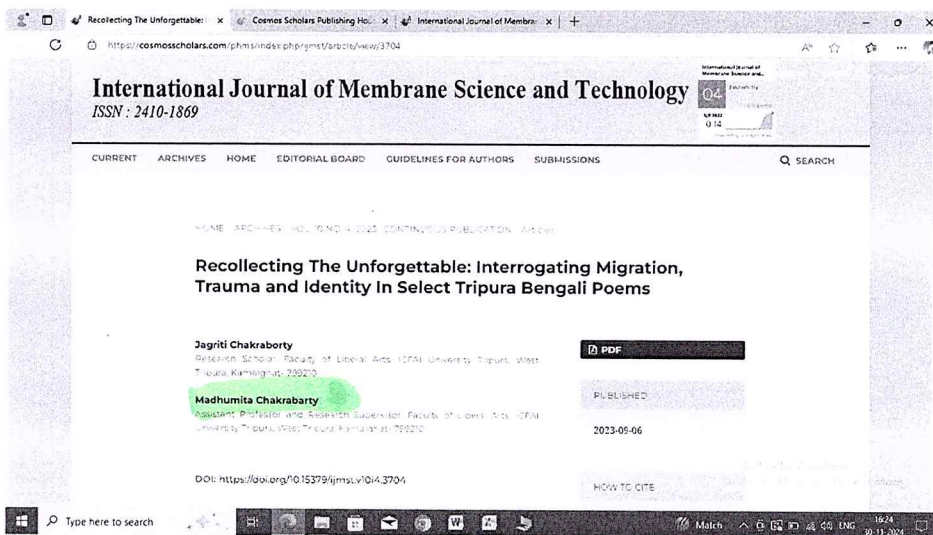


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1. Cover page of the journal- International Journal of Membrane Science and Technology



2. Front page of the Research paper



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1. Cover page of the Journal: <https://jrtd.com/index.php/journal>

The screenshot shows the journal's website with a dark header. The main title is 'Journal for ReAttach Therapy and Developmental Diversities'. Navigation links include HOME, EDITORIAL TEAM, CURRENT ISSUE, SUBMISSIONS, AHEAD OF POINT, AHEAD OF PRINT ARCHIVE, JOURNAL ARCHIVE, ADVERTISING IN JR TDD, and ANNOUNCEMENTS. A sidebar on the left contains 'JRTDD Info', 'ReAttach Method', 'Indexing/Abstracting', and 'JRTDD policies'. The main content area features 'ANNOUNCEMENTS' with a 'Call for Papers: African Journal of Biomedical Research' dated September 17, 2024, and a 'Submissions' section with links for 'Submission instructions' and 'Manuscript formatting requirements'. A 'JRTDD 10 YEARS' logo is visible in the top left.

2. Front page of the research paper:

Journal for Re Attach Therapy and Developmental Diversities  
eISSN: 2589-7799  
2023 September; 6 (198(2)): 1736-1740

### Exploring the Interplay of Emotional Competency and Subjective Wellbeing among Young Adults of Tripura

Joydeep Roy Chowdhury<sup>1\*</sup>, Dr. Poonam Mukherjee<sup>2</sup>, Sagarika Debroy<sup>3</sup>

<sup>1</sup>Research Scholar, The ICFAI University Tripura  
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Article History: Received date: 12-July-2023 Revised date: 09-August-2023 Accepted date: 01-September-2023

#### Abstract

The aim of the present study is to explore the interplay of Emotional Competency and Subjective Well-being in Young Adults: A Study in Tripura. The study was carried out among 160 young adults (College and University students) their age ranging 19 to 23 years. A purposive sampling technique was used to select the sample. The Subjective Well-being Inventory, developed by Sell and Nagpal in 1992, and the Emotional Competence Scale (ECS), developed by Bhargava and Sharma in 1998, was used to gather data. The data were analyzed using descriptive statistics like mean, standard deviation, t test, and correlation. The findings showed that there are notable differences between boys and girls in terms of both subjective well-being and emotional competence. Comparatively speaking, boys typically exhibit higher levels of emotional competence and subjective well-being than their peers. Additionally, it was discovered that there is a strong relationship between emotional competence and subjective well-being.

**Keyword:** Emotional Competence, Young Adults, Subjective Well-Being, College and University students.

#### Introduction:

Emotional competency, often referred to as emotional intelligence (EI) or emotional intelligence quotient (EQ), has garnered significant attention in recent years as a crucial factor in personal and professional success (Salovey & Mayer, 1990; Goleman, 1995). It is the capacity to recognize, understand, control, and make appropriate use of one's own emotions, as well as those of others (Mayer & Salovey, 1997). Simultaneously, subjective well-being—a complicated construct that encompasses positive emotions, overall life satisfaction, and the absence of negative emotions—is a crucial aspect of people's quality of life (Diener, Lucas, & Oishi, 2002). It is imperative that the fields of psychology and personal development investigate the complex relationship that exists between subjective well-being and emotional intelligence. Research over the last few decades has repeatedly indicated that an individual's subjective wellbeing is significantly shaped by their emotional competency. The underlying premise of this relationship is that individuals with greater degree of emotional competency are better able to deal with the difficulties of life, maintain healthier relationships, and have greater life satisfaction (Brackett & Mayer, 2003; Mayer, Salovey, & Carmo, 2004). Reduced stress, stronger interpersonal ties, and increased emotional well-being are frequently the results of their capacity to control their own emotions and react to those of others in an empathic manner (Salovey et al., 2002). The significance of effectively managing emotions for both personal and professional success is emphasized by Goleman's Emotional Intelligence model (Goleman, 1995). Applying this concept to young people, Mayer et al. (2008)'s meta-analysis's findings highlight the importance of emotional intelligence in promoting favourable psychological outcomes.

Furthermore, studies conducted by Diener and Diener (1995) have demonstrated a strong relationship between life satisfaction and emotional wellbeing, highlighting the subjective aspect of wellbeing. Studies looking into how emotional regulation affects overall life satisfaction provide more evidence for this relationship (Gross, 2002; Larsen & Prizmic, 2008).

The significance of this study lies in its potential to inform and improve various aspects of human life, from personal well-being and mental health to workplace dynamics, education, and community development. By uncovering the relationship between emotional competency and subjective well-being, the study can pave the way for more informed and effective strategies for enhancing the quality of life for individuals and communities alike.

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<https://jrtd.com/index.php/journal/indexing-abstracting>

DOI number: <https://doi.org/10.53555/jrtd.v6i9s.2369>

4. Year of Publication: 2023

5. ISSN number: Online ISSN: 2589- 7799

6. UGC Journal Link/Scopus link: <https://www.scopus.com/sourceid/21101034437>

  
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1. Cover page of the Journal: <https://jrtdd.com/index.php/journal>

The screenshot shows the journal's homepage. At the top, there is a navigation bar with 'Register', 'Login', and 'Search' options. The main header features the journal title 'Journal for ReAttach Therapy and Developmental Diversities' and an 'OPEN ACCESS PLATINUM' badge. Below the header is a menu with categories like 'HOME', 'EDITORIAL TEAM', 'CURRENT ISSUE', 'SUBMISSIONS', 'AHEAD OF POINT', 'AHEAD OF PRINT ARCHIVE', 'JOURNAL ARCHIVE', 'ADVERTISING IN JRTDD', and 'ANNOUNCEMENTS'. The main content area is divided into several sections: 'JRTDD Info' with links to Home, About this journal, Why to publish in JRTDD?, Links, and Contact; 'ReAttach Method' with links to What is ReAttach? and ReAttach PhD thesis; 'Indexing/Abstracting' with a link to Indexing and abstracting; 'JRTDD policies'; 'ANNOUNCEMENTS' with a 'Call for Papers: African Journal of Biomedical Research' dated September 17, 2024; and 'Submissions' with links to 'Submission Instructions' and 'Manuscript formatting requirements'. A 'Journal for ReAttach Therapy and Developmental Diversities' information box is also present, detailing the journal's title, serial type, format, ISSN (2589-7799), status (active), subject code (social and rehabilitation sciences, humanities), country (The Netherlands), start year (2018), content type (Academic/Scholarly), editorial description, website (https://jrtdd.com/), language (English), key features (Abstracted and Indexed, Refereed, Peer-reviewed), and editor-in-chief (Dr. Mohammad Nazmul Hasan Mazir).

2. Front page of the research paper:

The screenshot shows the front page of a research paper. At the top, it identifies the journal as 'Journal for Re Attach Therapy and Developmental Diversities' with eISSN: 2589-7799 and 2023 September; 6 (9st 21): 1745-1750. The title of the paper is 'Personality Profile of the Young Substance Abusers of Tripura' by Sagarika Debroy<sup>1\*</sup>, Dr. Poonam Mukherjee<sup>2</sup>, and Mr. Joydeep Roy Chowdhury<sup>3</sup>. The authors' affiliations are listed: <sup>1</sup>Research Scholar, The ICTAI University Tripura; <sup>2</sup>Assistant Professor, The ICTAI University Tripura; and <sup>3</sup>Research Scholar, The ICTAI University Tripura. The article history shows it was received on 12 July 2023, revised on 09 August 2023, and accepted on 01 September 2023. The abstract states: 'The key objective of this study is to identify personality profile of the young substance abusers of Tripura. The study aims to provide light on the dynamics of substance abuse among young people in the area by evaluating their personality pattern. The study enumerated 118 college and university students from various colleges and university in Tripura. The sample was drawn by using purposive sampling technique through NIDA - Modified ASSIST V2 Screening Test. After selecting the sample The NEO FFI (Paul T. Costa and Robert R. McCrae, 1992) was administered on them. Descriptive statistics, such as the mean, standard deviation, and t-value, were employed to provide a concise summary of the gathered data. Result showed significant differences between high and low substance abusers in the personality dimension of openness, extraversion and neuroticism. Furthermore, the regression analysis confirmed that openness and neuroticism make significant contribution in substance abuse behavior'. The keywords are 'Substance Abuse, Personality, Young Adults, College and University students'. The introduction begins with 'The world at large is getting more and more affected by substance usage, with young people being particularly vulnerable to the noxious effects of stimulants and other drugs. The state of Tripura in northeastern India is not an exception to this tendency. Addict's lives are utterly destroyed since they are separated from their family and reside in far-off places. Before searching for illegal ways to make money, they spend a lot of money on drugs. There are numerous negative pharmacological side effects, particularly when weighed against other health concerns. Addiction to substances is frequently accompanied by underlying personality characteristics, which can help initiate and sustain addictive behaviors. Substance abuse has detrimental effects on the user as well as on friends, family, and society at large (NIDA, 2017). A person's personality is a complex construct that includes a variety of features, cognitive styles, and emotional dispositions that affect their feelings, ideas, and actions. To create focused treatments and preventative measures, it is crucial to investigate the personality tendencies of young Tripura substance abusers. Undertaking such an inquiry could clarify the distinct elements that contribute to some people's increased vulnerability to substance misuse and provide valuable insights for customized preventative and treatment plans. This study uses the well-researched Five-Factor Model of Personality, which encompasses the five major personality qualities that are common to all cultures: Openness to Experience (O) is the propensity to be imaginative, creative, unconventional, emotionally and artistically sensitive, Conscientiousness (C) is the tendency to be orderly, strong-willed, dependable, and a conformist; Extraversion (E) is the propensity to be gregarious, warm, assertive, cheerful, and seeking stimulation; Agreeableness (A) is the aspect of interpersonal relationships that is marked by modesty, cooperativeness, altruism, and trust; Neuroticism (N) is the propensity to feel depressive and anxious. A more detailed description of the personalities of drug users may be obtained by looking at the hierarchically defined features of each of these elements. The self-derogation theory (Kaplan, 1975) and the problem behaviour theory (Jessor et al., 1968) are two theoretical frameworks that have been created to explain the relationships between personality traits and illegal substance use. To be more precise, the problem behaviour theory sees illegal drug use as one symptom of a problematic behaviour pattern that leads to personal troubles, whereas the self-derogation theory (Kaplan, 1975) sees substance use as a result of a personality defect or insufficiency (Jessor et al. 1968). Theoretically, Rookle, & Schutte, 2007). The traits of extraversion include friendliness, aggressiveness, and a love of thrills. According to some research, being very extraverted may increase the likelihood of using drugs, especially in social settings where substance abuse is common (Terracciano, Lukashoff, Cron, Blumstein, & Costa Jr, 2008). Being open to new experiences indicates a desire for novelty and diversity. Although there may not be a clear correlation between drug attribute and substance usage, some study indicates that those with high openness may experiment more with various

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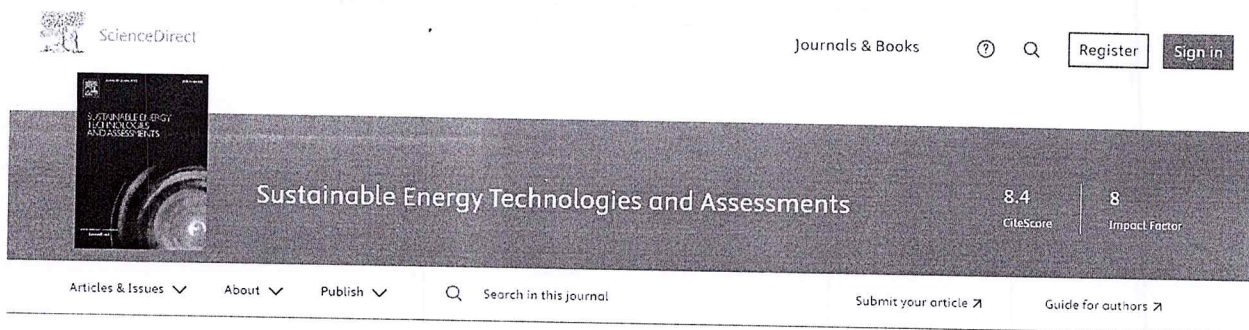
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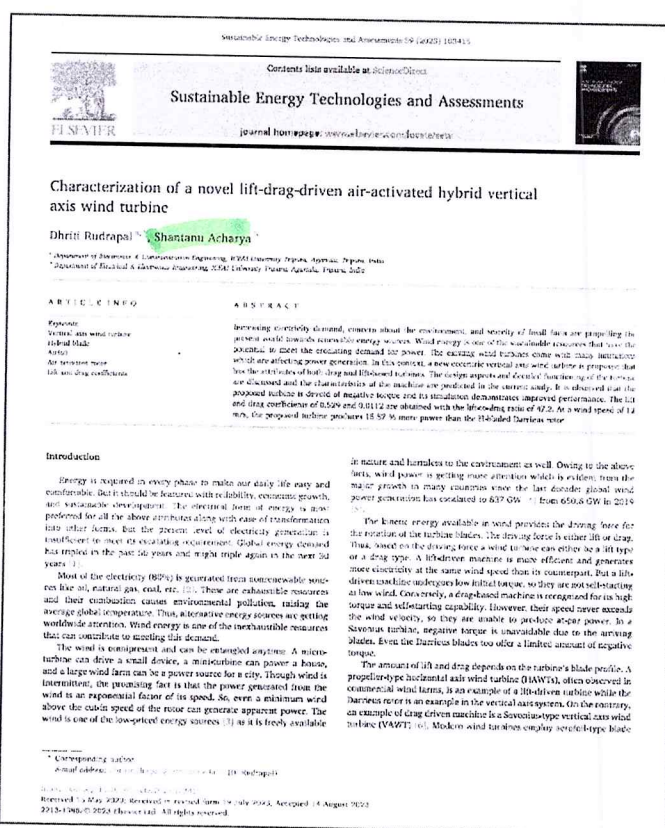
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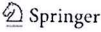
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RESEARCH ARTICLE

### Theoretical and experimental investigations of an integrated rainwater harvesting system for electricity and drinking water

Shantanu Acharya<sup>1</sup> · Rikta Datta<sup>1</sup> · Biswamita Debnath<sup>1</sup>

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**Abstract**  
Most of the electricity at present is generated from hydrocarbons like coal and gas. Their combustion is polluting the environment and raising the global temperature. Hence, there is an enhancement in catastrophes like floods, tornadoes, and droughts. Consequently, some part of the earth is facing, whereas there is a dearth of drinking water in some other part. A tribo-generator-integrated rainwater harvesting system for electricity and drinking purposes is proposed in the present paper to address these issues. A setup of the generating sections of the scheme is developed and experimented in the laboratory. The obtained results show that the triboelectricity from rainwater depends on the rate of droplets falling per unit time, the height from which they are descending, and the coverage area of hydrophobic material. When released from 96 cm, the low- and high-intense rain generates 67.9 and 139 mV, respectively. Conversely, the electricity from the nano-hydro generator is proportional to the flow rate of water. 71.8 mV is observed at an average flow rate of 49.05 ml/s.

**Keywords** Triboelectric device · Rainwater harvesting · Nano-hydro generator · Drinking water · Filter · Power generation

**Introduction**  
Electricity is the most preferred form of energy known to human beings. It gained popularity due to its ease of use and ability of quick transformation into other energy forms. In the modern world, an individual needs electricity at every step of life. Its demand is rising concurrently with the population. In 2017, 2018, 2019, and 2020, the global consumption was 22,370, 23,176, and 23,742 TWh (Buzardata 2021). Paradoxically, consumption dropped to 23,584 TWh in 2020 (Buzardata 2021) due to the COVID-19 pandemic. However, the growth rate in the generation was not analogous, resulting in a gradual increment in electricity deficiencies in the respective years, 88.60, 89.42, 90.08, and 89.45% of the world population had access to electricity (The World Data Bank 2011), while 11,40,10,58,949, and 9,66% were deprived. Up till now, most of the power is generated from fossil fuels, which is evident from the fact that in 2020, exhaustible resources supplied 61.85% World Energy Data 2021) of the global requirement. Combustion of these fuels releases greenhouse gases (GHG) along with other polluting agents that are detrimental to our environment (Pastore et al. 2022). Moreover, continuous extractions from limited stocks are curtailing their reserve. On the contrary, nature has provided many inexhaustible and non-polluting energy sources like the Sun, wind, flowing water, and rain which can be exploited for power generation.

For the survival of the living being, the foremost requirement is air, and the second one is water. The sustenance of life can be counted in minutes without air and days devoid of water. Recently many parts of the world are experiencing a shortage of this second most-precious resource. According to UNICEF (2021):

- Four billion people (almost two-thirds of the world's population) suffer from severe water crises for at least 1 month every year.
- Over two billion people live in areas where there is a dearth of water supply.
- Very soon (by 2025), water will disappear from many places, and half of the world's population may have to face water scarcity.

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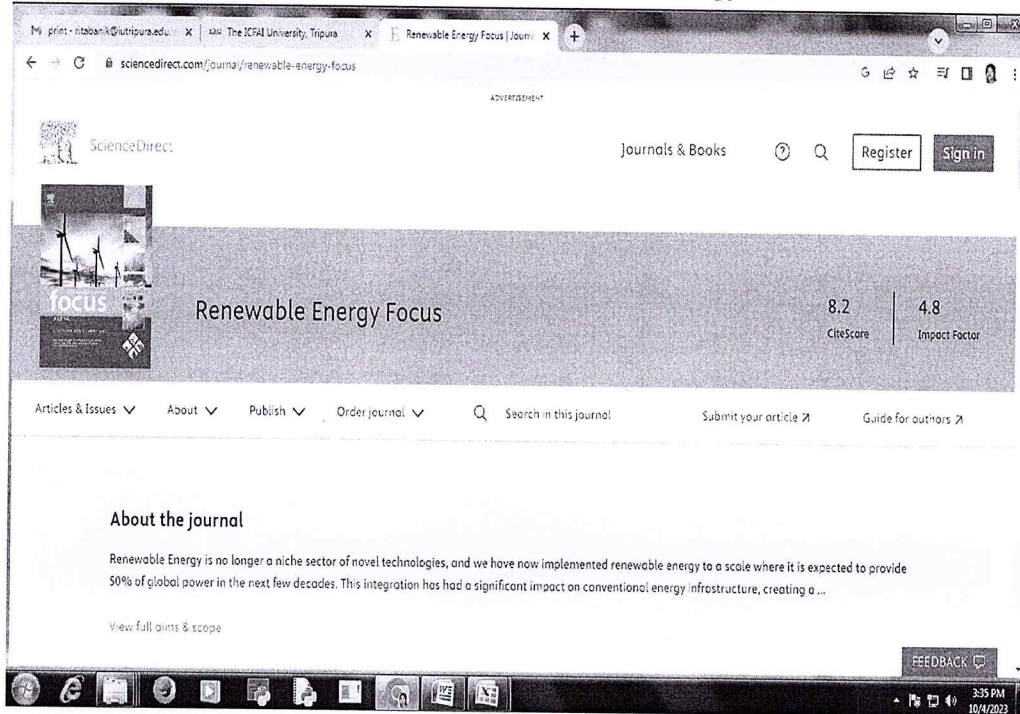
  
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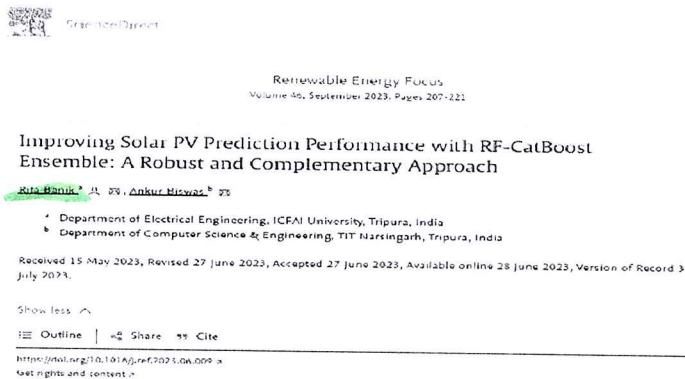
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**Highlights**

- Ensemble models are explored for prediction of Solar radiation and PV power
- Meteorological variables affecting solar radiation and PV power are analyzed.
- An ensemble of Random Forest and CatBoost algorithm is developed
- Improved prediction accuracy is shown using Bayesian Model Averaging.

**Abstract**

Although solar energy is renewable, environmental conditions can make it unpredictable, which makes it difficult to maintain a consistent supply of electricity. Accurate solar forecast techniques are essential to overcome this. Therefore, an efficient model for predicting solar irradiance and PV power output is presented in this study. The suggested model is especially designed for Agartala city in Tripura, India, where the installed capacity of Grid Interactive Solar Power is extremely low. The proposed model for solar irradiance prediction involves utilizing a combination of the Random Forest and CatBoost algorithms. The model is developed using 10 years of solar data and other relevant meteorological parameters with a 1-hour interval and assessed at various stages to make long-term monthly predictions. In addition, we compared this model to other existing models for solar irradiance prediction. The study showcased the efficacy of

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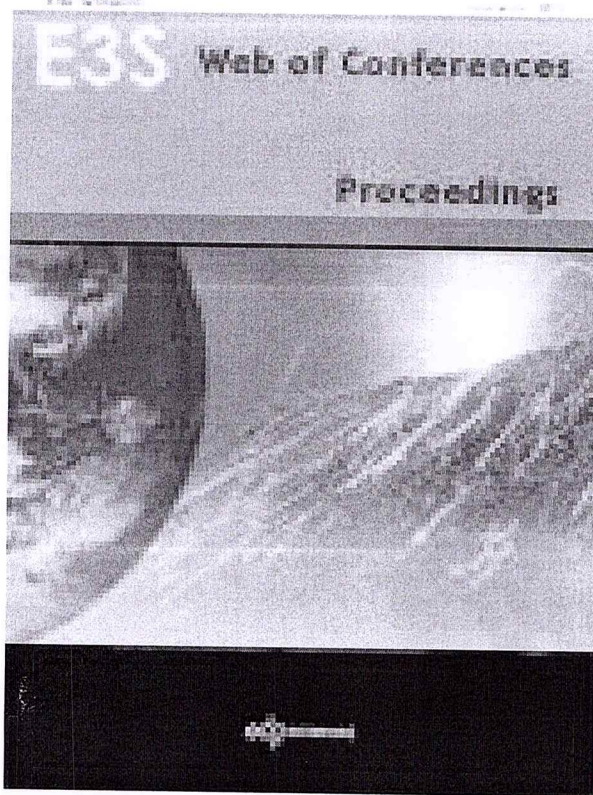
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## Deep learning system for assessing diabetic retinopathy prevalence and risk level estimation

Ankur Biswas<sup>1</sup>, Rita Banik<sup>2</sup>

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**Abstract.** Diabetic retinopathy, one of the foremost problems brought on by Diabetes Mellitus has seen an exponential rise in incidence due to the exponential growth of diabetics worldwide and causes visual issues and sightlessness owing to deformity of individual retina. An early detection and diagnosis are necessary to stop DR from progressing into severe stages and to stop blindness for which regular screening of eye is mandatory. To do this, several machine learning (ML) models are available. However, when used with bigger datasets, classical ML models either need more training time and have less generalisation in feature extraction and classification than when used with smaller data volumes. As a result, Deep Learning (DL), a newer ML paradigm that can manage a relatively small data volume with aid of effective data processing methods is presented. They do, still, often use bigger data in the deep network structure to improve feature extraction and picture classification performance. This study presents a CNN model for DR classification and compares with other variants of pre-trained DL models for initial recognition of DR through binary and multi-class classification. The attained result of 97% accuracy reveals that pre-trained ResNet model's efficacy is better in diagnosing DR.

**Keywords:** Diabetic retinopathy, Deep learning, CNN, ResNet, fundus images

### 1. Introduction

The most common reason of visual loss among diabetics is diabetic retinopathy (DR). The strength and severity of DR is usually determined by an ophthalmologist doing a physical check of the fundus and examining colour photographs. Early detection and treatment of DR can prevent the loss of vision. So, once or twice a year, diabetic individuals are routinely recommended for retinal screening. Since, early detection is essential to stop more damage from occurring since DR is a rapidly developing condition that often results in blindness. Given the vast number of diabetes patients worldwide this procedure is both expensive and time-consuming [1]. Although, screening of DR exists to identify and treat retinopathy satisfactorily on an individual basis. The availability of ophthalmologists and the required medical infrastructure are key factors in the diabetic eye treatment. Accurate intervention

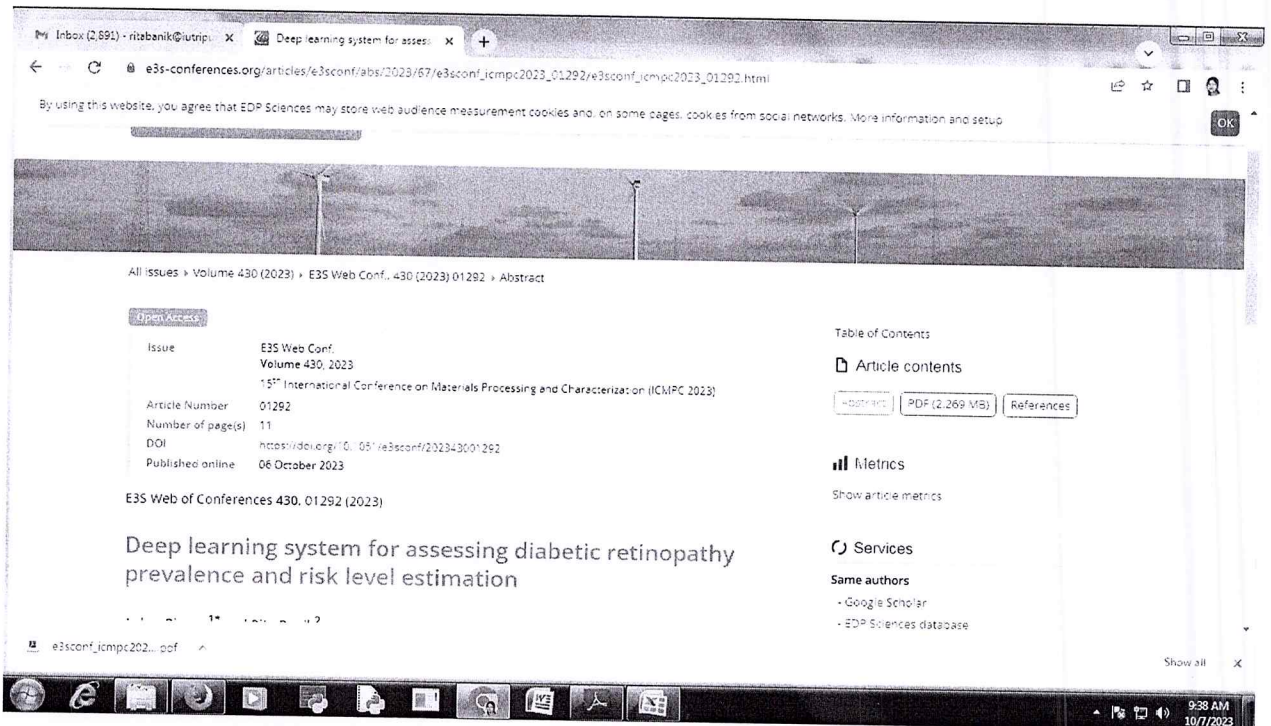
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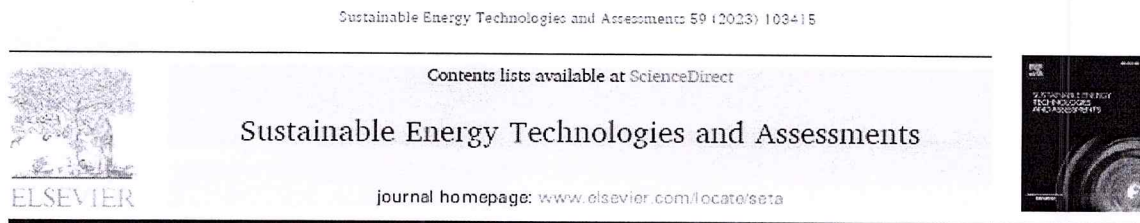
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# Characterization of a novel lift-drag-driven air-activated hybrid vertical axis wind turbine

Dhriti Rudrapal<sup>a,\*</sup>, Shantanu Acharya<sup>b</sup>

<sup>a</sup> Department of Electronics & Communication Engineering, ICPAI University Tripura, Agartala, Tripura, India

<sup>b</sup> Department of Electrical & Electronics Engineering, ICPAI University Tripura, Agartala, Tripura, India

### ARTICLE INFO

**Keywords:**  
Vertical axis wind turbine  
Hybrid blade  
Airfoil  
Air activated rotor  
Lift and drag coefficient:

### ABSTRACT

Increasing electricity demand, concern about the environment, and scarcity of fossil fuels are propelling the present world towards renewable energy sources. Wind energy is one of the sustainable resources that have the potential to meet the escalating demand for power. The existing wind turbines come with many limitations which are affecting power generation. In this context, a new eccentric vertical axis wind turbine is proposed that has the attributes of both drag and lift-based turbines. The design aspects and detailed functioning of the turbine are discussed and the characteristics of the machine are predicted in the current study. It is observed that the proposed turbine is devoid of negative torque and its simulation demonstrates improved performance. The lift and drag coefficients of 0.529 and 0.0112 are obtained with the lift-to-drag ratio of 47.2. At a wind speed of 12 m/s, the proposed turbine produces 15.57 % more power than the H-bladed Darrieus rotor.

### Introduction

Energy is required in every phase to make our daily life easy and comfortable. But it should be featured with reliability, economic growth, and sustainable development. The electrical form of energy is most preferred for all the above attributes along with ease of transformation into other forms. But the present level of electricity generation is insufficient to meet its escalating requirement. Global energy demand has tripled in the past 50 years and might triple again in the next 30 years [1].

Most of the electricity (80%) is generated from nonrenewable sources like oil, natural gas, coal, etc. [2]. These are exhaustible resources and their combustion causes environmental pollution, raising the average global temperature. Thus, alternative energy sources are getting worldwide attention. Wind energy is one of the inexhaustible resources that can contribute to meeting this demand.

The wind is omnipresent and can be entangled anytime. A micro-turbine can drive a small device, a mini-turbine can power a house, and a large wind farm can be a power source for a city. Though wind is intermittent, the promising fact is that the power generated from the wind is an exponential factor of its speed. So, even a minimum wind above the cut-in speed of the rotor can generate apparent power. The wind is one of the low-priced energy sources [3] as it is freely available

in nature and harmless to the environment as well. Owing to the above facts, wind power is getting more attention which is evident from the major growth in many countries since the last decade: global wind power generation has escalated to 337 GW [4] from 650.9 GW in 2019 [5].

The kinetic energy available in wind provides the driving force for the rotation of the turbine blades. The driving force is either lift or drag. Thus, based on the driving force a wind turbine can either be a lift type or a drag type. A lift-driven machine is more efficient and generates more electricity at the same wind speed than its counterpart. But a lift-driven machine undergoes low initial torque, so they are not self-starting at low wind. Conversely, a drag-based machine is recognized for its high torque and self-starting capability. However, their speed never exceeds the wind velocity, so they are unable to produce at-par power. In a Savonius turbine, negative torque is unavoidable due to the arriving blades. Even the Darrieus blades too offer a limited amount of negative torque.

The amount of lift and drag depends on the turbine's blade profile. A propeller-type horizontal axis wind turbine (HAWTs), often observed in commercial wind farms, is an example of a lift-driven turbine while the Darrieus rotor is an example in the vertical axis system. On the contrary, an example of drag driven machine is a Savonius-type vertical axis wind turbine (VAWT) [6]. Modern wind turbines employ aerofoil-type blade

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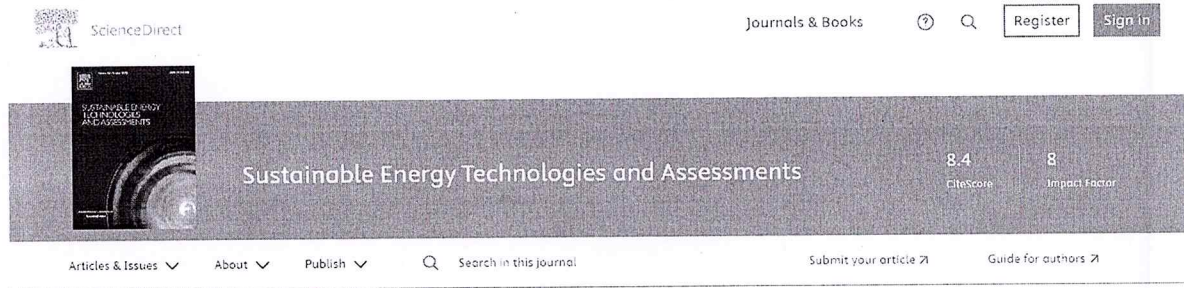
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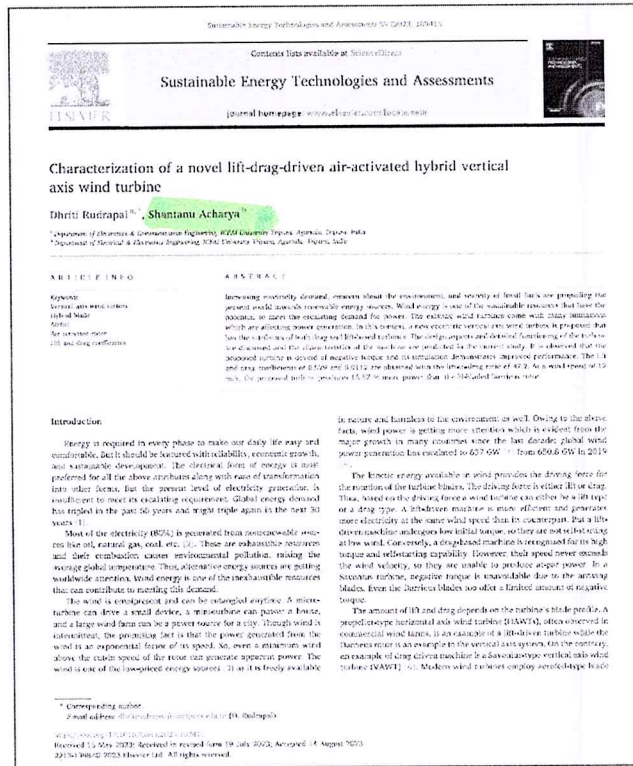
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# Physico-Mechanical and Biological Analysis of Composite Bone Scaffold Developed from *Catla catla* Fish Scale Derived Hydroxyapatite for Bone Tissue Engineering


Research Article-Biological Sciences Published: 16 May 2023

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## Abstract

The properties of a bone scaffold not only contribute to providing the physico-chemical and mechanical support but also play a vital role to support cell adhesion, proliferation and differentiation. Many a time due to the lack in the desired properties, implanted bone scaffolds fail to effectively integrate with the host tissue. Thus, appropriate selections of the biomaterials are of great significance in the process of bone scaffold development. A novel

combination of *Catla catla* fish scales derived hydroxyapatite (HA) and biocompatible polymer PMMA is considered in this work for the fabrication of bone scaffold. HA concentration is varied from 60 to 80 wt% in the PMMA matrix to investigate its effect on the physico-chemical, mechanical and structural characteristics of the fabricated scaffolds. The acquired results signify that the scaffold with 70 wt% HA content shows optimized properties with  $76 \pm 0.6\%$  porosity,  $7.98 \pm 0.47$  MPa compressive strength,  $27.8 \pm 0.3$  HD hardness,  $186 \pm 7\%$  swelling and  $5.5 \pm 0.41\%$  degradation. The obtained results meet the recommended physiological standard to guide bone tissue regeneration. The *in vitro* bioactivity assessment of the best-optimized scaffold indicates bone-like apatite formation on the surface of the scaffold after 28 days of SBF immersion. The SBF immersed scaffold shows the presence of Ca and P along with traces of sodium (Na) and Magnesium (Mg) with Ca/P ratio of 1.58 which is very close to the theoretical Ca/P ratio of natural bone apatite confirming its bioactive nature. The *in vitro* cytotoxicity evaluation of the scaffold shows  $88.1 \pm 3.2\%$  cell viability making the developed scaffold potentially effective to be used in bone grafting.

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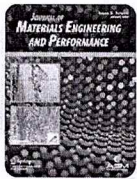
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# Performance of ZnO-Incorporated Hydroxyapatite/Polymethyl Methacrylate Tri-Component Composite Bone Scaffolds Fabricated from Varying Sources of Hydroxyapatite

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## Abstract

Considering the popularity of hydroxyapatite (HA)-based scaffolds and the varied sources of HA synthesis, their impact on the properties of the developed scaffolds needs to be properly explored. Moreover, conventional gas foaming process yields scaffolds with excellent pore

morphology, but with closed pores which are inadequate for efficient osteoinduction. To address these issues, porous hydroxyapatite (HA)/polymethyl methacrylate (PMMA)/zinc oxide (ZnO)-based tri-component composite scaffolds are fabricated by a novel modified gas foaming process from both chemically synthesized HA and natural HA derived from galline and bovine bone bio-wastes. The role of the varying sources of HA on the physico-chemical, mechanical and biological properties of the developed scaffolds is investigated. For this purpose, the scaffolds developed by maintaining a constant composition of HA and PMMA at 70:30 (w/w) and ZnO at 5 wt.% are characterized. The developed scaffolds show stability in their chemical properties and interconnected macro-porous network with a maximum porosity of  $81.93 \pm 1.2\%$ , average pore size of  $149 \pm 5 \mu\text{m}$  and maximum hydraulic permeability of  $(2.36 \pm 0.09) \times 10^3 \mu\text{m}^2$  for synthetic HA-based scaffolds. A maximum compressive strength, hardness and cell viability of  $16.70 \pm 0.6 \text{ MPa}$ ,  $32.4 \pm 0.9 \text{ HD}$  and  $98 \pm 3.2\%$ , respectively, and maximum protein adsorption are recorded for bovine bone-derived HA-based scaffolds. All the scaffolds are found to be bioactive in nature, while galline bone-derived HA-based scaffolds show maximum biodegradation with  $8.1 \pm 0.15\%$  weight loss in SBF. The results obtained indicate that apart from the porosity and permeability, synthetic HA-based scaffolds reveal poor chemical, mechanical and biological properties compared to natural HA-based scaffolds. The study concludes that the properties of a composite scaffold rely significantly on the parent material (HA). Based on the extensive comparative investigation, bovine bone-derived HA-based composite scaffold is found to have improved properties for growth and proliferation of bone cells.

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**ORIGINAL ARTICLE**

### LGBM-ACp: an ensemble model for anticancer peptide prediction and in silico screening with potential drug targets

Swathava Gargal<sup>1</sup> · Juanit Thomas<sup>1</sup> · Palash Dey<sup>2</sup> · Deepina Das<sup>1</sup>

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**Abstract**  
Conventional cancer therapies are highly expensive and have serious complications. An alternative approach now emphasizes on the development of small, biologically active peptides without acute toxicity. Experimental screening to find curative anticancer peptides (ACPs) often gives rise to multiple obstacles and is time dependent. Consequently, developing an effective computational technique to identify promising ACP candidates prior to preclinical research is in high demand. This study proposed a machine-learning framework that used the light gradient-boosting machine as a classifier and two compositional and two binary profile features as input. The ensemble model displayed an accuracy, MCC, and AUROC of 97.52%, 0.91, and 0.98, respectively, which outclassed most of the existing sequence-based computational tools. A distinct dataset of non-mutagenic, non-toxic, and non-inhibitory Cytoschrome P-450 peptides was used to validate the hybrid model. The most relevant ACP in the alternative dataset was compared with two standard ACPs, beta-defensin 2, and cecropin-A. Molecular docking of the predicted peptide revealed that it has a strong binding affinity with twenty-five anticancer drug targets, most notably phosphoenolpyruvate carboxylase (-7.2 kcal/mol). Additionally, molecular dynamics simulation and principal component analysis supported the stability of the peptide-receptor complex. Overall, the present findings will take a step forward in rational drug design through rapid identification and screening of therapeutic peptides.

**Keywords** Anticancer peptide · Machine learning · Molecular docking · Molecular dynamics simulation · PCA

**Introduction**  
Cancer is the second leading cause of death worldwide, trailing only cardiovascular disease, accounting for approximately 10 million deaths in 2020 and anticipated to rise 47% by 2040 [1]. As per the data collected by the National Center for Health Statistics, cancer incidence and mortality rates are increasing year by year, with the projection of about 609,360 cancer deaths only in the United States by the end of 2022 [2]. Cancer is immensely curable if detected early; however, it is one of the most difficult challenges [3]. The treatment of cancer is challenging due to the intrinsic, heterogeneous, and invasive nature of cancer cells [4, 5]. Conventional cancer treatments, such as radiotherapy, chemotherapy, immunotherapy, targeted therapy, and surgery, primarily focused on curing uncontrolled cell proliferation and as a result, showed low efficacy and adverse side effects on normal cells [4, 6]. Additionally, these treatments are expensive and at the same time unpleasant for the patients [7, 8]. Presently, a major threat of conservative treatment is the development of multidrug tumor resistance as the genomes of cancerous cells are changing dynamically [6, 7]. Consequently, it is necessary to develop novel anticancer drugs to attenuate cancer cell proliferation. Recent advancements in the fields of genomics and proteomics are shedding some light on the invention of peptide-based biomarkers that have increased the detection of cancer at an early stage [8]. The ability to rapidly detect cancer and develop anticancer drugs with the help of computational tools has seen outstanding growth during the previous two to three decades [9–11]. Subsequently, there is an increased interest in bioactive peptides in pharmaceutical research and development (R & D). Apart from safety, bioactive peptides have other potential advantages, including high-target specificity and efficacy, low toxicity, ease of synthesis and modification, and being

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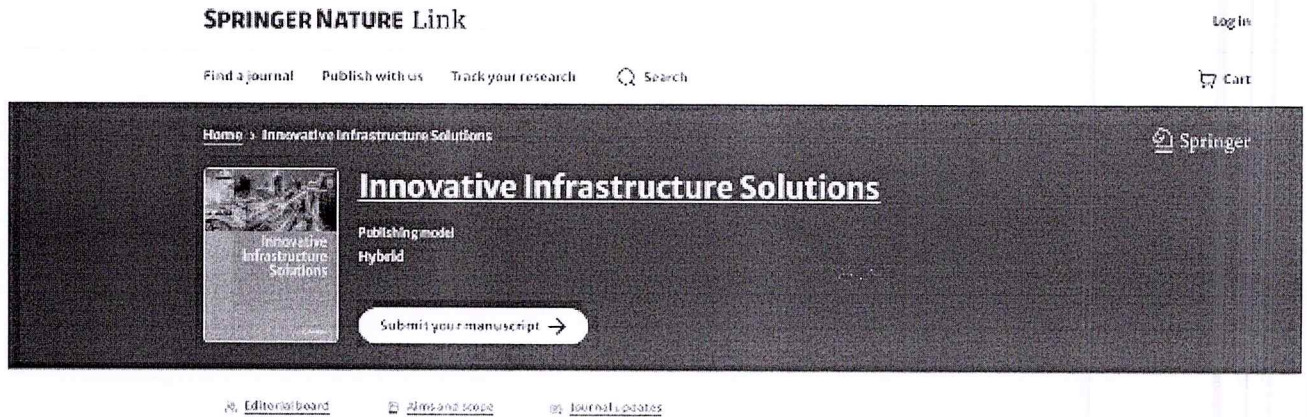


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TECHNICAL PAPER



## Variations in water quality and their impacts on mechanical properties and microstructure of cement-based building materials

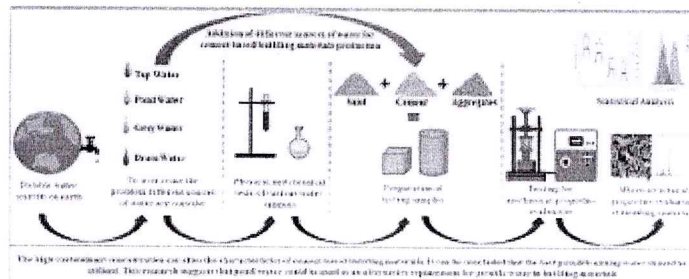
Palash Dey<sup>1</sup> · Nayan Deb<sup>1</sup> · Srinjoy Roy<sup>1</sup> · Deepina Das<sup>2</sup>

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### Abstract

Many developing nations have suffered from structural failures. Most researchers on structural failures are poor design, poorer material and lack of supervision. Not much attention has been paid on the water which is used in cement based building materials, namely, concrete/mortar mixing as a potential failure factor. This study analyses how water sources and mixing water composition affect concrete and mortar quality. Tap (TW), pond (PW), grey (GW) and municipal drain (DW) water were utilized to prepare the concrete/mortar, and the testing results were compared to that of the concrete/mortar material developed using tap or potable water. A one-way analysis of variance test at the 5% significance level was employed to statistically evaluate the effects of water qualities collected from various water sources on the mechanical properties of cement-based building materials produced from those sources. The results showed that the water quality parameters play a vital role on the cement based material properties. Further, the obtained results were supported by scanning electron microscopy and energy dispersive spectroscopy tests. In conclusion, the authors claim that the use of waste water in concrete/mortar is an ill-considered concept, whereas the study shows that the potential of using pond water as a sustainable alternative to tap water in the production concrete/mortar.

### Graphical abstract



**Keywords** Water quality · Impurities · Fresh concrete · Hardened concrete · Microstructure · ANOVA

### Abbreviations

ANOVA	Analysis of variance	COD	Chemical oxygen demand
BOD	Biochemical oxygen demand	DO	Dissolved oxygen
		DW	Drain water
		EDS	Energy dispersive spectroscopy

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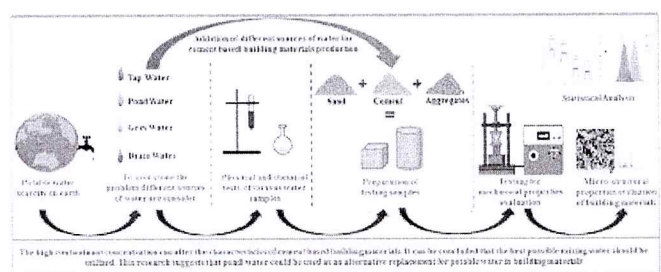
### Variations in water quality and their impacts on mechanical properties and microstructure of cement-based building materials

Palash Dey<sup>1</sup> · Nayan Deb<sup>1</sup> · Srinjoy Roy<sup>1</sup> · Deepilna Das<sup>2</sup>

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**Abstract**  
Many developing nations have suffered from structural failures. Most researches on structural failures cite poor design, poorer material and lack of supervision. Not much attention has been paid on the water which is used in cement based building materials, namely, concrete/mortar mixing as a potential failure factor. This study analyses how water sources and mixing water composition affect concrete and mortar quality. Tap (TW), pond (PW), grey (GW) and municipal drain (DW) water were utilized to prepare the concrete/mortar, and the testing results were compared to that of the concrete/mortar material developed using tap or potable water. A one-way analysis of variance test at the 5% significance level was employed to statistically evaluate the effects of water qualities collected from various water sources on the mechanical properties of cement-based building materials produced from those sources. The results showed that the water quality parameters play a vital role on the cement based material properties. Further, the obtained results were supported by scanning electron microscopy and energy dispersive spectroscopy tests. In conclusion, the authors claim that the use of waste water in concrete/mortar is an ill-considered concept, whereas the study shows that the potential of using pond water as a sustainable alternative to tap water in the production concrete/mortar.

Graphical abstract



**Keywords** Water quality · Impurities · Fresh concrete · Hardened concrete · Microstructure · ANOVA


<b>Abbreviations</b>		COD	Chemical oxygen demand
ANOVA	Analysis of variance	DO	Dissolved oxygen
BOD	Biotechnical oxygen demand	DW	Drain water
Extended author information available on the last page of the article.		HDS	Energy dispersive spectroscopy

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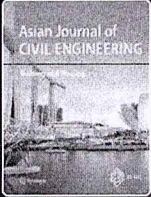
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## Prediction of the compressive strength of normal concrete using ensemble machine learning approach

Sanjog Chhetri Sapkota<sup>1</sup> · Prasenjit Saha<sup>2</sup> · Sourav Das<sup>3</sup> · L. V. Prasad Meesaraganda<sup>4</sup>

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### Abstract

In recent times, the use of machine learning techniques has become a new trend for predicting compressive strength of concrete. The use of such algorithms in predicting the strength and its proportioning has eased the manual work of mix design. In the present study, an attempt has been made to use advanced machine learning algorithms in predicting concrete strength. It has been performed using ensemble machine learning methods such as random forest regressor and Categorical Boosting (CatBoost) algorithm to predict the compressive strength of concrete. To reduce the underfitting or overfitting issue, a fivefold cross-validation technique has been used. In addition, a comparison has been made between both the algorithms considering performance indices, accuracy, and data importance. Furthermore, by considering different algorithms, the feature importance of each variable and the relationships between variables have been established for making the models more efficient. The analysis of the study exhibits that the random forest and CatBoost have a prediction accuracy of 89.3 and 95.8%, respectively. Thus, considering the accuracy and performance indices, CatBoost model has outperformed random forest model. Finally, this study demonstrates the possibilities of making the infrastructure sustainable and predictable, by analysing the mechanical properties of concrete using different machine learning algorithms.

**Keywords** Ensemble learning · CatBoost · Random forest regressor · Concrete compressive strength

### Introduction

Concrete is one of the important materials which is being widely used in construction industries. It is a mixture of different ingredients, such as cement, sand, aggregates and

admixtures. The strength of the concrete directly or indirectly depends on the properties of all its ingredients. To ensure desired test results, standard provisions have been provided by different codes. Since every type of concrete has specific mechanical properties, the primary aim is to evaluate the quality of concrete by conducting a compressive strength test. The strength of the concrete is usually determined using conventional compression testing on a concrete cylinder or cube specimen, although it is very laborious and time-consuming. The difference in strength can be observed when any of the raw materials of concrete gets changed (Güçlüer et al., 2021). Moreover, this system is vulnerable to human error, and even a small mistake in the calculation, can lead to a significant increase in waiting time (Chakraborty et al., 2021). However, there are several studies, where machine learning techniques have been used to reduce that issue. Though there are several limitations of using machine learning techniques, which have been identified in the literature too, like the overfitting problem and

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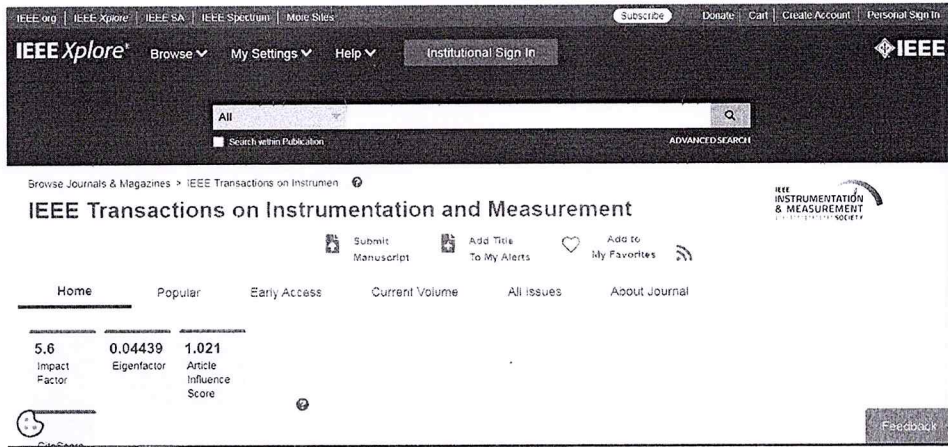
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## 2pCIPr: A Two-Phase Clump Profiler for Segmentation of Cancer Cells in Fluorescence Microscopic Images

Kaushiki Roy<sup>1</sup>, Debapriya Banik<sup>2</sup>, Gordon K. Chan<sup>3</sup>, Ondrej Krejcar<sup>4</sup>, and Debotosh Bhattacharjee<sup>5</sup>, Senior Member, IEEE

**Abstract**—Cancer cell segmentation is challenging since they grow in tightly packed colonies (clumps), causing adjacent cells to overlap. In this work, we proposed an automated vision-based analysis framework: a two-phase clump profiler (2pCIPr) for the segmentation of cancer cells in fluorescence microscopy images. In the first phase, we proposed a deep learning (DL) network, Multiscale Cell-Net, for coarse segmentation. Another framework, multiscale region proposal network (MS-RPN), was simultaneously trained in parallel to Multiscale Cell-Net to generate seeds for each cell. The coarse segmentation map was unable to segment the complex clumps. We proposed a novel metric, the Irregularity factor ( $I_{f,c}$ ), to identify those complex clumps. Once identified, we mapped them with the seed points generated by MS-RPN. These seeds served as the initialization points for our proposed level-set framework: weighing repelling force embedded-level-set method (WRFe-LSM) which segments the identified complex clumps in the second phase of segmentation. The final segmentation map was generated with the segmented

cells from the two phases. We conducted extensive experiments on our private dataset comprising images from four complex cancer cell lines and obtained an aggregated Jaccard index (AJI) of 76.6%, 72.9%, 75.5%, and 69.7% on HeLa, MDA-MB-468, MDA-MB-231, and T-47D, respectively. Furthermore, to show the generalization ability of 2pCIPr, we conducted comparative experiments on a publicly available hematoxylin-eosin (H&E)-stained histopathological images dataset (MoNuSeg) and obtained an AJI of 66.2%. A detailed evaluation of segmentation performance on both the datasets shows that 2pCIPr is robust and effective.

**Index Terms**—Cancer cells, deep learning (DL), fluorescence imaging, level-set method, mitotic catastrophe, segmentation.

### I. INTRODUCTION

CANCER is characterized by the formation of malignant cells in the tissues of different organs of the human body. In the initial stage of carcinogenesis, cells begin to grow with uncontrolled cell division. Cancers seem to progressively develop from hyperplasia to eventually neoplasia and metastasis [1]. Cell segmentation plays a crucial role in developing an automated system for microscopic image analysis [2]. However, it is evident that cancer cells usually lose contact inhibition a recognized hallmark [3] and are densely clustered and highly overlapping. So segmentation of individual cells from these confluent and densely packed cell colonies is a very difficult task to accomplish since these cells lack distinct segregating boundaries among them. A few instances of overlapping cells growing in densely packed colonies have been shown in Fig. 1.

In this regard, it is of utmost importance to develop a computer-assisted vision-based analysis framework which is an integral part of instrumentation and measurement (I&M) [4]. This includes various image processing techniques [5] capable of exploiting computational intelligence to segment regions of interest in microscopic images. Hence, we developed an automated system that serves as a crucial tool to segment cells from confluent cellular regions. This developed auxiliary tool will aid doctors in understanding the mechanism of mitotic catastrophe, a phenomenon associated with aberrant mitosis leading to cell death [6], [7], [8].

The mitotic catastrophe was originally observed when cells were subject to irradiation-induced DNA damage [8]. It has since been recognized that cells entering mitosis with damaged DNA or incompletely replicated DNA can lead to aberrant

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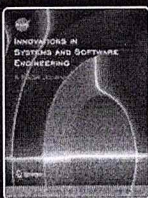
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## Nuclei-Net: a multi-stage fusion model for nuclei segmentation in microscopy images

S.I.: Systems Engineering and Security Published: 06 December 2023  
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### Abstract

In this study, we proposed Nuclei-Net: A multi-stage fusion model for segmenting nuclei in microscopy images. Our proposed model works in two stages. In the first stage, we incorporated a deep learning (DL)-based model namely Mask Region-Based-CNN (Mask-RCNN) for the coarse segmentation of the nuclei. However, it can be observed that the predicted mask of Mask-RCNN is unable to segment some complex overlapping nuclei boundaries. So, in the second stage of Nuclei-Net, we detect the complex overlapping nuclei and pass only those overlapping nuclei for fine segmentation. We proposed a marker generation method for each nucleus in a clump. These markers serve as seed points for the marker-controlled watershed algorithm. This algorithm fine segments those overlapping nuclei which were failed by Mask-RCNN. Finally, we fuse the results from the two stages to develop the final segmentation map. Our proposed Nuclei-Net is trained and

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# An Applied Image Cryptosystem on Moore's Automaton Operating on $\delta(q_k)/\mathbb{F}_2$

Authors Subhrajyoti Deb Abhilash Das Nirmalya Kar [Authors info & Claims](#)

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## Abstract

The volume of multimedia-based image data or video frames in Web 3.0 is constantly increasing, owing to the advancement of real-time data transmission. However, security vulnerabilities frequently impair the performance of real-time applications. Many researchers have recently proposed image encryption schemes based on a high-dimensional chaotic system due to properties such as ergodicity and initial state sensitivity. Nonetheless, most schemes have suffered from excessive computational complexity, low security, and the generation of cryptographically secure random numbers. To overcome these challenges, an efficient and highly secure cryptosystem is necessary for safe

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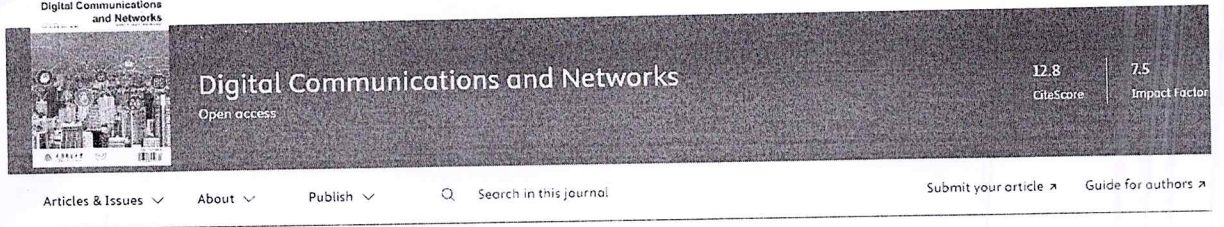
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# 1. A novel hybrid authentication protocol utilizing lattice-based cryptography

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

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# A novel hybrid authentication protocol utilizing lattice-based cryptography for IoT devices in fog networks


Kumar Sekhar Roy <sup>c</sup>  , Subhrajyoti Deb <sup>b</sup>, Hemanta Kumar Kalita <sup>c</sup>


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## Abstract

The Internet of Things (IoT) has taken the interconnected world by storm. Due to their immense applicability, IoT devices are being scaled at exponential proportions worldwide. But, very little focus has been given to securing such devices. As these devices are constrained in numerous aspects, it leaves network designers and administrators with no choice but to deploy them with minimal or no security at all. We have seen distributed denial-of-service attacks being raised using such devices during the infamous Mirai botnet attack in 2016. Therefore we propose a lightweight authentication protocol to provide proper access to such devices. We have considered several aspects while designing our authentication protocol such as scalability

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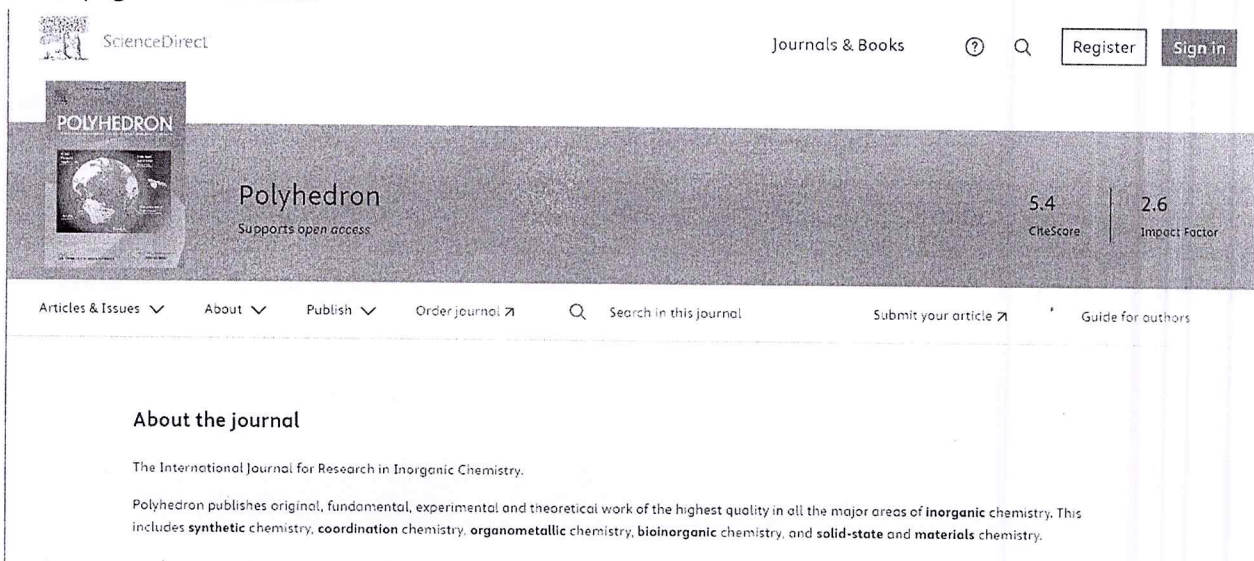


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**Structures and magnetic properties of a trinuclear angular [Ni<sub>3</sub>] and a heptanuclear wheel-like [Ni<sub>7</sub>] complexes with a Schiff base ligand**

Tufan Singha Mahapatra<sup>a,\*</sup>, Bilash Chandra Roy<sup>b</sup>, Biswarup Dutta<sup>c</sup>, Jeff Lengyel<sup>d</sup>, Michael Shatruk<sup>e</sup>, Debashis Ray<sup>b,c</sup>

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<sup>b</sup> Department of Chemistry, Indian Institute of Technology, Kharagpur 721 302, India  
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<p><b>ARTICLE INFO</b></p> <p><b>Keywords:</b>          Schiff base ligand          Trinuclear nickel(II) complex          Heptanuclear nickel(II) complex          Crystal structure          Antiferromagnetic interaction</p>	<p><b>ABSTRACT</b></p> <p>The presence of large magnetic anisotropy with nickel(II) ions facilitates the single-molecule magnet (SMM) behavior in multimetallic nickel(II) complexes. Herein syntheses under ambient conditions, characterizations, crystal structures, and experimental magnetic analyses of an angular [Ni<sub>3</sub>] and a wheel-like [Ni<sub>7</sub>] complexes of general formula [Ni<sub>3</sub>(p-L)<sub>2</sub>(p-OH)<sub>2</sub>(CF<sub>3</sub>CO<sub>2</sub>)<sub>2</sub>] (1) and [Ni<sub>7</sub>(p-L)<sub>4</sub>(p-OMe)<sub>3</sub>(Cl)<sub>2</sub>·6H<sub>2</sub>O] (2) (H<sub>2</sub>L = 2-(4-ethoxypropylamino)methyl)-6-methoxyphenol) have been reported. The angular core of trimetallic neutral complex 1 is assembled using four L<sup>-</sup>, two bridging water molecules, and two bound trithiomacetate anions. In contrast, the heptanuclear complex 2 features a planar wheel-like arrangement with a central Ni<sup>2+</sup> enclosed by a [Ni<sub>6</sub>] hexagon bound to six MeO<sup>-</sup> and six L<sup>-</sup>. The isolation of these two aggregates of varying nuclearity and metal ion: ligand anion ratio indicated the importance of reaction conditions and crystallization to follow the bottom-up assembly processes. Experimental magnetic studies showed antiferromagnetic interactions between the central and terminal Ni<sup>2+</sup> ions in complex 1 and competing ferro- and antiferromagnetic interactions in the wheel-like complex 2.</p>
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**1. Introduction**

The synthetic methods for creating multinuclear nickel(II) complexes have experienced enormous growth in recent years from their structural characterizations, proposed mode of ligand-induced aggregation, applications in solid state and solution medium, magnetic and catalytic properties [1–11, 98–101] and for getting information for nickel(II) bearing biomolecules [12–14, 15]. The stepwise formation of coordination aggregates under the control binding of metal ions with ligand anions is a significant subject to understanding the mode of assembly processes, the role of the reaction conditions, the effect of solvents and readiness in crystal packing. N, O donor-based Schiff bases are useful in obtaining multinuclear nickel(II) molecular spin clusters [16–19]. In some cases, single-molecule magnet (SMM) behavior was identified in the laboratory-synthesized compounds having ground high-spin states and uniaxial magnetic anisotropy [3, 4, 32–34]. Despite the expansion and advances in Ni(II) multinuclear complexes domain, proper apprehension of the in situ generated intermediates between the starting reactants and finally produced clusters remains challenging. Ortho-vanillin-based Schiff base ligands are well known to afford a base-dependent generation of ligand anions (L<sup>-</sup>), which can result in several (ML)<sub>n</sub> and (ML<sub>2</sub>) species upon reacting with metal ions (M) (Fig. 1) [20, 21]. These fragments can further aggregate to generate stable clusters of multinuclear complexes of varying geometries in the solution pool of various ancillary ligands such as water (H<sub>2</sub>O), hydroxide (HO<sup>-</sup>), methoxide (MeO<sup>-</sup>) and carboxylate (RCO<sub>2</sub><sup>-</sup>) [22–24].

Herein, we report the synthetic procedures, crystal structures, and magnetic properties of trinuclear [Ni<sub>3</sub>(p-L)<sub>2</sub>(p-OH)<sub>2</sub>(CF<sub>3</sub>CO<sub>2</sub>)<sub>2</sub>] (1) and heptanuclear [Ni<sub>7</sub>(p-L)<sub>4</sub>(p-OMe)<sub>3</sub>(Cl)<sub>2</sub>·6H<sub>2</sub>O] (2) complexes on aqua and methoxido bridges, respectively. The chosen nickel(II) salts and bases were crucial for allowing water bridges as supports in 1 and assembling six methoxido groups around one nickel(II) ion in 2. In both cases, the ligand anions (L<sup>-</sup>) function as capping groups depending upon the solvent and metal ion-based templates. During the two aggregation progressions, the MeO<sup>-</sup> anions on L<sup>-</sup> were utilized as and when required to provide [Ni<sub>2</sub>L] connections. The temperature dependence of  $\chi T \chi_0$

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# Crystal Structure of 2-((E)-((Z)-3-(((4-hydroxyphenyl)amino)methylene)-4-oxocyclohexa-1,5-dien-1-yl)diazenyl)benzoic Acid and Synthesis, Spectroscopy, and DFT Study of Its Dibutyltin(IV) Complex

Pratima Debnath<sup>1</sup> · Chinmoy Majumder<sup>1</sup> · Arnab Bhattacharya<sup>2</sup> · Paresh Debnath<sup>1</sup> · Subhadip Roy<sup>3</sup> · Alexander S. Novikov<sup>4,5</sup> · Manojit Roy<sup>1</sup> · Tarun Kumar Misra<sup>1</sup>

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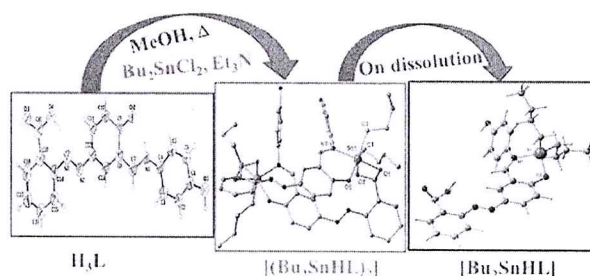
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## Abstract

The structure of the 2-((E)-((Z)-3-(((4-hydroxyphenyl)amino)methylene)-4-oxocyclohexa-1,5-dien-1-yl)diazenyl)benzoic acid ( $H_3L$ ) was confirmed by single crystal X-ray diffraction and Hirshfeld surface analysis was used further to quantify the intermolecular interactions. It crystallized in monoclinic space group  $P2_1/c$ . The observed bond distances evidence that the structure exists predominately in azo-enamine tautomeric form in the solid state. A novel dibutyltin(IV) complex,  $[(Bu_2SnHL)_2]$  (**I**) was synthesized from  $H_3L$ . The complex was then characterized by studying different techniques including elemental analysis, FT-IR, and NMR ( $^1H$ ,  $^{13}C$ , and  $^{119}Sn$ ) spectroscopy. In solution state, the molar mass of the compound was confirmed by Mass spectrometry. Spectroscopy study guides to predict the structure of the complex which is supposed to be a cyclic dimer  $[(Bu_2SnHL)_2]$  and Sn(IV) adopts a six-coordinated geometry. However, in solution Sn(IV) adopts four coordinated distorted tetrahedral geometry which was supported by  $^{119}Sn$  NMR spectroscopy ( $\delta_{Sn(119)}$ , 126.34 ppm) and EI-MS results of the complex ion  $[(C_{28}H_{32}N_3O_4Sn)]^+$ ,  $m/z$  593.1). Further, the structures in solid and solution state were supported by developing their optimized structures and IR data from the DFT calculation.

## Graphical Abstract

The crystal structure of the ligand is in azo-enamine tautomeric form and in accordance with DFT study, its dibutyltin(IV) complex is a cyclic dimer,  $(Bu_2SnHL)_2$ , which becomes monomer in solution.



**Keywords** Dibutyltin(IV) complex · X-ray structure · DFT · Spectroscopy · Mass spectrometry · Hirshfeld surface analysis

Extended author information available on the last page of the article

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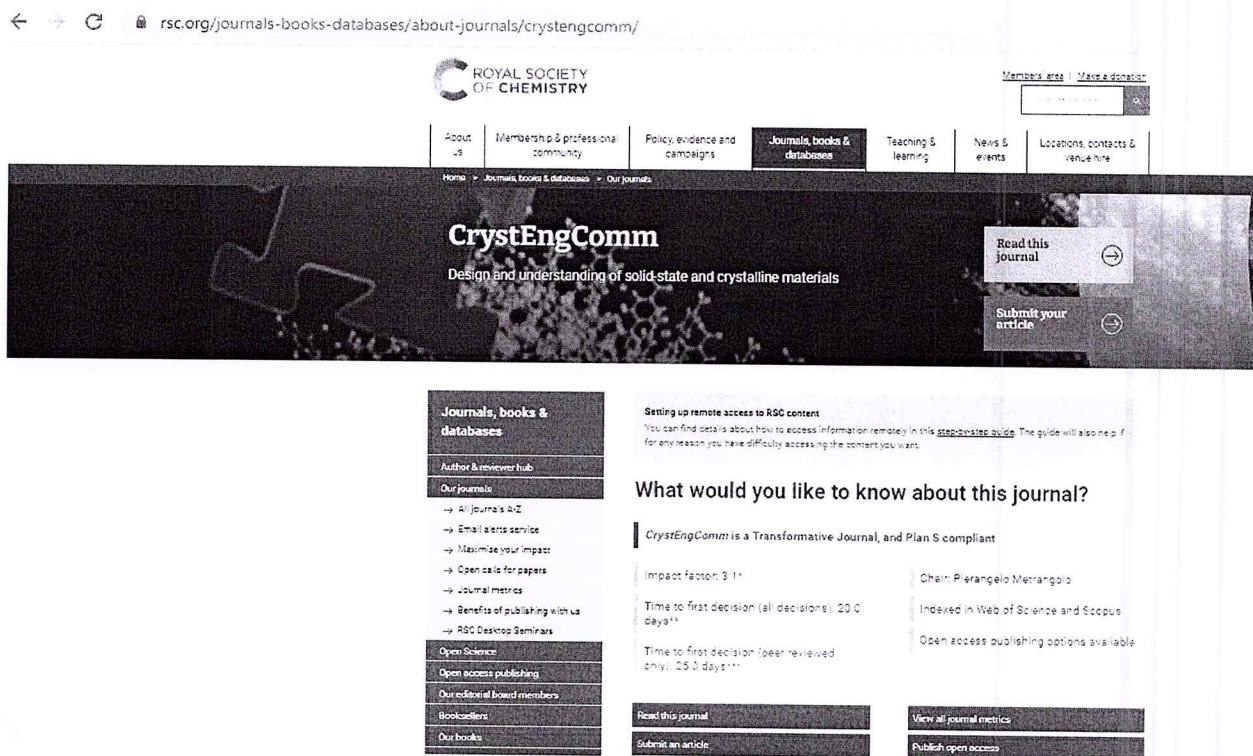
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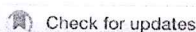
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Cite this: DOI: 10.1039/d3ce00871a

## Two isostructural complexes of Ni(II) and Zn(II) with violurate and pyridine: a detailed structural, theoretical, magnetic, and NMR investigation†

Subhadip Roy,<sup>a</sup> Susital Mal,<sup>c</sup> Rupak Banik,<sup>a</sup> Subrata Das,<sup>b,c</sup> Lubor Dlhán,<sup>d</sup> Ján Titiš,<sup>e</sup> Roman Boča,<sup>e</sup> Alexander M. Kirillov,<sup>f</sup> Alexander S. Novikov,<sup>g</sup> Paul Hazendonk,<sup>h</sup> Ray J. Butcher,<sup>i</sup> Antonio Bauza<sup>j</sup> and Antonio Frontera<sup>k</sup>

Two new metall(II) complexes [M(dmvl)(py)<sub>2</sub>]<sub>n</sub>·3H<sub>2</sub>O (M = Ni (1), Zn (2)) were self-assembled from a metall(II) chloride salt, *N,N'*-dimethylvioluric acid (Hdmvl), and pyridine (py). They were isolated as stable crystalline solids and characterized, including by single crystal X-ray diffraction. Structures 1 and 2 are composed of discrete [M(dmvl)<sub>2</sub>(py)<sub>2</sub>]<sub>n</sub> blocks in which the six-coordinate metall(II) atoms show a slightly distorted (MN<sub>4</sub>O<sub>2</sub>) octahedral geometry. The adjacent [M(dmvl)<sub>2</sub>(py)<sub>2</sub>]<sub>n</sub> units are hydrogen bonded with an involvement of disordered water clusters into 1D H-bonded chains. DFT calculations were used to analyse the unconventional anti-parallel C=O...C=O interaction observed between the monomeric units in 1 and 2. Complex 1 also refers to an elongated tetragonal bipyramid for which a positive zero-field splitting is confirmed by magnetic studies. The complex matches the magnetostructural *D*-correlation for hexacoordinate Ni(II) complexes with moderate structural and magnetic anisotropy with  $D_{\text{str}} = +7.45$  pm, and  $D_{\text{mag}} = +5.11$  cm<sup>-1</sup>. Solution state NMR spectroscopy reveals a slow isomerization process related to the bidentate-*N,O* and bidentate-*O,O* coordination of dimethylviolurate in 2, with the barrier ranging from 76.4 to 77.9 kJ mol<sup>-1</sup>. The <sup>1</sup>H NMR spectra confirm the presence of three water molecules which exhibit significant chemical shift dependence on temperature indicating strong binding to the complex in solution phase.

Received 3rd September 2023,  
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### Introduction

Barbituric acid and its derivatives are widely acknowledged as excellent building blocks for the development of coordination and supramolecular compounds, encompassing a diverse range of distinct mono- and polynuclear metal complexes, organic-inorganic hybrids, coordination polymers, metal-organic frameworks, covalent organic frameworks, molecular motors, and heterocyclic and carbocyclic compounds.<sup>1</sup> Among the plethora of barbituric acid derivatives, violuric acid (H<sub>2</sub>VI)

and *N,N'*-dimethylvioluric acid (Hdmvl) (Scheme 1) represent interesting examples containing a C=N-OH substituent at the 5-position on the barbiturate ring. This substituent endows violurates with additional coordination sites compared to barbituric acid and furthermore provides a large variety of binding behaviour, as depicted in Scheme 2. These molecules can also be considered as excellent building blocks for supramolecular chemistry due to their abundance of hydrogen bond donor and acceptor sites as well as the presence of a pyrimidine ring moiety that facilitates  $\pi$ -stacking interactions.

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## Azo-benzoic acid derivatives directed dinuclear and tetranuclear association of trimethyltin(IV) complex components and their biological activities

Pratima Debnath<sup>a</sup>, Paresh Debnath<sup>a,1</sup>, Subhadip Roy<sup>c</sup>, Maisnam Babita Devi<sup>d</sup>, Mutum Mona Devi<sup>d</sup>, Kananbala Sarangthem<sup>d</sup>, S. Sureshkumar Singh<sup>d</sup>, Manojit Roy<sup>a,\*</sup>, Alexander S. Novikov<sup>e,1,\*</sup>, Tarun Kumar Misra<sup>a,1,\*</sup>

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### ARTICLE INFO

#### Keywords:

Tin organotin(IV) complexes  
μ-OH bridge  
Cyclic dinuclear structure  
Antidiabetic activities  
Antioxidant activities

### ABSTRACT

Two new trimethyltin(IV) complexes including dinuclear-[(H<sub>2</sub>O)Me<sub>3</sub>Sn-μ-OH-SnMe<sub>3</sub>(H<sub>2</sub>L<sup>1</sup>)] (**1**) and tetranuclear-[(Me<sub>3</sub>Sn)<sub>2</sub>(HOMe)H<sub>4</sub>L<sup>2</sup>]<sub>2</sub> (**2**) were synthesized by the reaction of 2-[2-(8-oxoquinolin-5(8H)-ylidene)hydrazinyl] benzoic acid (H<sub>2</sub>L<sup>1</sup>) and 2-[4-(4-hydroxy-3-(4-hydroxy-3-carboxyphenyliminomethyl)phenylazo)benzoic acid (H<sub>4</sub>L<sup>2</sup>), respectively with trimethyltin(IV) chloride. The complexes were characterized using sophisticated spectroscopic tools and single crystal X-ray crystallographic analysis. The structure of the complex **1** is dinuclear and is made up of two Me<sub>3</sub>Sn(IV) centres connected by a hydroxyl (μ-OH) group. The carboxylate group from the H<sub>2</sub>L<sup>1</sup> ligand and a water molecule are each responsible for coordinating the terminal edges of the two distinct tin centres. In the structure of complex **2**, which is tetranuclear in nature, a cyclic loop containing two symmetry-related Me<sub>3</sub>Sn(IV) units is confined by the alternate carboxylate-O and phenoxide-O atoms from the two H<sub>4</sub>L<sup>2</sup> ligands. The remaining carboxylate groups from H<sub>4</sub>L<sup>2</sup> ligands are attached to the other two terminal symmetry-related Me<sub>3</sub>Sn(IV) units, which are further bound by the methanol-O atoms, thereby preventing extended molecular structure. According to Hirshfeld surface and DFT topological analysis, the weak noncovalent interactions involving H-bonding are substantially responsible for the molecular packing. According to the <sup>119</sup>Sn-NMR spectra, the hydroxo-bridge bonds of **1** in the solid state break to form two dissimilar tetrahedral environment about two Sn(IV) units in solution. Whereas, in complex **2**, the phenolate-O-Sn bonds in the solid state break to form a trigonal bipyramidal and a tetrahedral geometries around Sn(IV) linked by the H<sub>4</sub>L<sup>2</sup> ligand in the solution, as if the ligand H<sub>4</sub>L<sup>2</sup> holds Me<sub>3</sub>Sn(IV) and Me<sub>3</sub>Sn(IV)(OMe) units by its two carboxylate hands. The study of antidiabetic activities of the synthesized compounds against α-glucosidase and α-amylase reveal that the ligand H<sub>4</sub>L<sup>2</sup> and complex **1** have efficient α-amylase inhibitory characteristics. In addition, the results of anti-oxidant activities indicate that complex **2** possesses promising activity and thus could be employed as an excellent antioxidant.

### 1. Introduction

Organotin (IV) compounds are typically produced by the reaction of tin with a hydrocarbon substituent, and the study of organotin(IV) compounds encompasses a substantial portion of organometallic

chemistry. The field of organotin(IV) compounds is progressively expanding and gaining interest due to their interactions with various biomolecules [1]. To investigate the biological efficacy of organotin(IV) compounds, it is necessary to determine the coordination environment of organotin(IV) species with various biomolecules [2]. Organotin(IV)

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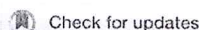
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## Electron transfer catalysis mediated by 3d complexes of redox non-innocent ligands possessing an azo function: a perspective†

Alok Apan Swatiputra,<sup>‡</sup> Debaarjun Mukherjee,<sup>‡</sup> Soumitra Dinda,<sup>‡</sup> Subhadip Roy,<sup>‡</sup> Kausikisankar Pramanik<sup>\*,‡</sup> and Sanjib Ganguly<sup>\*,‡</sup>

It was first reported almost two decades ago that ligands with azo functions are capable of accepting electron(s) upon coordination to produce azo-anion radical complexes, thereby exhibiting redox non-innocence. Over the past two decades, there have been numerous reports of such complexes along with their structures and diverse characteristics. The ability of a coordinated azo function to accept one or more electron(s), thereby acting as an electron reservoir, is currently employed to carry out electron transfer catalysis since they can undergo redox transformation at mild potentials due to the presence of energetically accessible energy levels. The cooperative involvement of redox non-innocent ligand(s) containing an azo group and the coordinated metal centre can adjust and modulate the Lewis acidity of the latter through selective ligand-centred redox events, thereby manipulating the capacity of the metal centre to bind to the substrate. We have summarized the list of first row transition metal complexes of iron, cobalt, nickel, copper and zinc with redox non-innocent ligands incorporating an azo function that have been exploited as electron transfer catalysts to effectuate sustainable synthesis of a wide variety of useful chemicals. These include ketazines, pyrimidines, benzothiazole, benzoxazoles, *N*-acyl hydrazones, quinazoline-4(3*H*)-ones, C-3 alkylated indoles, *N*-alkylated anilines and *N*-alkylated heteroamines. The reaction pathways, as demonstrated by catalytic loops, reveal that the azo function of a coordinated ligand can act as an electron sink in the initial steps to bring about alcohol oxidation and thereafter, they serve as an electron pool to produce the final products either via HAT or PCET processes.

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### 1. Introduction

Over the years, scientists have endeavoured to develop highly efficient and selective new catalysts to synthesise essential chemicals and commodities in order to meet the needs of an ever-expanding global population and this is also inevitable from a sustainability and energy conservation standpoint. In this regard, several transition-metal complexes are demonstrated to function as homogeneous catalysts for carrying out several transformations quite efficiently under ambient conditions of temperature and pressure. Several review articles

have been published to elucidate the role of such complexes in catalysis as well as to understand the probable mechanism of their catalytic action.<sup>1–10</sup> In the majority of these cases, electronic properties and/or steric encumbrance of the ligand framework have been exploited to regulate catalytic performances and it has been observed that metal centres are directly involved in the catalytic process while the ligands are considered to be spectators in the truest sense. In the past two decades, the chemistry of transition metal complexes with redox-active ligands has made enthralling progress. The idea of redox non-innocence of a ligand was introduced by Jørgensen in 1966 for those types of ligands that may have ambiguity in their oxidation levels.<sup>11</sup> Such ligands possess a low-lying LUMO or a higher energy HOMO that may facilitate the delocalization of the electron density of their complexes, thereby promoting redox reactions within the potential range in which they can be active.<sup>12–22</sup> In turn, this may endow them with the ability to achieve unusual reactivity via harmonizing the loss or gain of both protons and electrons (PCET), thereby allowing the ligand skeleton to adopt diverse canonical forms and subsequently providing novel properties to

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†Electronic supplementary information (ESI) available. See DOI: <https://doi.org/10.1039/d3dt02567e>

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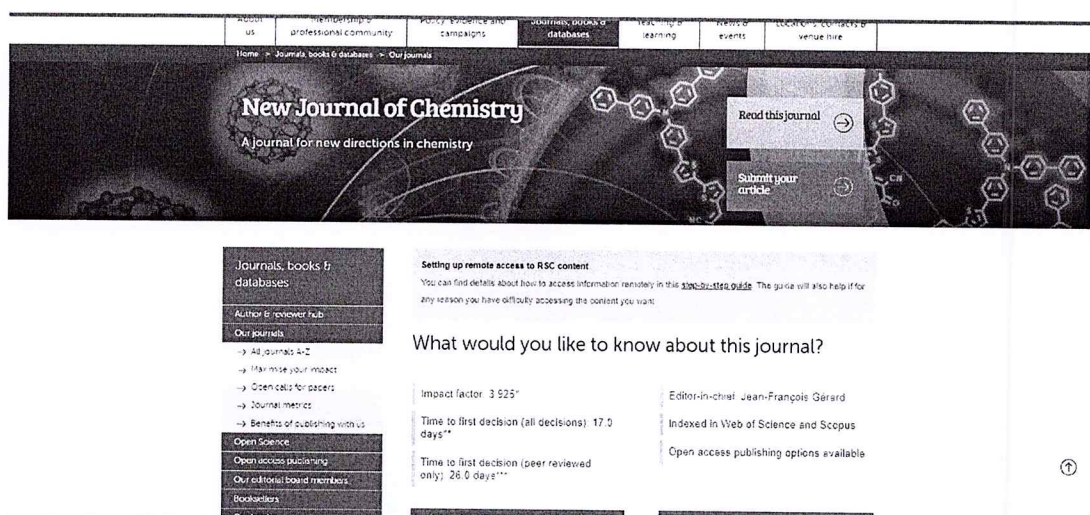
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## Investigations on a mononuclear Cu(II) Schiff base complex: theoretical calculations, catechol oxidase activity, and protein binding interaction analysis†

Bilash Chandra Roy,<sup>a</sup> Biswarup Dutta,<sup>b</sup> Dipmatya Basak,<sup>c†</sup> Surajit Debnath,<sup>c†</sup> Debashis Ray<sup>a,†</sup> and Tufan Singha Mahapatra<sup>a,\*</sup>

A new mononuclear copper(II) complex [Cu(H<sub>2</sub>L)](1) has been synthesized from a Schiff base ligand (H<sub>2</sub>L) and characterized by FTIR spectroscopy, UV-vis spectroscopy, single crystal X-ray diffraction and powder X-ray diffraction. Single crystal X-ray diffraction analysis established the perfect square planar geometry around the Cu(II) ion (τ<sub>4</sub> ≈ 0), obtained by the coordination of the two N and two O atoms from the two deprotonated H<sub>2</sub>L ligands. However, the electronic spectra of complex 1 displayed a d-d transition band at 959 nm (ε = 73.5 L mol<sup>-1</sup> cm<sup>-1</sup>) in MeCN (10<sup>-3</sup> M) suggesting a moderate distortion towards tetrahedral geometry in solution. The DFT-optimized structure of complex 1 in MeCN solvent further supported the distortion of square-planar complex 1 with τ<sub>4</sub> ≈ 0.286. Complete active space self-consistent field (CASSCF) calculations in MeCN also suggested a peak at 991 nm (d<sub>xy</sub> → d<sub>x<sup>2</sup>-y<sup>2</sup>), which is a very good match with the experimental result. The existence of intermolecular hydrogen bonding interactions (O-H...O, 2.012(13) Å) was supported by Hirshfeld surface analysis. Complex 1 was screened for its potential application as a catalyst for the catalytic oxidation of 3,5-di-tert-butyl-catechol (3,5-DTBCl<sub>2</sub>) and the turnover number (k<sub>cat</sub>) was found to be 19.87 h<sup>-1</sup> in MeCN. We further explored the protein binding interaction ability of complex 1 with bovine serum albumin (BSA) protein using a UV-vis absorption study and the binding constant (K<sub>b</sub>) was determined to be 7.15 × 10<sup>5</sup> M<sup>-1</sup>. Additionally, simulation analysis was performed on BSA and human serum albumin (HSA) proteins with complex 1 to gain a more detailed perception of binding interactions at the atomic level. The simulation study indicated that complex 1 interacted more strongly with BSA with a total of 7 polar interactions than with HSA, which has 6 polar interactions. The most stable interaction with BSA had an energy minimum of -8.6 kcal mol<sup>-1</sup> with 0° RMSD.</sub>

### Introduction

Transition metal complexes with Schiff base ligands have received noteworthy interest from the scientific fraternity in the last few decades owing to their fascinating structural topology, magnetism, and catalytic and biological activity.<sup>1-6</sup>

Schiff bases have gained great importance due to their wide range of applications, such as anticancer,<sup>7,8</sup> anti-inflammatory,<sup>11,12</sup> antimicrobial,<sup>13,14</sup> antioxidant,<sup>15,16</sup> photophysical,<sup>17,18</sup> optical,<sup>19,20</sup> catalytic<sup>21,22</sup> and electrochemical properties.<sup>23,24</sup> Among all the inorganic transition metal ions copper(II)-containing compounds with an advanced mode of design have been explored for various catalytic activities, protein-complex binding studies, DNA binding and cleavage activities,<sup>25-27</sup> and antimicrobial activities.<sup>28,29</sup> Furthermore, current research investigations have displayed enormous interest in the apprehension of these activities at the molecular level and these sorts of investigations are pushing forward to the development of new biomimetic and bioinspired chemistry. Biomimetic chemistry deals with the understanding of the use of small-molecule metal complexes for specific oxidation reactions and reactivity studies under aerobic oxidation conditions. Copper is present in the active sites of various important metalloenzymes, like oxygenases and oxidases.<sup>30,31</sup> In particular, catechol oxidases are type III copper

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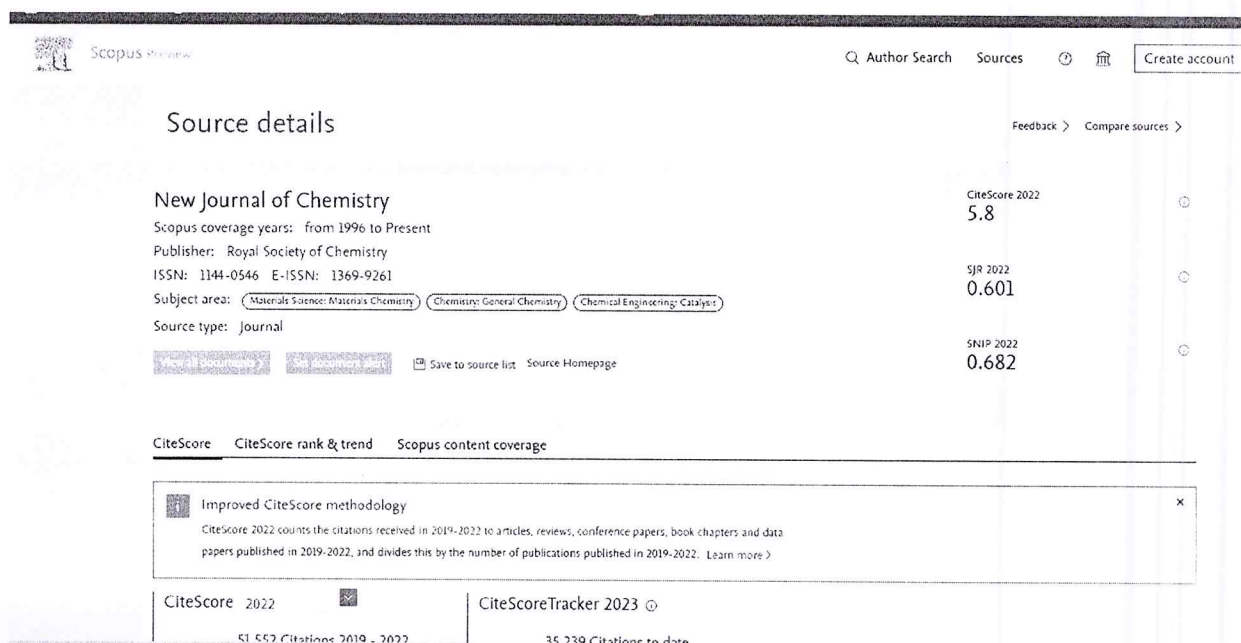
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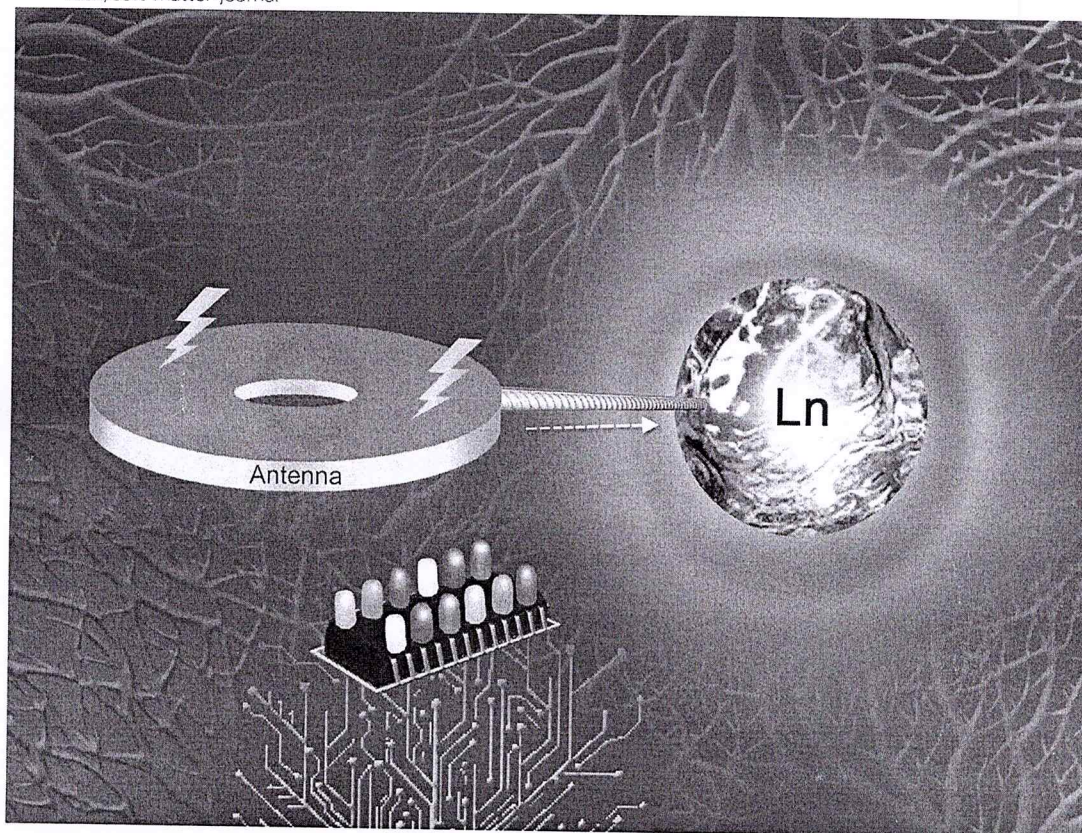


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## Recent advances in the development of europium(III) and terbium(III)-based luminescent supramolecular metallogels

Bilash Chandra Roy and Tufan Singha Mahapatra \*

In the recent past, special attention has been paid to the development of metallogels as novel luminescent materials from rationally designed gelators with lanthanide ions, especially europium (Eu(III)) and terbium (Tb(III)) metal ions. Lanthanide (Ln(III)) based metallogels possess various useful properties with an extensive range of applications in the field of advanced materials, and electronic and biotechnologies. Lanthanide ions in coordination with appropriate sensitizer ligands can reproduce metal-based optical, redox, and electronic properties in soft gel materials. The optical properties of the luminescent Ln(III) based metallogels can be tuned over the complete visible spectrum (400–750 nm) including the generation of white light by mixing both Eu(III) and Tb(III) with the ligand in various stoichiometric ratios. Additionally, the dynamic nature of the lanthanide–ligand (Ln–N) coordination bond allows the Ln(III) based metallogels to respond to various external stimuli. Luminescent self-healing supramolecular gels using organic ligands as ‘hosts’ and Ln(III) ions as ‘guests’ are also a current topic of research interest. In this review, we discuss and summarize some selected recent examples of newly developed luminescent Eu(III) and Tb(III) based supramolecular metallogels with potential applications in the fields of optoelectronic devices, stimuli responsiveness, self-healing, luminescent films, and sensors.

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Bilash Chandra Roy

Mr Bilash Chandra Roy obtained his BSc degree from Maharaja Bir Bikram College, University of Tripura in 2018. He obtained his master's degree from the Department of Chemistry, The ICFAI University Tripura, in 2020. Presently, he is pursuing his PhD under the supervision of Dr Tufan Singha Mahapatra at the ICFAI University Tripura, India. His research work focuses on the design, synthesis, and studies of 3d and 4f metal-directed self-assembled supramolecular coordination complexes.



Tufan Singha Mahapatra

Dr Tufan Singha Mahapatra received his BSc degree in chemistry from Presidency College under the University of Calcutta in 2009 and MSc (chemistry) in 2011 from the Indian Institute of Technology, Madras, India. He earned his PhD in 2017 from the Indian Institute of Technology, Kharagpur, India. He has postdoctoral research experience at the CSIR-Central Salt and Marine Chemicals Research Institute as a National Post-Doctoral Fellow under the mentorship of Dr Amitava Das, Director, from March 2017 to August 2019. Since August 2019 he has been working as an Assistant professor at the Chemistry Department at ICFAI University Tripura. His current research interests focus on the development of the lanthanide-directed synthesis of luminescent supramolecular structures including gel materials and luminescent two-dimensional lanthanide coordination nanosheets with versatile applications.

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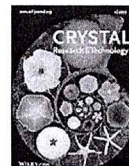
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# Design of Porous Graphene Materials from Organic Precursors

Ranjit Debnath, Prasanta Sutradhar, and Mitali Saha\*

The preparation of the porous graphene materials with controllable porosity basically depends on the design of porous architectures. The development of three-dimensional (3D) graphene materials from two-dimensional (2D) graphene sheets can harness the unique physical and electrical properties of graphene, but the challenges lie on the design and synthesis of nanoporous graphene with controlled engineering. In this work, two organic aromatic molecules viz., 2-amino-3-hydroxypyridine and phloroglucinol were targeted for the development of porous graphene nanostructures. The synthesis process was designed in such a way that both the molecules having —OH and —NH<sub>2</sub> groups at ortho position and 3 —OH groups at 1, 3, 5 positions, respectively, can generate pores along with the development of graphenic lattice during heat treatment. The optimization of reaction conditions viz., time and temperature was done and the chemistry of formation of porous natured graphenic lattice was discussed. Interestingly, the results indicate that both the organic molecules have the potential to develop porous graphenic structures within their lattice at relatively low temperatures without using any additional reagents and reaction conditions. It is suggested that the structure of organic precursor is a critical factor which needs to be optimized to produce porous graphenes.

exceptional properties, porous graphene has shown great promises for a variety of applications, especially for energy conversion and storage.<sup>18–20</sup> 2D graphene always suffers from re-aggregation problem due to the strong Van der Waals interaction during charge/discharge whereas, porous graphene not only facilitate rapid transport of electrons and ions, but also prevent agglomeration effectively.<sup>11,12</sup> At present, these porous graphene materials were prepared using template or template-free methods, where defects are being introduced in the graphene lattice planes by chemical etching, chemical activation, etc. In all these cases, high content of rich oxygen groups of graphene oxide (GO) or reduced graphene oxide (rGO) limits the electric conductivity of porous graphene. Besides, if GO flakes are introduced into porous templates, the process becomes very time-consuming and inefficient owing to big size and slow movement of GO flakes into the pores of templates. Although, CVD method give high quality porous

graphene, but graphene usually forms on the 3D surface of ligaments of the porous substrate. Hence, the challenge which has severely restrained the development of such porous graphene nanostructures lies mainly on the process of preparation with controlled engineering and cost-effective manufacturing.

In this work, a facile, efficient and industrially scalable approach was planned to prepare porous graphene materials from organic precursors in a single step at relatively low temperatures. Hence, it was decided to exploit the smaller aromatic molecules containing functional groups preferably, —OH and —NH<sub>2</sub> groups in suitable positions, which may create porosity within the graphenic lattice under normal atmospheric conditions. The synthesis process was designed in such a way that 2-amino-3-hydroxypyridine which contains —OH and —NH<sub>2</sub> groups at ortho position of pyridine and phloroglucinol with 3-OH groups at 1,3,5 positions of benzene ring if subjected to heat treatment may give rise to formation of graphene via condensation and polymerization, with simultaneous generation of pores within the structures. The effect of time and temperature on the formation of porous structures was studied. The chemistry of the development of porous structures within the graphenic lattice during heat treatment from both the precursors was elaborated and mechanism was proposed.

## 1. Introduction

Over the last few years, three-dimensional (3D) carbon materials have been paid considerable attention in the form of aerogels, hydrogels, foams, sponges, etc. with controlled porous structures.<sup>1–4</sup> However, compared to other porous carbon materials, 3D porous graphene architectures have emerged as high performance materials now a days, with high specific surface areas, strong mechanical strengths and excellent electron transport. It is basically due to the unique combination of the intrinsic properties of graphene and porous structures. With these

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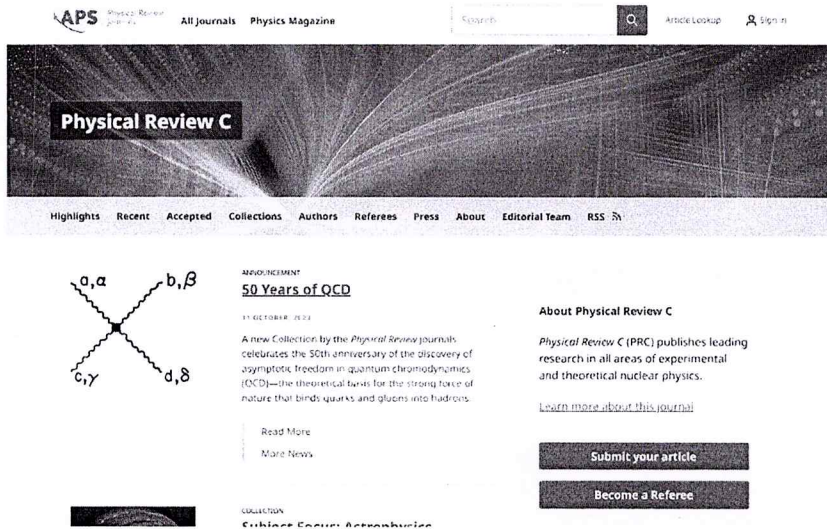


  
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**Shell effect on fission fragment mass distribution at  $E_x^*$  up to 70 MeV:  
Role of multichance fission**

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Mass distributions of fission fragments produced from the  $^{235}\text{Bk}$  compound nucleus (CN), populated by complete fission of  $^{13}\text{B}$  with  $^{235}\text{U}$ , were measured for the excitation energies in the range of  $E_x^* \approx 36.7$ – $69.7$  MeV. Nearly flat tops observed for these distributions indicate the presence of asymmetric fission, contrary to the pure Gaussian mass distributions expected at such high excitation energies. A fit to the mass distribution using three Gaussian functions provides an estimate of individual contributions from symmetric and asymmetric modes of fission. A significant contribution of the asymmetric component observed at CN excitation energies above 40 MeV can be understood only by invoking “multichance fission” in the calculations using the semiempirical model code GEF. A systematic analysis of the mass distributions for several heavy transuranic nuclei reveals that the manifestation of the fragment shell effect in the integral mass distributions are visible even up to an initial compound nucleus excitation of  $E_x^* \approx 70$  MeV due to their influence on the distributions of higher chance fissions.

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The dynamics of nuclear fission can be explained on the basis of the potential energy surface which is built using a macroscopic-microscopic model [1]. The macroscopic potential energy is obtained from the liquid drop (L.D) model [2] and the microscopic shell and pairing correction energy is obtained using Strutinsky’s prescription [3]. Though the L.D mode has been very successful in explaining nuclear fission [2], it fails to predict the asymmetric mass distribution of fission fragments (FFs). The addition of the shell effect [4] to the L.D model is not only able to explain the asymmetric nature of fission but also explains several other phenomena, such as the stability of many transuranic nuclei and long-lived superheavy elements (SHE) with  $Z$  beyond 104 for which the fission barrier vanishes [5,6], fission isomers [7], superdeformed nuclei [8], new magic numbers [9], etc. However, the shell effect on the fission mechanism is expected to wash out at higher compound nucleus excitation energies [ $E_x^*$ ] [10], where the probabilities of formation and survival of the transuranium and superheavy elements are very different from low excitation energies. Understanding of fission at high excitation energies is also important for nuclear-data evaluations related to the incineration and/or transmutation of the long-lived minor actinides into shorter-lived fission products using high energy spallation neutrons. Thus, it is important to understand the fission process both at low as well as high excitation energies and particularly the upper limit of the initial compound nucleus (CN) excitation energy where the shell effect starts disappearing.

A few measurements on the CN excitation energy dependence of the shell effect on fission fragment mass distributions involving actinide targets exist in the literature, providing different values on the limit of  $E_x^*$ . For instance, the study by Chandhuri *et al.* [11] on  $\alpha$ -induced reactions on a  $^{235}\text{Th}$  target shows that the asymmetric nature of mass distribution vanishes at the excitation energy of  $\approx 43$  MeV, whereas in a recent study by Hirose *et al.* [12] the signature of asymmetric fission was observed up to  $E_x^* = 60$  MeV. However, the data of the second study suffer from poor statistics and large bin size (10 MeV) of excitation energy as the composite nuclei were populated by multinucleon transfer reactions with cross sections much smaller than complete fusion. On the other hand, due to the use of a very thick ( $1.1 \text{ mg/cm}^2$ ) target in Ref. [11] the uncertainties in the measurement of fragment velocities increase, which in turn lead to larger uncertainties in the mass distributions. In one of the measurements of fission of  $^{230}\text{Cl}$ , populated by the  $^{238}\text{U} + ^{12}\text{C}$  reaction [13], the signatures of shell effect on fragments at scission were observed at  $E_x^* = 45$  MeV. In another measurement on fission fragment mass distribution for the compound nucleus  $^{242}\text{Pu}$  by Back *et al.* [14], it was observed that the shell effect persists certainly beyond 50 MeV of initial CN excitation energy.

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Regular Article - Experimental Physics

## Measurement of $^{58}\text{Co}(\alpha, \text{np})$ cross sections by a surrogate method

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**Abstract** The cross sections for  $^{58}\text{Co}(\alpha, \text{np})$  reactions have been determined in the equivalent neutron energy range of 11.7–16.8 MeV by employing the surrogate reaction ratio method and using the cross-section values for the reference reaction  $^{58}\text{Ni}(\alpha, \text{np})$  from the literature. The ratio reactions  $^{58}\text{Ni}(\alpha, \text{np})$  at 17 MeV and  $^{58}\text{Co}(\alpha, \text{np})$  at 33 MeV are used to populate compound nuclei  $^{60}\text{Ni}$  (surrogate of  $^{58}\text{Co}$ ) and  $^{60}\text{Co}$  (surrogate of  $^{58}\text{Ni}$ ), respectively, at similar excitation energies. The compound nucleus of backward angles measured in coincidence with the prompt-like fragments, which provide the prompt decay probability of the compound nuclei. The cross sections estimated using the surrogate method are compared with the experimental data with the experimental  $^{58}\text{Co}(\alpha, \text{np})$  data for the entire neutron energy range. However, the prediction of the evaluated data for energies  $> 11.7$  MeV, from Amalgam-2016 and ENDF-2016 is overestimated for the present experimental data, indicating the necessity to improve the model parameters of the data library for this reaction.

### 1 Introduction

Improved nuclear data for neutron-induced reaction cross sections is of utmost importance for design and technology development of advanced reactors, such as accelerator driven systems and fusion reactors. The neutron energy spectrum of these reactors covered the epithermal to fast neutron energy ranges, resulting in more threshold reaction channels such as  $(\alpha, \text{np})$ ,  $(\alpha, \text{p})$ , and  $(\alpha, \text{n})$  reactions.

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fusion. In fusion reactors, high fluence of high energy neutrons produced via D + T reaction induce variety of reactions on the structural material (reactor wall). The reactions induced by neutrons from exotic nucleus elements, such as hydrogen and helium through  $(\alpha, \text{np})$  and  $(\alpha, \text{n})$  reactions are of critical importance, as they result in swelling and embrittlement of the reactor's structural material. Furthermore, these neutron impacts result in atomic displacements within the material, producing radiation defects that alter its physical properties. In addition to these reactions, whether the chemical composition of the structural material through neutron reactions, requires to monitor changes in the material's structural and mechanical properties.  $^{58}\text{Co}$  ( $t_{1/2} = 71.4 \pm 0.7$  yr),  $^{58}\text{Ni}$  ( $t_{1/2} = 312.8$  d),  $^{58}\text{Fe}$  ( $t_{1/2} = 275$  yr),  $^{58}\text{Fe}$  ( $t_{1/2} = 1.5 \times 10^5$  yr),  $^{58}\text{Co}$  ( $t_{1/2} = 271.7$  d),  $^{58}\text{Co}$  ( $t_{1/2} = 20$  min),  $^{58}\text{Ni}$  ( $t_{1/2} = 5.27$  yr),  $^{58}\text{Ni}$  ( $t_{1/2} = 2.6 \times 10^6$  yr),  $^{58}\text{Co}$  ( $t_{1/2} = 499$  min) and  $^{58}\text{Ni}$  ( $t_{1/2} = 191$  s) are some of the radioisotopes that are produced through transmutation reactions on elements such as Mn, Fe, Ni, Co, Cu, Zn, and Sb (initial composition of stainless steel). We accurately predict the characteristics of the nuclear system and fully understand the accuracies of fusion reactors, experimental cross sections for  $(\alpha, \text{np})$  and  $(\alpha, \text{n})$  reactions involving these elements of great importance [1–4].

$^{58}\text{Co}$  is among the dominant radioisotopes produced during the fusion reactor operation, and is formed primarily through  $^{58}\text{Ni}$ ,  $^{58}\text{Fe}$ ,  $^{58}\text{Co}$ ,  $^{58}\text{Ni}$ ,  $^{58}\text{Ni}$ ,  $^{58}\text{Ni}$ ,  $^{58}\text{Ni}$ , and  $^{58}\text{Ni}$  reactions, as depicted in Fig. 1. The reactions  $^{58}\text{Ni}(\alpha, \text{np})$  and  $^{58}\text{Fe}(\alpha, \text{np})$  are known to be fast.  $^{58}\text{Co}$  ( $t_{1/2} = 71.4$  yr),  $^{58}\text{Ni}$  ( $t_{1/2} = 312.8$  d) and  $^{58}\text{Fe}$  ( $t_{1/2} = 275$  yr) have respective neutron threshold energy of 16.4, 12 and 11.7 MeV.

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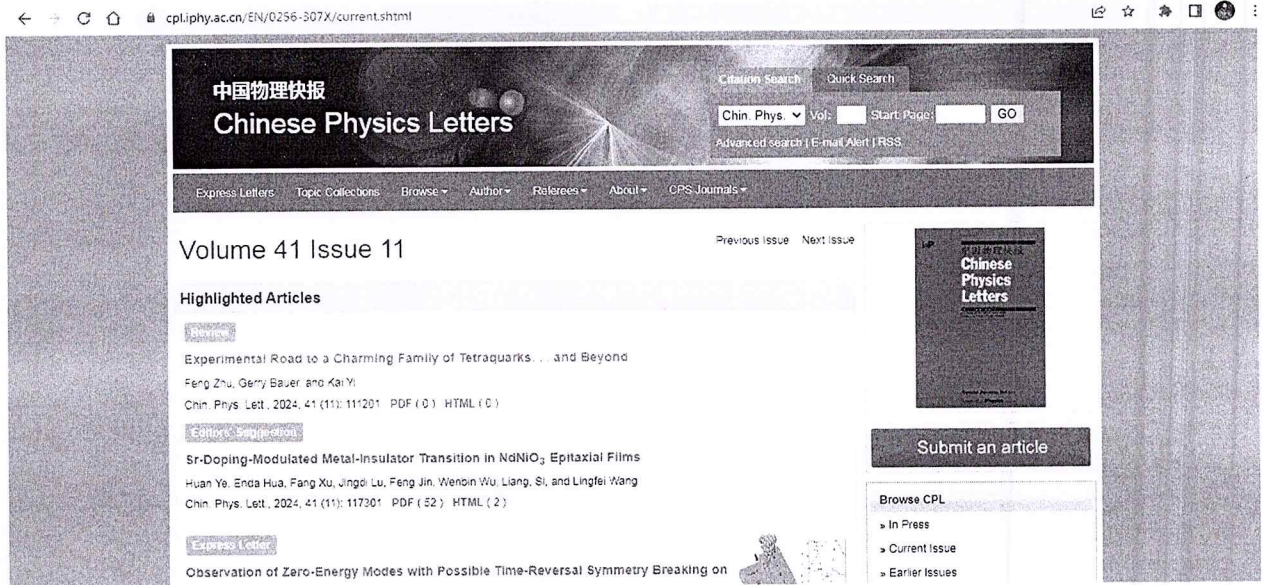
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**Dark Contributions to  $h \rightarrow \mu^+ \mu^-$  in the Presence of a  $\mu$ -Flavored Vector-Like Lepton**

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A simple extension of the standard model (SM) with a  $\mu$ -flavored vector-like lepton (VLL) doublet and a real singlet scalar can have an interesting implication to the  $h \rightarrow \mu^+ \mu^-$  decay while offering the simplest possible explanation for the dark matter (DM) phenomenology. Assuming the real singlet scalar to be a visible DM candidate, it has been shown that the muon Yukawa coupling can have a negative contribution at the one-loop order if the 2<sup>nd</sup> generation SM leptons are allowed to couple with the VLL doublet. The strongest direct detection bounds corresponding to a real singlet scalar DM can easily be relaxed if the SM quark sector was augmented with a dimension-6 operator at some new physics (NP) scale  $\Lambda_{NP}$ . Thus, this model presents a significant phenomenological study where the muon Yukawa coupling can be tested/constrained through the high luminosity run of the HL-LHC and future direct detection experiments.

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The observation of a standard model (SM)-like Higgs boson ( $\sim 125$  GeV) at the LHC<sup>[1,2]</sup> and the subsequent measurements of its couplings to the other SM particles have played a crucial role in understanding the possibilities beyond the SM. The couplings of the SM Higgs to the 3<sup>rd</sup> generation fermions and the vector bosons have already been probed within 10%-20% of their SM predictions<sup>[3]</sup>. A recent CMS search has recorded the first direct evidence of the SM Higgs decaying to a pair of muons,<sup>[4]</sup> and thus constraining the relative coupling strength of the 2<sup>nd</sup> generation leptons to the Higgs. However, the measurements indicate that still sufficient room is available there to accommodate new physics (NP) contributions which can connect other beyond standard model (BSM) phenomena to the muon Yukawa coupling, i.e., dark matter (DM) phenomenology being a notable possibility.

Significant cosmological and astrophysical evidences<sup>[5-7]</sup> exist there, which have already confirmed the presence of the DM through its gravitational interactions. Assuming the DM to be a weakly interacting massive particle (WIMP)<sup>[8]</sup> a number of BSM formulations have been proposed, where the SM Higgs acts as a portal particle between the dark sector and the standard model, i.e., extending the SM with a real singlet scalar (protected through some discrete symmetry)<sup>[9]</sup> of mass  $O(10^2)$  GeV being the simplest theoretical construction of this kind which can produce the correct relic abundance. Although the  $H$  portal model with a real singlet scalar DM has already been ruled out for  $M_{DM} \in [300, 1000]$  GeV by the current direct detection (DD) bounds,<sup>[10-12]</sup> a recent study<sup>[13]</sup> has shown that it can be revived within an effective field theory (EFT) framework if one extends the SM quark sector with a particular dimension-6 effective operator corresponding to an NP scale  $\Lambda_{NP}$ . In contrast to the earlier studies,<sup>[11-13]</sup> the present study explicitly uses the idea to describe a DD-allowed real singlet scalar DM model which, in the presence of a dark  $\mu$ -flavored vector-

like lepton (VLL), can result in a remarkable negative contribution to the muon Yukawa coupling at one-loop order. VLLs are phenomenologically well motivated<sup>[14-17]</sup> for describing an anomaly free UV complete theory,<sup>[18]</sup> whereas the flavor-specific choice helps to explain the non-observance of the lepton flavor violating processes, e.g.,  $h \rightarrow \tau_i \tau_j$ ,  $l_j \rightarrow l_i \gamma$ , and  $l_j \rightarrow \nu l_i$ . The presented results can be tested at the HL-LHC provided that the weak interaction of the DM has been verified through the future direct search experiments.

In this Letter, firstly the mathematical formulation is set up to describe the proposed model. Secondly, the collider bounds are related on various components of the parameter space. Thirdly, the DM phenomenology with a real singlet scalar WIMP is discussed. Fourthly, the correction to  $h_{\mu\mu}$  coupling is studied with a parameter space constrained through the DM observables. Finally, the results are summarized.

**The BSM Formulation.** The proposed model considers a simple extension of the SM containing a vector-like lepton doublet  $l$  (having +1 unit of muonic lepton number) and a real singlet scalar  $S$ . Both  $l$  and  $S$  are odd under a discrete  $Z_2$  symmetry which does not introduce any non-trivial transformation for the SM fields. Moreover, the model framework follows a lepton number conserving structure. Table 1 enlists the complete particle content of this model along with their gauge quantum numbers.

In addition to the BSM particles mentioned above, let us assume an effective dimension-6 operator  $\Delta C_{\mu\mu}^6$  arising at an NP scale  $\Lambda_{NP}$ , which can alter the linear alignment of mass and Yukawa coupling in the SM quark sector. Thus, the complete Lagrangian for this model reads

$$\mathcal{L} = \mathcal{L}_{SM} + \Delta C_{\mu\mu}^6 + f(i\bar{P} - m_P)l + \frac{1}{2}(l^T S)l + \frac{1}{2}(S^T S) + V(H, S) - |g_d S f + k.c.], \quad (1)$$

where  $D_\mu = \partial_\mu + i g_2 \gamma_\mu T_a + i g_1 \gamma_\mu Y$ ;  $l = (l_1^T, l_2^T)^T$  denotes the  $SU(2)_L \times$

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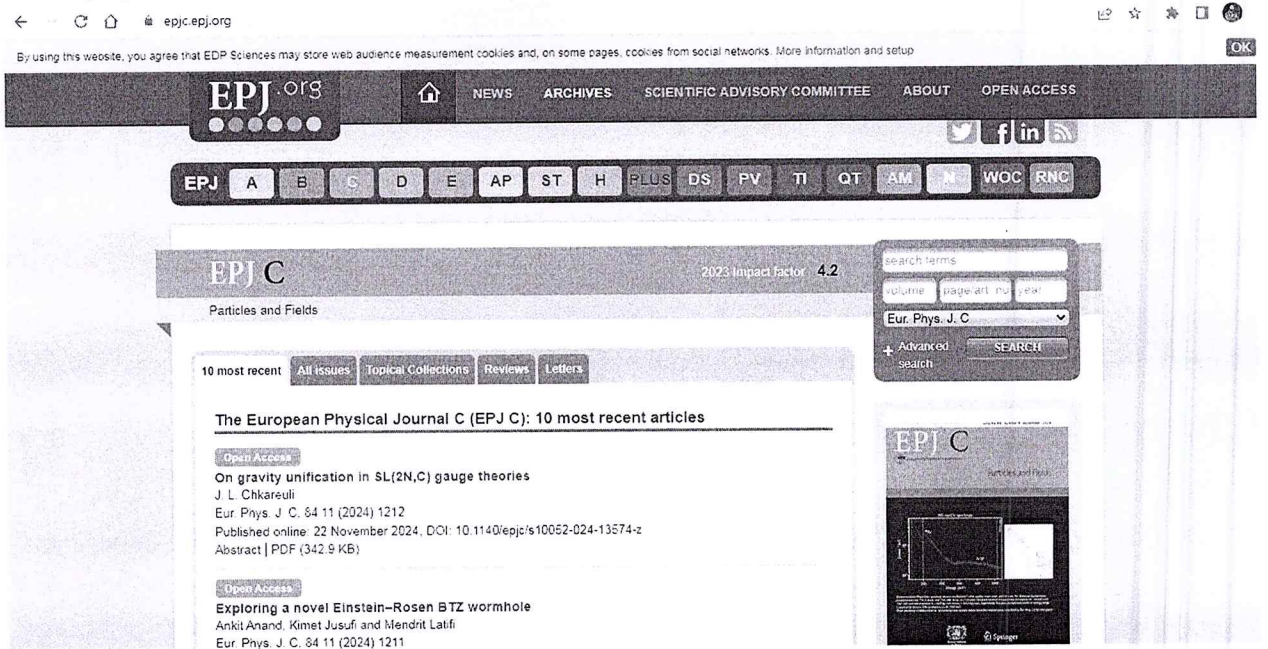
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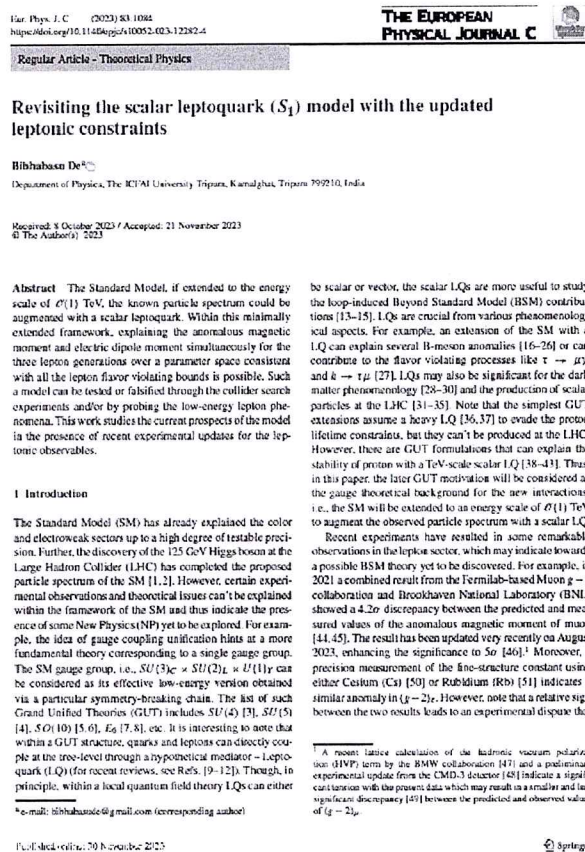


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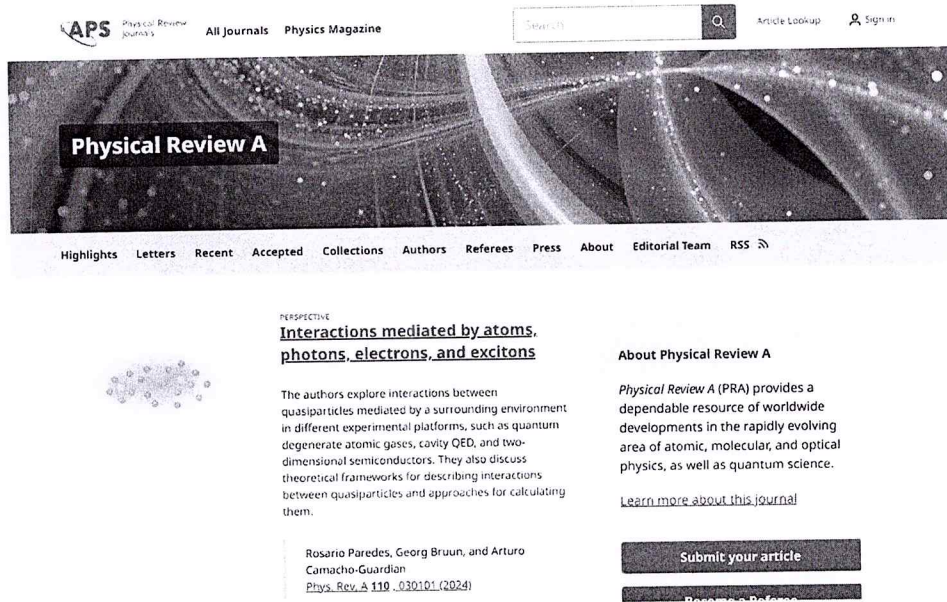
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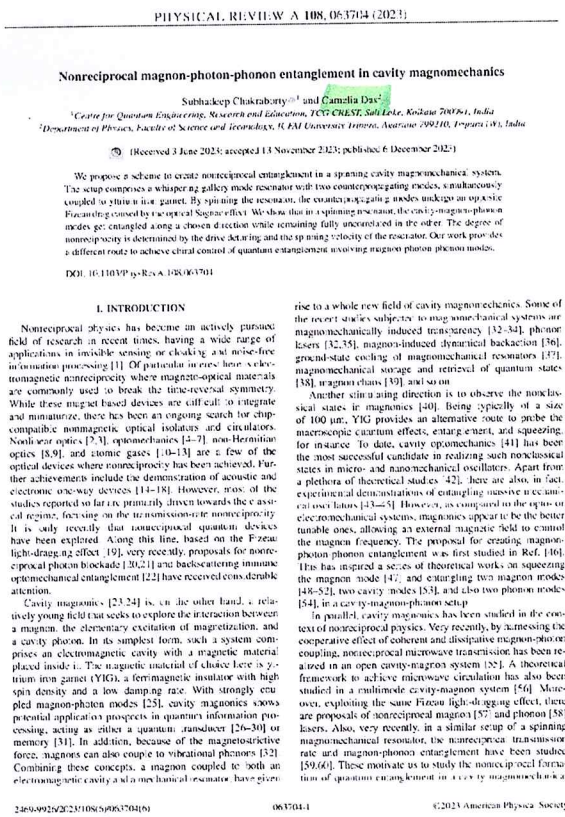
  
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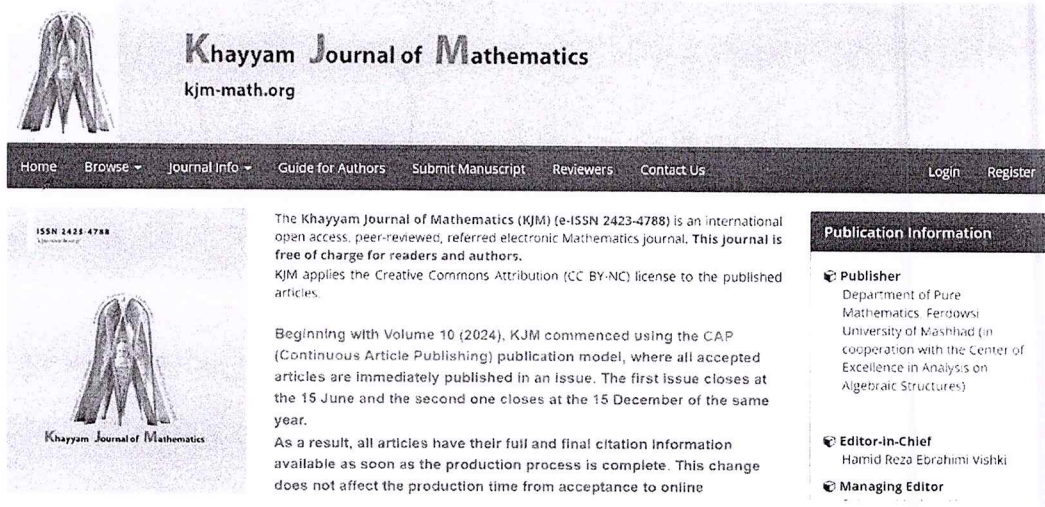
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**ON STRONGLY STAR SEMI-COMPACTNESS OF TOPOLOGICAL SPACES**

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Communicated by H. Moshiri

**Abstract.** Saitoh, Kitao, having developed strongly star semi-compactness of a topological space in 2016, which is a variant of star-compactness in which semi-open covers are employed instead of open covers. The goal of this study is to compare the structure of strongly star semi-compactness to that of other topological characteristics with similar structures. Furthermore, the nature of a strongly star semi-compact space's subspace and the heredity of a strongly star semi-compact subset relative to a space are examined.

**1. INTRODUCTION**

In 1961, Levine [15] introduced the concept of semi-open sets in topological spaces. Since then, numerous mathematicians have stretched different conceptions of topological attributes in new settings of semi-open sets and examined such aspects. A set  $A$  in a topological space  $(X, \tau)$  is semi-open if and only if there exists  $U \in \tau$  such that  $U \subseteq A \subseteq \overline{CU}$ , where  $\overline{CU}$  signifies the closure of the set  $U$ . Equivalently,  $A$  is semi-open if and only if  $A \subseteq \overline{CU \cap A}$  ( $\text{int}(A)$  represents the interior of the set  $A$ ). The complement of semi-open set  $A$  is called semi-closed [15]. A semi-regular subset of a space  $(X, \tau)$  is one that is both semi-open and semi-closed. A semi-open set may or may not be open, whereas an open set is always semi-open. The intersection of two semi-open sets may not be semi-open, but the union of any number of semi-open sets is. An open set's intersection with a semi-open set is always semi-open.

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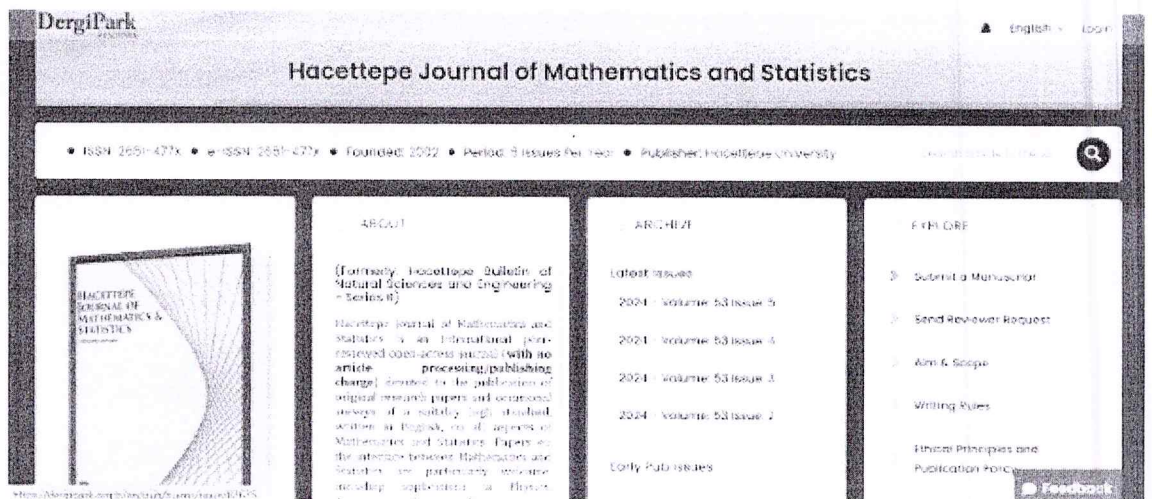
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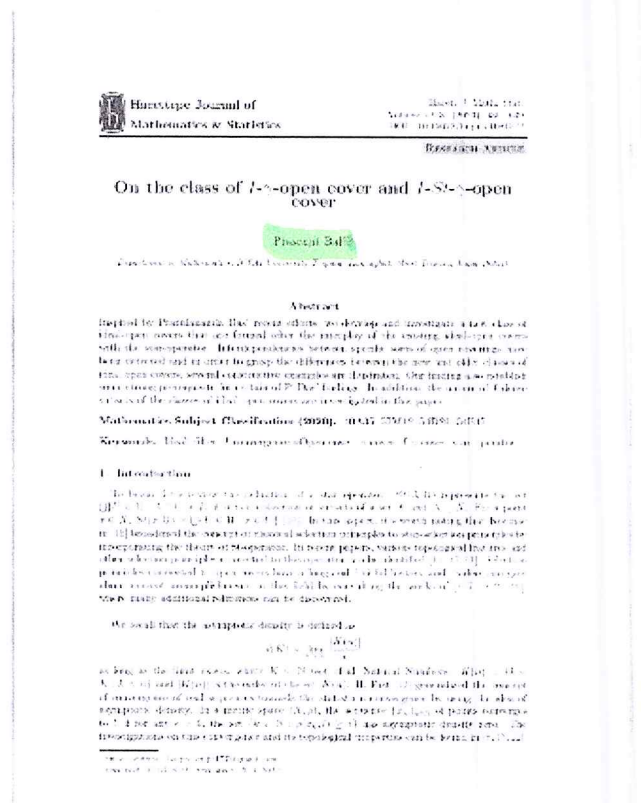
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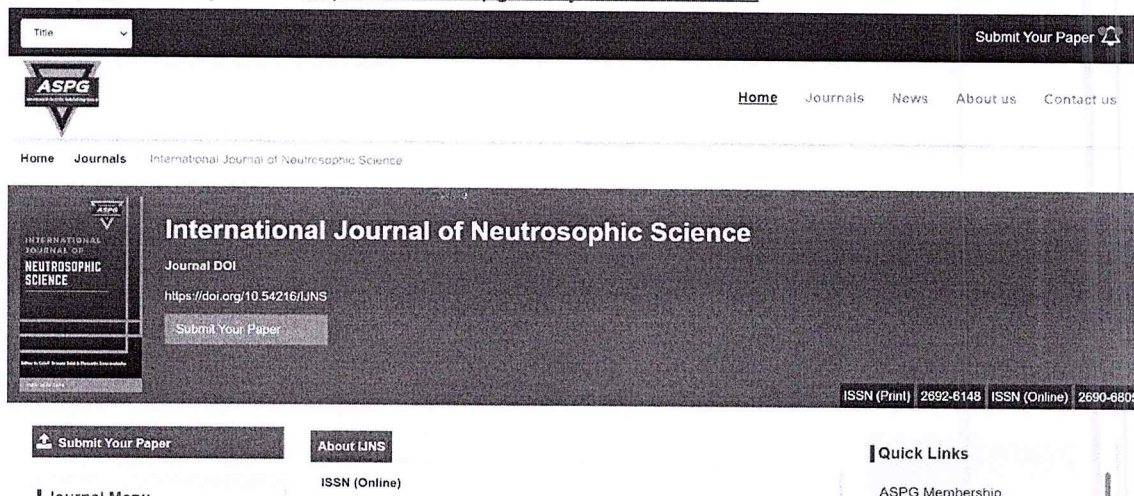
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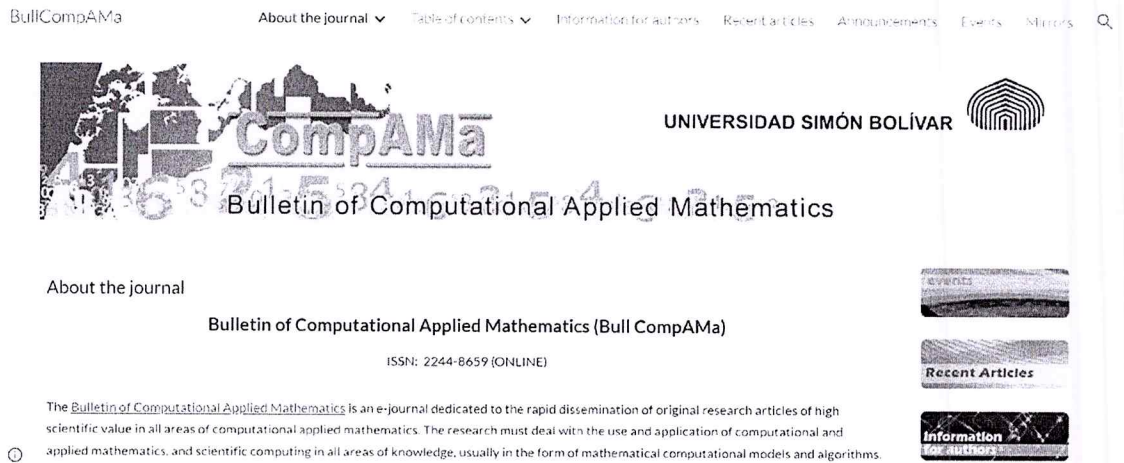
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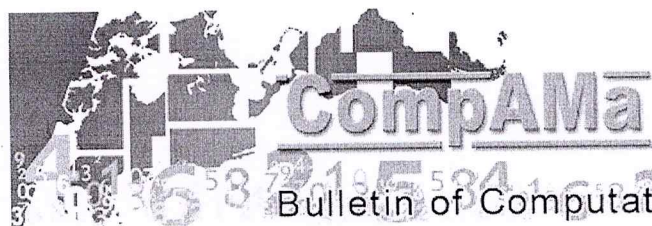
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abstract 90

## Bulletin of Computational Applied Mathematics (Bull CompAMa)

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### Single-Valued Quadripartitioned Neutrosophic Infi Pre-Open Set in Single-Valued Quadripartitioned Neutrosophic Infi Topological Space (Research Paper)

Binod Chandra Tripathy, **Rakhal Das**, Suman Das, Prasanna Poojary

In this article, an attempt has been made to introduce the notion of single-valued quadripartitioned neutrosophic infi-topological space (SVQNITS) by generalizing the concept of infi-topological space (ITS) and neutrosophic infi-topological space (NITS). Besides, we define different types of open sets, namely, single-valued quadripartitioned neutrosophic infi-open set (SVQNIOS), single-valued quadripartitioned neutrosophic infi-pre-open set (SVQNIPOS), single-valued quadripartitioned neutrosophic infi-semi-open set (SVQNISOS), single-valued quadripartitioned neutrosophic infi- $b$ -open set (SVQNI- $b$ -OS) and single-valued quadripartitioned neutrosophic infi- $\alpha$ -open set (SVQNI- $\alpha$ -OS) via SVQNITS. Then, we define some continuous mappings namely, single-valued quadripartitioned neutrosophic infi-continuous mapping (SVQNI- $C$ -mapping), single-valued quadripartitioned neutrosophic infi-pre-continuous mapping (SVQNI- $P$ - $C$ -mapping), single-valued quadripartitioned neutrosophic infi-semi-continuous mapping (SVQNI- $S$ - $C$ -mapping), single-valued quadripartitioned neutrosophic infi- $b$ -continuous function (SVQNI- $b$ - $C$ -mapping) and single-valued quadripartitioned neutrosophic infi- $\alpha$ -continuous function (SVQNI- $\alpha$ - $C$ -mapping) via SVQNITS. Further, we establish several interesting results on them in the form of theorems, propositions, remarks, etc. via SVQNITS.

Keywords: Neutrosophic Set; SVQNS; SVQNITS; Infi-Open Set; Infi-Closed Set.

Cite this paper:

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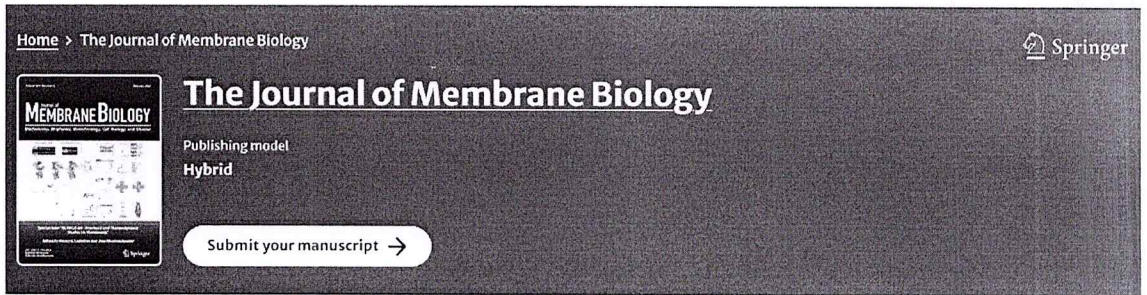
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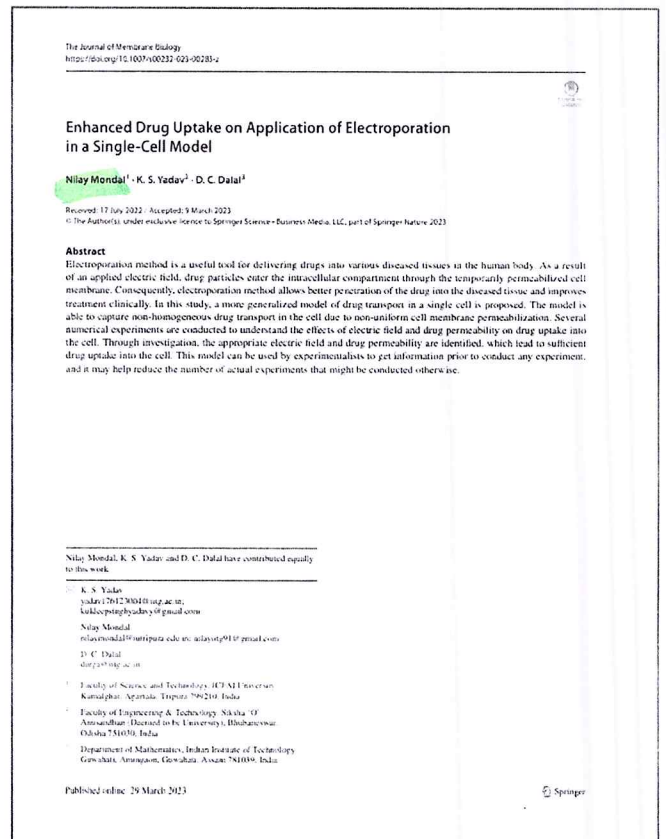
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**MULTISET MIXED TOPOLOGICAL SPACE**

BHOVICH BANSARI, TRIPATHY, AND KARKAL DAVE

**Abstract.** In this paper, an attempt has been made to extend the concept of multiset topological spaces to the context of multiset spaces. The multiset spaces and mixed topological spaces have been introduced. The notion of multiset mixed topological spaces and mixed multiset topological spaces has also been introduced. Some properties of multiset spaces, multiset mixed topological spaces and mixed multiset topological spaces have been investigated.

1. INTRODUCTION

The domain of crisp set theory or Cantor's set is not sufficient for representing the solution of all kind of mathematical problems. Since, using an element once at a time, sometimes the exact picture cannot be explicitly expressed. For example, the fundamental theorem of algebra. From the practical point of view, there are many situations where repetition of elements plays a vital role. This led the introduction of the theory of multisets, which was first studied by Ulmer (see [1]) in 1989. Thus a multiset is a collection of elements in which certain elements may occur more than once and a number of times an element occurs is called its multiplicity. The different types of collections of multisets such as power multisets, power whole multisets and power full multisets are subsets of the multiset space and operations over multisets are defined.

The number of elements in a multiset may be infinite, but the multiplicity of any element is considered as a finite quantity. That is the multiset space  $M^X$  is the collection of multisets whose elements are from  $X$  such that no element in the multiset occurs more than a finite number of times. The application of a multiset is not only limited to philosophy, logic, linguistics, and physics, but a good number of them has been observed in mathematics and computer science, which led to the formulation of a crisp set theory of multisets. Multiset like sets, are collections of elements that elements can be repeated. This concept is the generalization of crisp set theory, which can be applied to different branches of mathematics allowing to get better result from an ordinary set.

The notion of  $M$ -topological space and the concept of open multisets are introduced. Also, precisely, an  $M$ -topology is defined as a set of multisets or points. Furthermore, the notions of bases, subbases, closed sets, closure and interior in topological spaces have been extended to the  $M$ -topological spaces and many related theorems have been established. The paper concludes with the definition of continuous multiset functions and related properties, in particular, the comparison of discrete topology and discrete  $M$ -topology are established. The concept of a multiset topological space was studied by Ghosh and Jotin (see [2]). The concept of a mixed multiset topological space and quasi- $M$ -closure with a multiset point to a set is studied by Shrivastava and Tripathy (see [3]).

2. DEFINITIONS AND PRELIMINARIES

In this section, we present some basic definitions, notations and results which will be used in this paper (we may refer to Shrivastava and Tripathy (see [3])).

**Definition 1.** A domain  $X$  is defined as a set of elements from which multisets are constructed. The multiset space  $M^X$  is the set of all multisets whose elements are from  $X$  such that no element occurs more

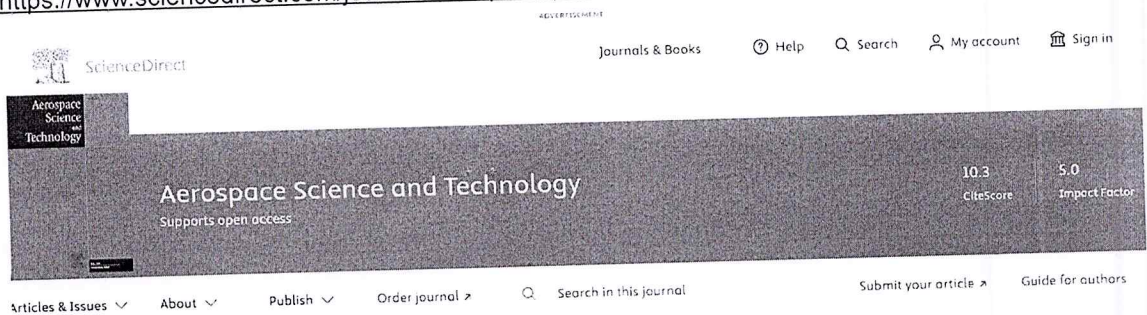
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**Phase Error Analysis of Implicit Runge–Kutta Methods: New Classes of Minimal Dissipation Low Dispersion High Order Schemes**

Subhajt Gin<sup>1,2</sup> · Shuvam Sen<sup>1</sup>

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**Abstract**  
In the current research, we analyze dissipation and dispersion characteristics of the most accurate two- and three-stage Gauss–Legendre implicit Runge–Kutta (R-K) methods. These methods, known for their stability and high stage order, are observed to carry minimum dissipation error along with the highest possible dispersive order in their respective classes. Investigation reveals that these schemes are inherently optimized to carry low phase error only at small wavenumber. It is noticed that a unique scheme, although usually sought, might not be best across diverse temporal stepsizes. As larger temporal step size is imperative in applications with implicit R-K methods for physical problems, we thoughtfully investigate to derive a class of minimum dissipation and optimally low dispersion implicit R-K schemes. Schemes are obtained by cutting down amplification error and maximum reduction of weighted phase error, suggest better accuracy for relatively bigger and varied CFL numbers. A potentially generalizable algorithm is used to design stable implicit R-K methods. As the work focuses on two- and three-stage schemes, a comprehensive comparison using numerical test cases document only modest gain in accuracy or efficiency over Gauss methods.

**Keywords** Implicit Runge–Kutta method · Wave propagation · Minimal dissipation · Low dispersion · Temporal integration · Computational acoustics

**Mathematics Subject Classification** 65L06 · 65D30 · 65M22

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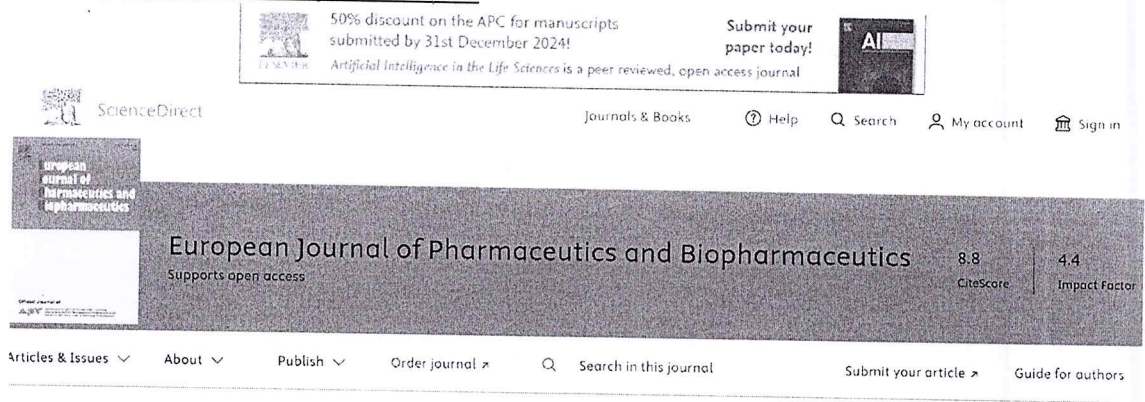
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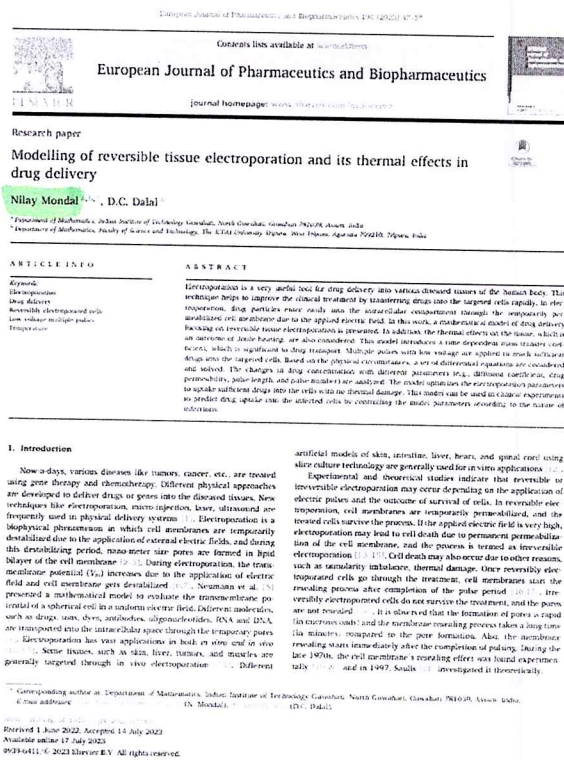


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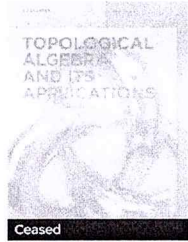
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Research Article

Prasenjit Bal\* and Debjani Rakshit

**A variation of the class of statistical  $\gamma$  covers**

<https://doi.org/10.1515/taa-2023-0101>  
received July 19, 2022; accepted July 31, 2022

**Abstract:** In this article, we introduce  $s$ - $\gamma$  cover using the notion of star operator, which is an extension of the previous results on  $s$ - $\gamma$  covers. We also define  $s$ -dense set to address the issue that a statistical dense subset of an  $s$ - $\gamma$  cover is not an  $s$ - $\gamma$  cover. Furthermore, we study some results on  $s$ - $\gamma$  covers in subspace topology.

**Keywords:** asymptotic density, open cover,  $\gamma$  cover, statistical- $\gamma$  cover, star operator

**MSC 2020:** 40A35, 54A05, 54D20, 54E15

1 Introduction

The notion of natural density or asymptotic density is defined as:

$$d(A) = \lim_{n \rightarrow \infty} \frac{|A \cap \{1, 2, \dots, n\}|}{n}$$

where  $A \subset \mathbb{N}$  (the set of all natural numbers). In this respect, it should be mentioned that Fast [16] used the concept of asymptotic density to expand the concept of usual convergence to statistical convergence (also Schoenberg [15]). After Fast's [17] and Connor's [11] work on statistical convergence, a lot of research has been carried out on this convergence and it is topological repercussions (see [13, 22, 23]).

In particular, Miao and Kodźma [22] have lately introduced the idea of statistical convergence in topological spaces as well as in uniform spaces. They also constructed a new class of open covers that arose from the interplay of an existing open cover with asymptotic density. Recently, Das [12] generalized this approach by using ideals instead of statistical density.

In [14], van Douven introduced the star operator as follows.  $St(A, U)$  represents the set  $\{U \in \mathcal{U} : A \cap U \neq \emptyset\}$  if  $A \subset X$ , and  $U$  represents a collection of subsets of  $X$ .  $St(x, U) = \{U \in \mathcal{U} : x \in U\}$  for a point  $x \in X$ . Later on, in [18–21], Younis extended the concept of selection principles to star selection principles by incorporating the star operator. Several topological properties related to this operator have been studied in many recent research studies [2–10, 24, 27–29].

Inspired by [22], we use the star operator to create and study a new class of  $\gamma$  covers in topological spaces. No particular separation axiom is assumed in this article interspersed stated.

2 Preliminaries

In this section, we have mentioned some pre-requisite definitions and results for ready references.

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Research Article

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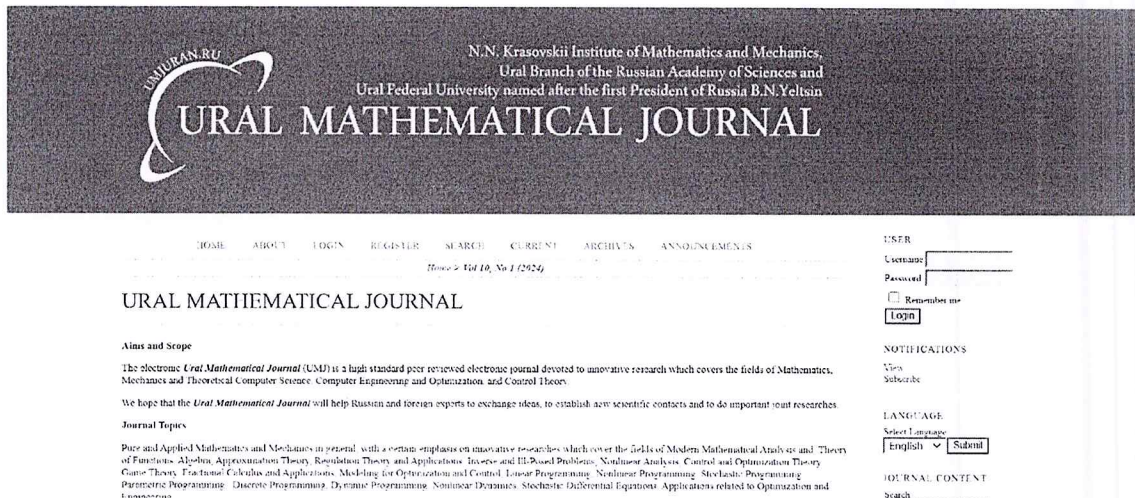
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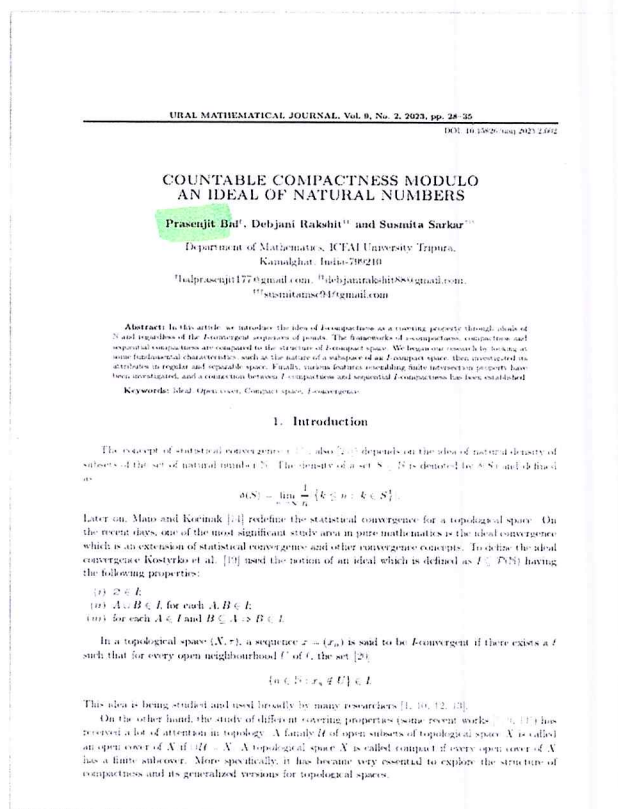
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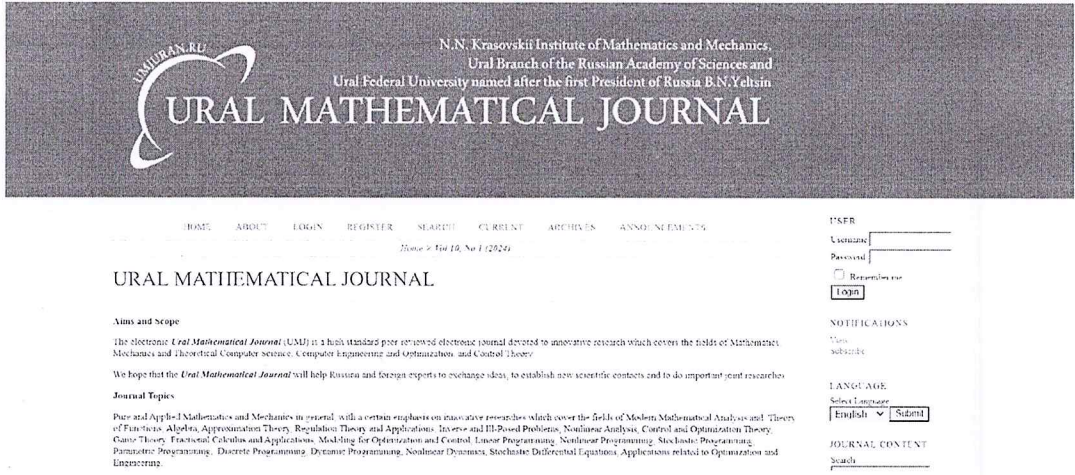
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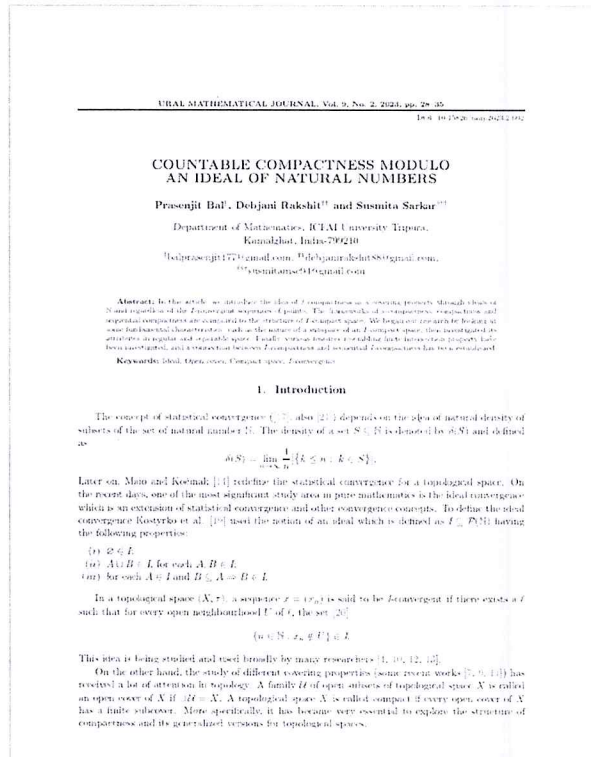
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The cover page of the journal 'Researches in Mathematics' features the title in a large serif font, with 'Res. Math.' below it. A navigation bar includes links for HOME, ABOUT, LOGIN, SEARCH, CURRENT, ARCHIVES, and FOR AUTHORS. On the right, there are links for OPEN JOURNAL SYSTEMS, Journal Help, and INFORMATION (For Readers, For Authors, For Librarians, For Admins). A LANGUAGE section allows selecting the language (English). The JOURNAL CONTENT section includes a Search bar. An announcement for April 2024 mentions the 75th anniversary of the journal and the appointment of Prof. V.F. Babenko and Prof. V.O. Kofanov to the editorial board. A small image of the journal cover is shown on the left.

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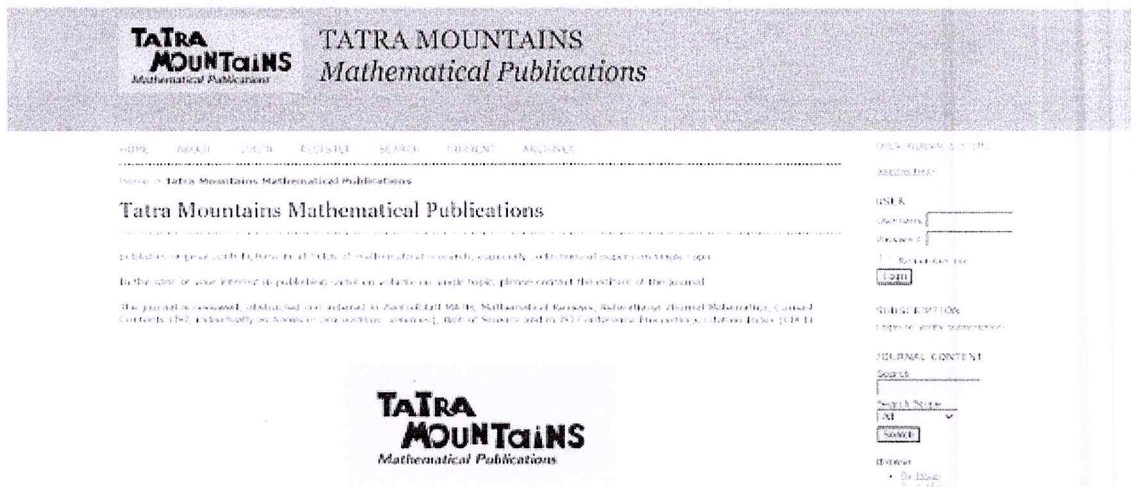
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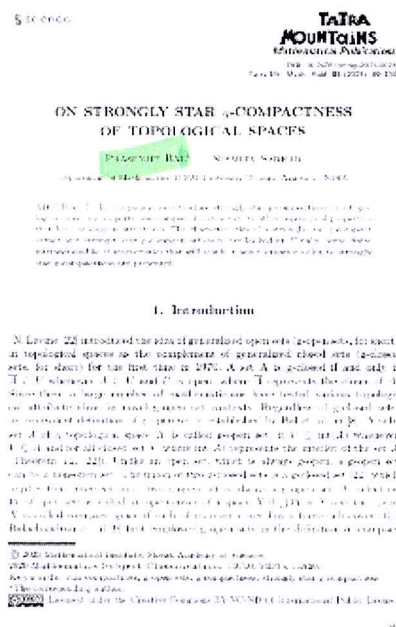
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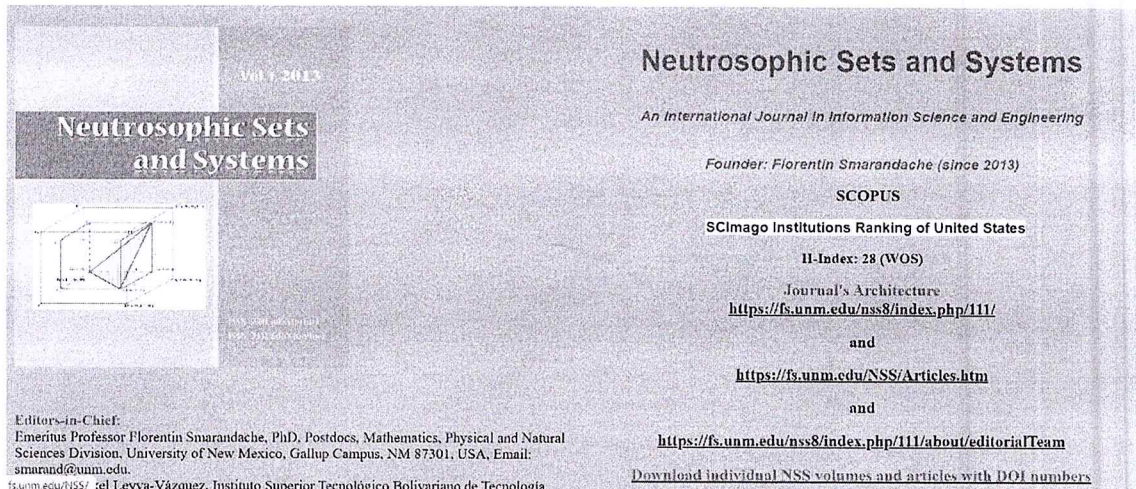
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Neutrosophic Sets and Systems

Volume 56

Article 13

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Neutrosophic BWM-TOPSIS Strategy under SVNS Environment

Surapati Pramanik

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## Neutrosophic BWM-TOPSIS Strategy under SVNS Environment

Surapati Pramanik<sup>1</sup>, Suman Das<sup>2</sup>, Rakhal Das<sup>3</sup>, and Binod Chandra Tripathy<sup>4,\*</sup>

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\*Correspondence: tripathybc@yahoo.com

**Abstract:** Decision making under an uncertain environment is a critical task. In this article, we develop a Multi Attribute Decision Making (MADM) model using BWM and Neutrosophic-TOPSIS under Single Valued Neutrosophic Set (SVNS) environment. In developed model, BWM is utilized to find the weights of the attributes those are selected by a group of experts, and the Neutrosophic-TOPSIS is utilized to rank the alternatives.

**Keywords:** Decision Making; BWM; Neutrosophic-TOPSIS; Uncertainty; SVNS.

### 1. Introduction:

In Multi- Attribute Decision Making (MADM) decision-maker determines the best choice from a set of possible alternatives subject to multiple conflicting criteria. A strategic approach requires to be performed to deal with MADM involving uncertainty. In the MADM algorithm, a decision matrix is formed by the decision-maker to find a ranking of the alternatives.

Fuzzy set theory, proposed by Zadeh [1], has been very useful in dealing with MADM problems involving uncertainty. Decision making is a successful field of study in the fields of Medical Science, Operations Research, Data Mining, Management Science, etc. In the present era there are various popular methods like AHP [2], TODIM [3, 4], VIKOR [5, 6, 7], TOPSIS [8, 9, 10], MULTIMOORA [11], GRA [12], Cross entropy measure [13], DEMATEL [14], Subsethood measure [15], aggregation operators [16], etc. to solve the MADM under uncertain environment. Among those techniques, TOPSIS received a lot of attention in the past decade and many mathematicians studied the method for solving many MADM problems in various situations. In 2011, Pramanik and Mukhopadhyay [17] presented the Multi Attribute Group Decision Making (MAGDM) approach to select the teachers based on the Grey Relational Analysis (GRA) under Intuitionistic Fuzzy Set (IFS) environment.

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Surapati Pramanik, Suman Das, Rakhal Das, Binod Chandra Tripathy, Neutrosophic BWM-TOPSIS Strategy under SVNS Environment.



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1. Cover page of the journal: <https://fs.unm.edu/NSS/>

The image shows the cover page of the journal 'Neutrosophic Sets and Systems'. On the left, there is a thumbnail of the journal cover with the title 'Neutrosophic Sets and Systems' and 'Vol. 6, 2013'. On the right, the journal's title is prominently displayed: 'Neutrosophic Sets and Systems'. Below the title, it says 'An International Journal in Information Science and Engineering'. Further down, it lists the founder: 'Founder: Florentin Smarandache (since 2013)'. It also mentions 'SCOPUS' and 'SCImago Institutions Ranking of United States' with an 'H-Index: 28 (WOS)'. The journal's architecture is provided as <https://fs.unm.edu/nss8/index.php/111/> and <https://fs.unm.edu/NSS/Articles.htm>. There is also a link to the editorial team: <https://fs.unm.edu/nss8/index.php/111/about/editorialTeam>. At the bottom, it says 'Download individual NSS volumes and articles with DOI numbers'. On the left side of the cover page, there is a diagram of a 3D cube with various points and lines, and some text about editors-in-chief: 'Editors-in-Chief: Emeritus Professor Florentin Smarandache, PhD, Postdocs, Mathematics, Physical and Natural Sciences Division, University of New Mexico, Gallup Campus, NM 87301, USA, Email: smarand@unm.edu. tel Levya-Vázquez, Instituto Superior Tecnológico Bolivariano de Tecnología, fs.unm.edu/NSS/

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### Interval Valued Pentapartitioned Neutrosophic Set

Mithun Datta

Department of Mathematics, IITM University, Papua, India, mithunag1990@gmail.com

\* Correspondence: mithunag1990@gmail.com

**Abstract.** The notions of interval valued pentapartitioned neutrosophic sets (IVPNSs), where the membership values of truth, contradiction, ignorance, unknown, and falsity always fall inside a closed interval  $[0,1]$  are introduced in this paper. Also an example of COVID-19 has been discussed using IVPNS. Later we have established some basic operations between IVPNSs and useful features of IVPNSs have also been presented and discussed.

**Keywords:** Neutrosophic set, pentapartitioned neutrosophic set, interval neutrosophic set, interval valued pentapartitioned neutrosophic set

#### 1. Introduction

There are numerous common issues in the disciplines of economics, engineering, environmental research, social science etc in everyday life that can't be solved with classical mathematics. To handle such a circumstance Fuzzy set (FS) [12], rough set (RS) [7] and intuitionistic fuzzy set (IFS) concepts [1] have all been introduced. Traditional FS theory only considers membership values and due to this IFS theory which includes both membership values as well as non-membership values, serves a crucial function in the study of uncertainties. Though the indeterminacy and inconsistent observation that exist in belief systems are not addressed by intuitionistic fuzzy set theory. In order to address this type of indeterminacy, Smarandache developed neutrosophic set (NS) [8] as an addition to IFS theory. Single valued neutrosophic sets were first established by Wang and others [10] in 2010 and this idea is expanded to establish quadripartition single valued neutrosophic sets by Chatterjee et al. [2]. Smarandache [9] classified indeterminacy into three functions in 2013 as the unknown, contradiction and ignorance membership functions and proposed five symbol valued neutrosophic logic using these functions. And he further on extended it to  $p$  types of truths,  $T_1, T_2, \dots, T_p$  and  $r$  types of indeterminacies  $I_1, I_2, \dots, I_r$  also  $s$  types of falsities  $F_1, F_2, \dots, F_s$  where  $p+r+s = n$  greater than 4, which is the most general form of fuzzy extension of today [9]. Later, adopting this idea, Mallick introduced the pentapartitioned neutrosophic set (PNS) [5], where membership functions of truthness, disagreement, lack of understanding (i.e. ignorance, unknowability, and falsehood) were taken into consideration. Das established the concept of single valued pentapartitioned neutrosophic graphs, sub graph, and complete graphs [3] to address graph theoretic challenges including indeterminacy in the form of three distinct elements viz contradictions, ignorances and unknowability. Das et al. has also proposed the Hamming distance in

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3. Indexing: <https://fs.unm.edu/NSS/PentapartitionedNeutrosophic12.pdf>

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JCHR (2023) 13(6), 2555-2559 ISSN:2251-6727

### Effect of Tabata and Sports Vision Training on Selected Biomotor Ability, Neuro psychological and Skill Performance Parameters among Men Football Players

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Assistant Professor, Faculty of Physical Education and Yoga, ICFAI University, Tripura, India.  
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†Ph.D. Scholar, Faculty of Physical Education and Yoga, ICFAI University, Tripura, India

**KEYWORDS:** Tabata training, Sports vision training, Football, Bio motor ability, Neuropsychology, Soccer skills, ANCOVA.  
**ABSTRACT:** This study examined the effects of Tabata and sports vision training on selected bio motor ability, neuropsychological and skill performance parameters among men football players. The age levels of the subjects were ranged from 18-25 years. The players were divided into three equal groups: Tabata training, sports vision training, and control group. The Tabata and sports vision training groups underwent their respective training regimens for six weeks. The following tests were conducted on all subjects before and after the training. Results of the study indicated that six weeks of Tabata training and Sports Vision training led to significant improvements in Bio motor ability, neuropsychological, and skill performance parameters among men football players. Furthermore, Tabata training evidenced more efficiency in bio motor ability when compared to Sports Vision training group. Based on the results of the study the investigator recommends that similar research can be conducted for a different sport, age and gender.

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Journal of Namibian Studies

## A Study on Attitudes Towards Physical Education Program Of Higher Secondary Girls' Students Of West Tripura

Suparna Debbarma  
 Moushmi Chakraborty, Faculty of Physical Education and Yoga, ICFAI University, Tripura, Agartala - Simla Road, Kamalghat, Maltepes, Tripura  
 Surjya Kanta Paul  
 Professor & Coordinator Faculty of Physical Education and Yoga, ICFAI University, Tripura, Agartala - Simla Road, Kamalghat, Maltepes, Tripura

Published: 2023-06-05  
 DOI: 10.3329/jns.v11i1.11911

**Abstract**  
 The study is conducted to know the attitudes of higher secondary girls' students of West Tripura towards Physical Education program. For this study 151 higher secondary school girls ages between 15-19 of west Tripura were randomly selected. Simple random sampling procedure was used for the selection of the subjects. The collected data were analyzed by using SPSS software. The results of the study are as follows: The study found that the higher secondary girls' students of West Tripura have positive attitudes towards physical education program.

Keywords: Attitudes, physical education program, curriculum

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## A Study on Attitudes Towards Physical Education Program Of Higher Secondary Girls' Students Of West Tripura

Suparna Debbarma\*\*\*, Dr. Surjya Kanta Paul\*

**Abstract**  
 The study was conducted to know the attitudes of higher secondary girls' students of West Tripura towards Physical Education program. For this study 151 higher secondary school girls' ages between 15-19 of west Tripura were randomly selected. Simple random sampling procedure was used for the selection of the subjects. The collected data were analyzed by using SPSS software. The results of the study are as follows: The study found that the higher secondary girls' students of West Tripura have positive attitudes towards physical education program.

**Introduction:**  
 Physical education is a combination of two terms 'physical' and 'education' where physical means body relating to strength, endurance, fitness, health and the overall physical appearance whereas 'education' means the systematic way of training for a particular work.  
 According to Book Walker, 'The aim of physical education is the

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# Comparative study on Attitudes towards Physical Education program between higher secondary Non-Tribal and Tribal girls with special reference to West Tripura

\*Suparna Debbarma, \*\*Dr. Surjya Kanta Paul

## Abstract

The study was conducted to compare on attitudes towards physical education program between higher secondary non-tribal and tribal girls' students with special reference to west Tripura. For this study 200 higher secondary girls (100 non-tribal and 100 tribal) ages between 16-19 of west Tripura were selected. Quota sampling procedure was employed for the selection of the subjects. To collect the data Opinionnaire by Pralhad V. Raut attitude scale towards physical education were used and the responses were employing by Likert Method. To interpret and analyse the collected data percentile, Mean, Standard Deviation and t-test technique were used. From the responses of each respondent's statement, it was found that the non-tribal and tribal higher secondary girls of west district of Tripura have positive attitude towards physical education where the calculated 't' value is -0.846 and tabulated value is 1.962 at 95% level of significant for 198 df. Where calculated value is less than tabulated value, there is no significant difference on their attitudes.

## Introduction

Tripura with geographical area of 10,491 sq. kms, which is naturally dominated by hilly areas. Most of the people mostly the tribal are living in the hills of Tripura. The economy of Tripura based on Agriculture, Fisheries, Rubber etc. where the Non tribal and tribal peoples are living together. The basic outlook towards any particular thing depends on the economical background and literacy of the family.

Here we are talking about the attitude of higher secondary non-tribal and tribal girls of west Tripura, which is mostly dominated by non-tribals, so the attitude of tribal and non-tribal may different.

In Tripura Non-tribals are (Bangalee and Manipuri) and Tribal community are (Triburi, Reang, Jamatia,

change. Positive attitude getting more when it's come from positive experience, and negative experience leads to negative attitude.

In the school curriculum all students develop some positive or negative attitudes towards every subject which develops their mental and physical health.

National Policy on Education (1986) discuss about the importance of physical education in school, to encourage the students the government are planning to build sports infrastructure which help the sports person to practice, also they are planning to include sports related studies and to give specialised attention they recruit coach and sports teacher for giving the better opportunity for the futuristic purpose in school.



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# A COMPARATIVE STUDY ON JOB SATISFACTIONS AMONG THE PHYSICAL EDUCATION PERSONNEL OF THE RURAL AND URBAN VIDYAJYOTI SCHOOLS OF TRIPURA

Mr. Laxmindar Debnath 1 Dr. Surjya Kanta Paul 2

Author

## Abstract

The present research is examined to find out the job satisfactions among the physical education personnel (PEP) of the rural and urban Vidyajyoti schools of Tripura. For this study, the researcher has selected only those schools, which are under Vidyajyoti schools. 60 physical education personnel (PEP) were selected: 30 PEP from Vidyajyoti schools, which are located in rural areas, and 30 PEP from Vidyajyoti schools, which are located in urban areas of Tripura. To obtain the data, the researcher used a questionnaire on job satisfaction that was constructed and standardized by Dr. S. K. Paul under the name of S. K. Paul's Job Satisfaction Scale. This scale was administered to the physical education personnel of the rural and urban Vidyajyoti schools in Tripura. The obtained data was analyzed using descriptive statistics and inferential statistics (t-test). Descriptive statistics implied that the data was more or less normal. And a t-test revealed that there were significant differences in job satisfaction among the physical education personnel of Vidyajyoti and private schools in the west Tripura district of Tripura. So, the present study suggests that larger-scale studies are required for more generalization.

**Keywords:** Job Satisfactions, Rural area, Urban area, Vidyajyoti schools, Physical Education Personnel

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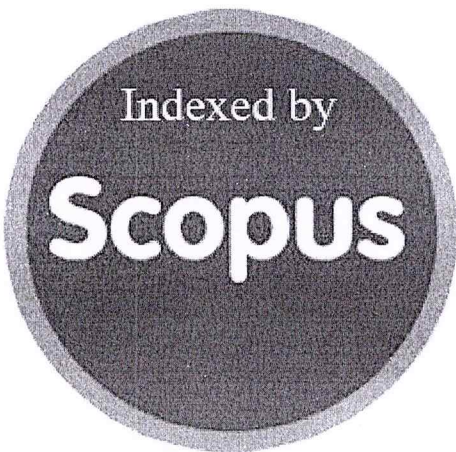
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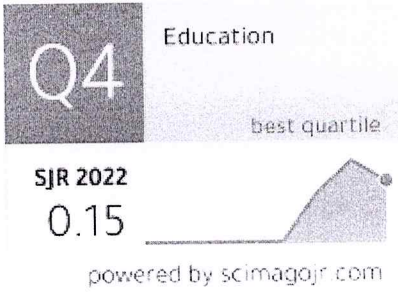
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A Comparative Study Of Job Satisfaction Among Physical Education Personnel In The Vidyajyoti Schools And Private Schools Of West Tripura District In Tripura

MR. LAMNADAR DEBGIPTA DA. SULTAN KANTA PRASAD

Abstract

The present research is intended to find out how is a relationship between job satisfaction among the physical education personnel (PEP) of Vidyajyoti Private schools in the West Tripura District of Tripura. For the study 70 physical education personnel (PEP) were selected (35 PEP from Vidyajyoti schools and 35 PEP from Private schools) from the West Tripura District of Tripura. To obtain the data the researcher used a questionnaire on job Satisfaction that was constructed and administered by Dr. D. K. Paul under the name of A. P. Job Satisfaction Scale. The data was administered to the physical education personnel of Vidyajyoti and Private schools in the West Tripura District, Tripura. The statistical data was analyzed using descriptive statistics and inferential statistics (t-test). Descriptive statistics reported that the data was high in job satisfaction. The t-test results showed that there were significant differences in job satisfaction among the physical education personnel of Vidyajyoti and Private schools in the West Tripura District of Tripura. The research indicates that job satisfaction is a complex phenomenon and requires further investigation.

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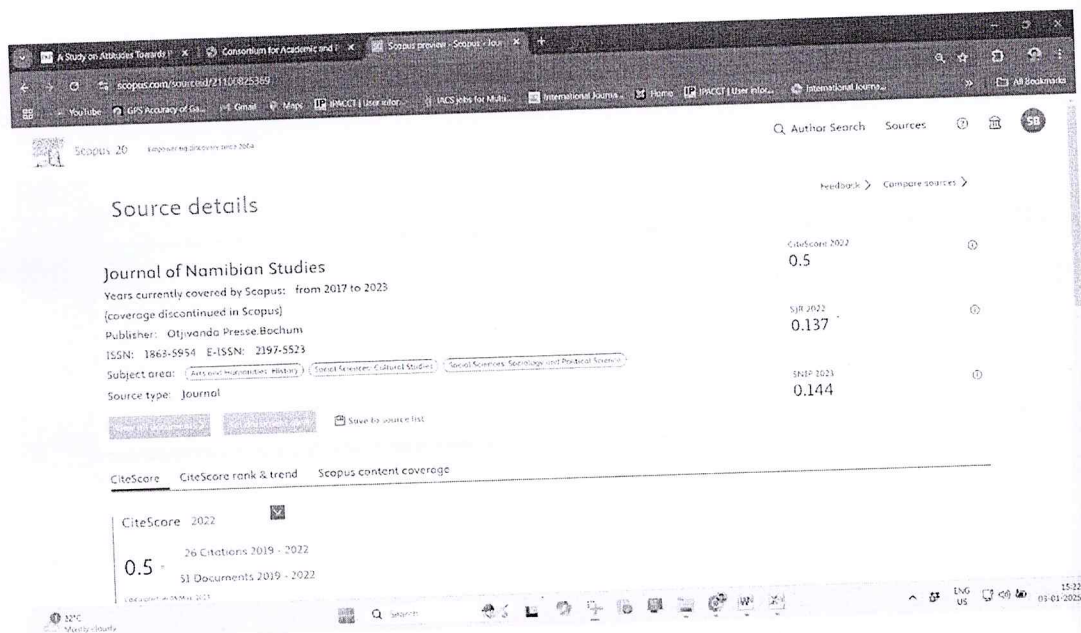
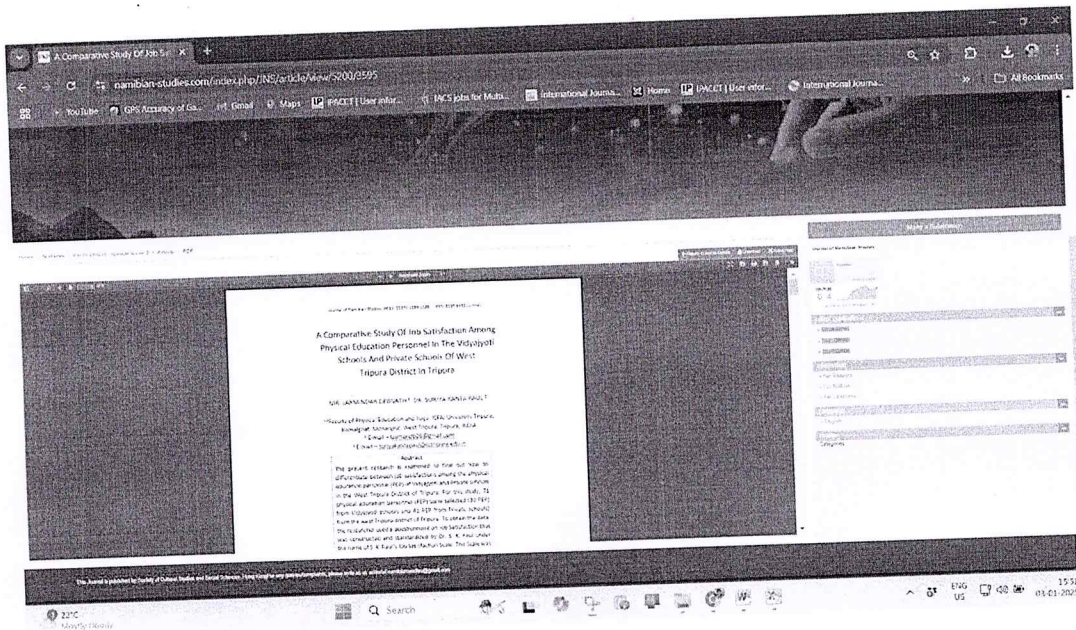
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R-106

Journal of Namibian Studies

## A Study on Attitudes Towards Physical Education Program Of Higher Secondary Girls' Students Of West Tripura

Suparno Debbarma  
 Research scholar, Faculty of Physical Education and Yoga, ICAI University, Tripura, Agartala - Simra Road, Kamalghat, Mohanpur, West Tripura  
 Surjya Kanta Paul  
 Professor & Coordinator, Faculty of Physical Education and Yoga, ICAI University Tripura - Agartala - Simra Road, Kamalghat, Mohanpur, West Tripura

Published 2023-06-19  
 DOI: <https://doi.org/10.53071/jns.v34i2744>

**Abstract**  
 The study was conducted to know the attitudes of higher secondary girls' students of West Tripura towards Physical Education program. For this study, 151 higher secondary school girls ages between 16-19 of west Tripura were randomly selected. Simple random sampling procedure was used for the selection of the subjects. The collected data pertaining to the study on attitudes of the higher secondary school girls of west Tripura towards physical education program were administered by using opinionnaire by Dr. Prithad V. Raut and the responses were noted by using Likert method. To interpret and analyse the collected data (%), Mean, Standard Deviation were used. From the responses of each respondents' statement, it was found that the Higher secondary girls' students of west Tripura have positive attitudes towards physical education program.

**Keywords:** Attitude, physical education program, curriculum

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### A Study on Attitudes Towards Physical Education Program Of Higher Secondary Girls' Students Of West Tripura.

Suparno Debbarma<sup>1\*</sup>, Dr. Surjya Kanta Paul<sup>2</sup>

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**Keywords:** Attitude, physical education program, curriculum

**Introduction:**  
 Physical education is a combination of two terms 'physical' and 'education' where physical means body relating to strength, endurance, fitness, health and the overall physical appearance whereas 'education' means the systematic way of training for a particular work.

According to book Walter, "the aim of physical education is the

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91	Dialogue Quarterly	Asha Bharati	0873-0094	NA	from June - 2019 to Present	
221	Journal of Education: Rabindra Bharati University (print only)	Department of Education, Rabindra Bharati University	0872-7175	NA	from June - 2019 to July - 2022	Discontinued from July 2022
260	Journal of Social Work and Social Development	Department of Social Work, Vijnan-Bharati	1129-6488	NA	from June - 2019 to Present	
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# Comparative study on Attitudes towards Physical Education program between higher secondary Non-Tribal and Tribal girls with special reference to West Tripura

\*Suparna Debbarma, \*\*Dr. Surjya Kanta Paul

## Abstract

The study was conducted to compare on attitudes towards physical education program between higher secondary non-tribal and tribal girls' students with special reference to west Tripura. For this study 200 higher secondary girls (100 non-tribal and 100 tribal) ages between 16-19 of west Tripura were selected. Quota sampling procedure was employed for the selection of the subjects. To collect the data Opinionnaire by Pralhad V. Raut attitude scale towards physical education were used and the responses were employing by Likert Method. To interpret and analyse the collected data percentile, Mean, Standard Deviation and t-test technique were used. From the responses of each respondent's statement, it was found that the non-tribal and tribal higher secondary girls of west district of Tripura have positive attitude towards physical education where the calculated 't' value is -0.846 and tabulated value is 1.962 at 95% level of significant for 198 df. Where calculated value is less than tabulated value, there is no significant difference on their attitudes.

## Introduction

Tripura with geographical area of 10,491 sq. kms, which is naturally dominated by hilly areas. Most of the people mostly the tribal are living in the hills of Tripura. The economy of Tripura based on Agriculture, Fisheries, Rubber etc. where the Non tribal and tribal peoples are living together. The basic outlook towards any particular thing depends on the economical background and literacy of the family.

Here we are talking about the attitude of higher secondary non-tribal and tribal girls of west Tripura, which is mostly dominated by non-tribals, so the attitude of tribal and non-tribal may different.

In Tripura Non-tribals are (Bangalee and Manipuri) and Tribal community are (Trihuri, Reang, Jamatia,

change. Positive attitude getting more when it's come from positive experience, and negative experience leads to negative attitude.

In the school curriculum all students develop some positive or negative attitudes towards every subject which develops their mental and physical health.

National Policy on Education (1986) discuss about the importance of physical education in school, to encourage the students the government are planning to build sports infrastructure which help the sports person to practice, also they are planning to include sports related studies and to give specialised attention they recruit coach and sports teacher for giving the better opportunity for the futuristic purpose in school.

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A Comparative Study Of Job Satisfaction Among Physical Education Personnel In The Vidyajyoti Schools And Private Schools Of West Tripura District In Tripura

Journal of Namibian Studies

Volume 10, Issue 1, 2023

MP LAXMIVIGAN DEBATHI, DR. TORINA KANTA PAUL

Abstract

The present research is an exploratory study to identify the differences among the physical education job holders (PEP) of Vidyajyoti Private schools in the West Tripura District of Tripura. The study is a comparative study of job satisfaction among PEPs in Vidyajyoti schools and private schools in the West Tripura District of Tripura. To obtain the data, the researcher used a questionnaire on job satisfaction that was formulated and administered by Dr. T. K. Paul under the name of M. Paul's Job Satisfaction Scale. The study was administered to the physical education personnel in Vidyajyoti and Private schools in West Tripura District, Tripura. The obtained data was analysed using descriptive statistics and inferential statistics (t-test). Descriptive statistics revealed that the job was more in the normal. And a t-test revealed that there was significant difference in job satisfaction among the physical education personnel in Vidyajyoti and private schools in the West Tripura District of Tripura. The study results suggest the need to take steps to improve the job satisfaction.

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# A COMPARATIVE STUDY ON JOB SATISFACTIONS AMONG THE PHYSICAL EDUCATION PERSONNEL OF THE RURAL AND URBAN VIDYAJYOTI SCHOOLS OF TRIPURA

Mr. Laxmindar Debnath 1 Dr. Surjya Kanta Paul 2

Author

## Abstract

The present research is examined to find out the job satisfactions among the physical education personnel (PEP) of the rural and urban Vidyajyoti schools of Tripura. For this study, the researcher has selected only those schools, which are under Vidyajyoti schools. 60 physical education personnel (PEP) were selected: 30 PEP from Vidyajyoti schools, which are located in rural areas, and 30 PEP from Vidyajyoti schools, which are located in urban areas of Tripura. To obtain the data, the researcher used a questionnaire on job satisfaction that was constructed and standardized by Dr. S. K. Paul under the name of S. K. Paul's Job Satisfaction Scale. This scale was administered to the physical education personnel of the rural and urban Vidyajyoti schools in Tripura. The obtained data was analyzed using descriptive statistics and inferential statistics (t-test). Descriptive statistics implied that the data was more or less normal. And a t-test revealed that there were significant differences in job satisfaction among the physical education personnel of Vidyajyoti and private schools in the west Tripura district of Tripura. So, the present study suggests that larger-scale studies are required for more generalization.

**Keywords:** Job Satisfactions, Rural area, Urban area, Vidyajyoti schools, Physical Education Personnel

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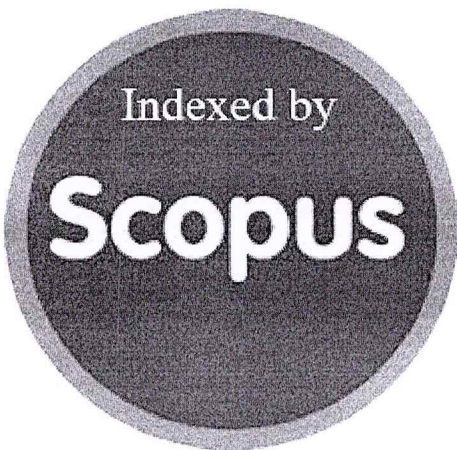
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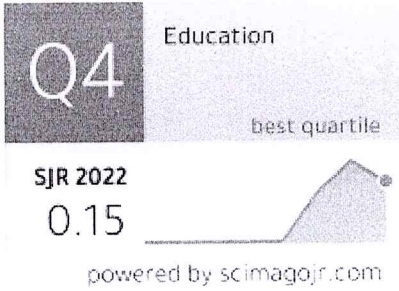
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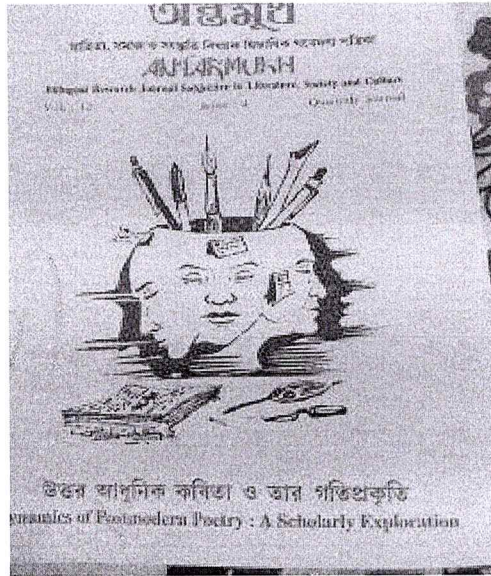
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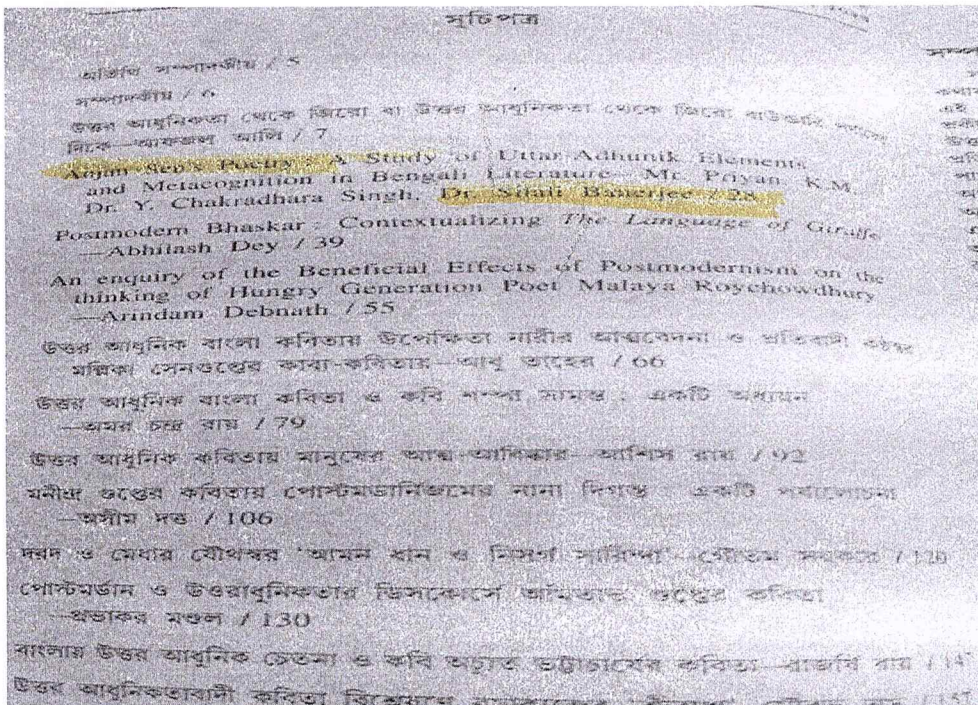
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1.	Dr. Silali Banerjee	Antarmukh (print only)	Anjan Sen's Poetry: A Study of Uttar-Adhunik Elements and Metacognition in Bengali Literature	<a href="https://antarmukh.com/">https://antarmukh.com/</a>	<a href="https://antarmukh.com/portfolio-item/dynamics-of-postmodern-poetry-a-scholarly-exploration/">https://antarmukh.com/portfolio-item/dynamics-of-postmodern-poetry-a-scholarly-exploration/</a>

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276	हिमप्रस्थ	Department of Information and Public Relations, Government of Himachal Pradesh	2454-972X	NA	from July - 2024 to Present	<a href="#">View</a>
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278	अनवरत्न (print only)	Department of Assamese, Gauhati University	2250-2475	NA	from January - 2020 to Present	<a href="#">View</a>
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Journal Title (in English Language)	Antarmukh (print only) (Current Table of Content)
Journal Title (in Regional Language)	अन्तर्मुख (print only)
Publication Language	English , Bengali
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ISSN	2249-3751
E-ISSN	NA
Discipline	Social Science
Subject	Social Sciences (all)
Focus Subject	General Social Sciences

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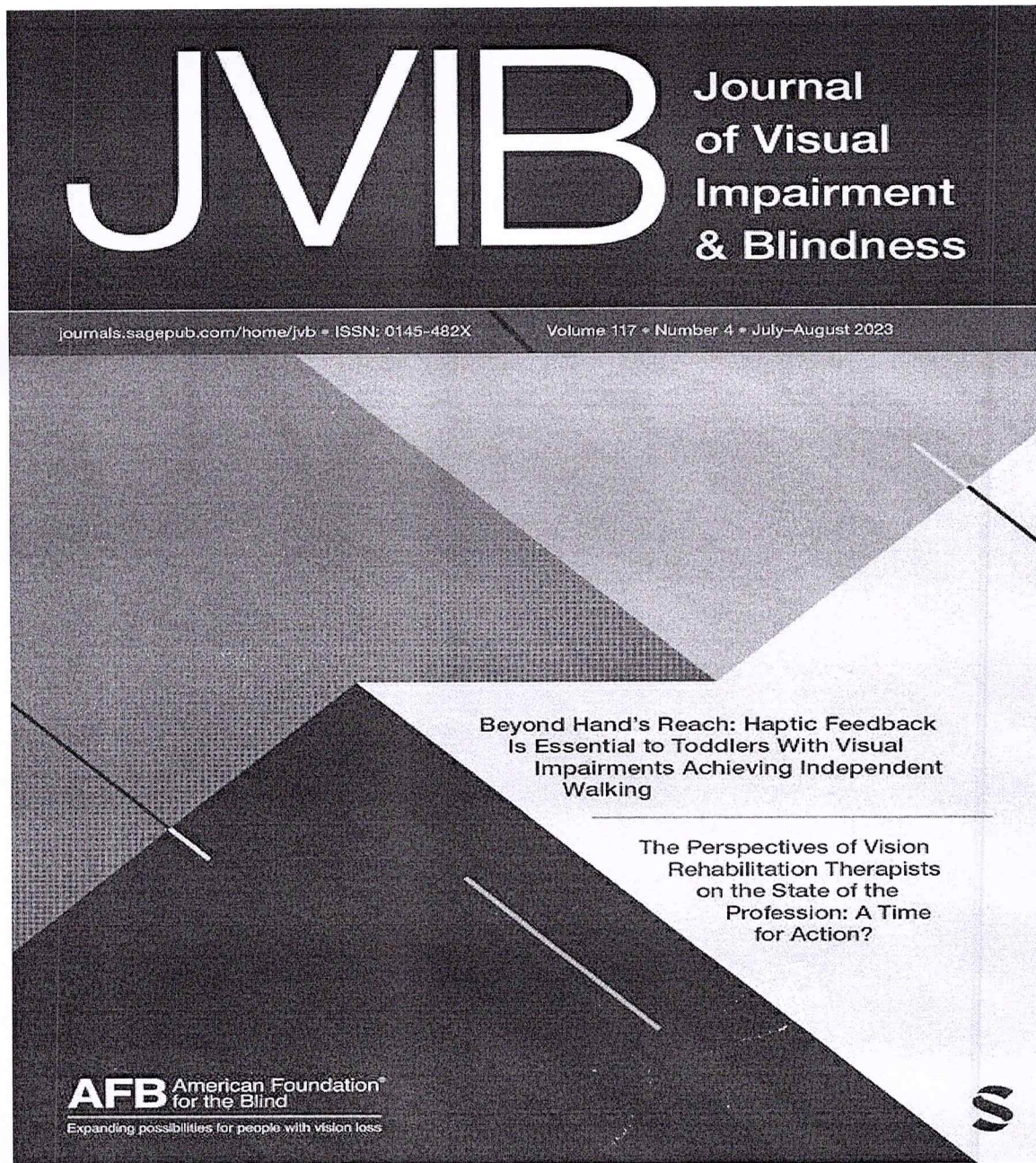
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Sl.	Name of the author	Journal	Title of the paper	Link to the journal	Link to the Abstract
1.	Ms. Madhurenu Basu	Journal of Visual Impairment and Blindness	Barriers at Workplace: Challenges for Adults with Visual Impairments – A Systematic Literature Review, Vol – 117, 2023, ISSN: 0145-482X	<a href="https://in.sagepub.com/en-in/sas/journal-of-visual-impairment-blindness/journal203555">https://in.sagepub.com/en-in/sas/journal-of-visual-impairment-blindness/journal203555</a>	<a href="https://journals.sagepub.com/doi/abs/10.1177/0145482X231195637">https://journals.sagepub.com/doi/abs/10.1177/0145482X231195637</a>

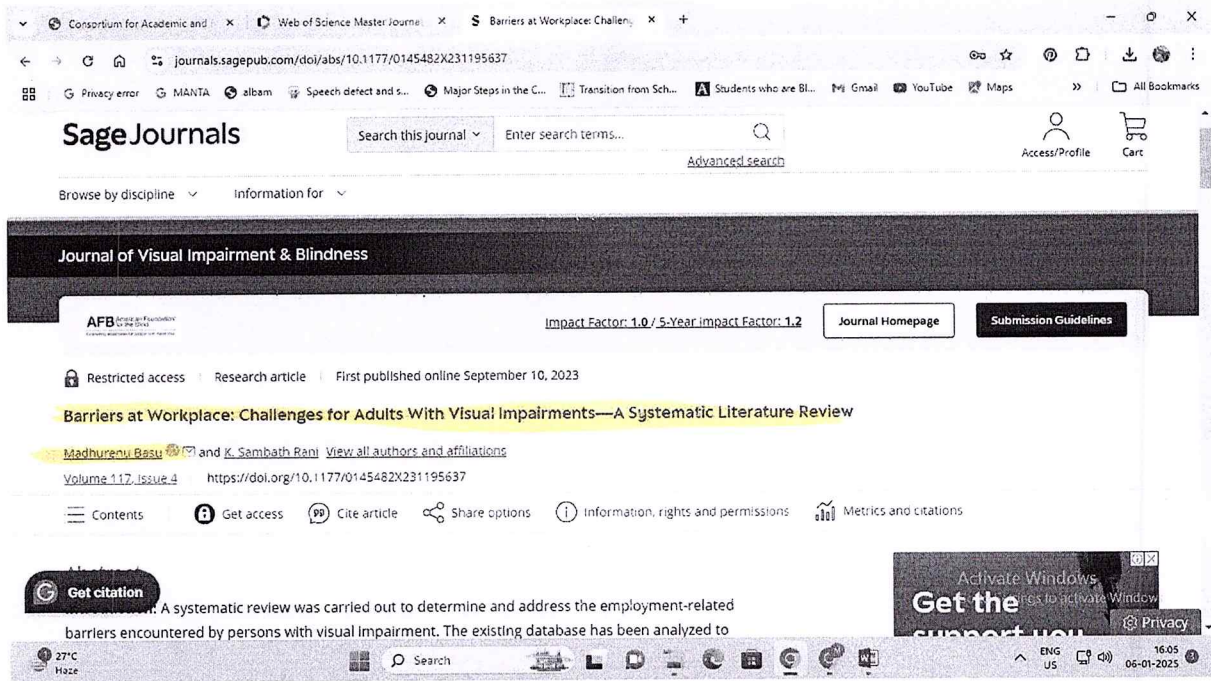
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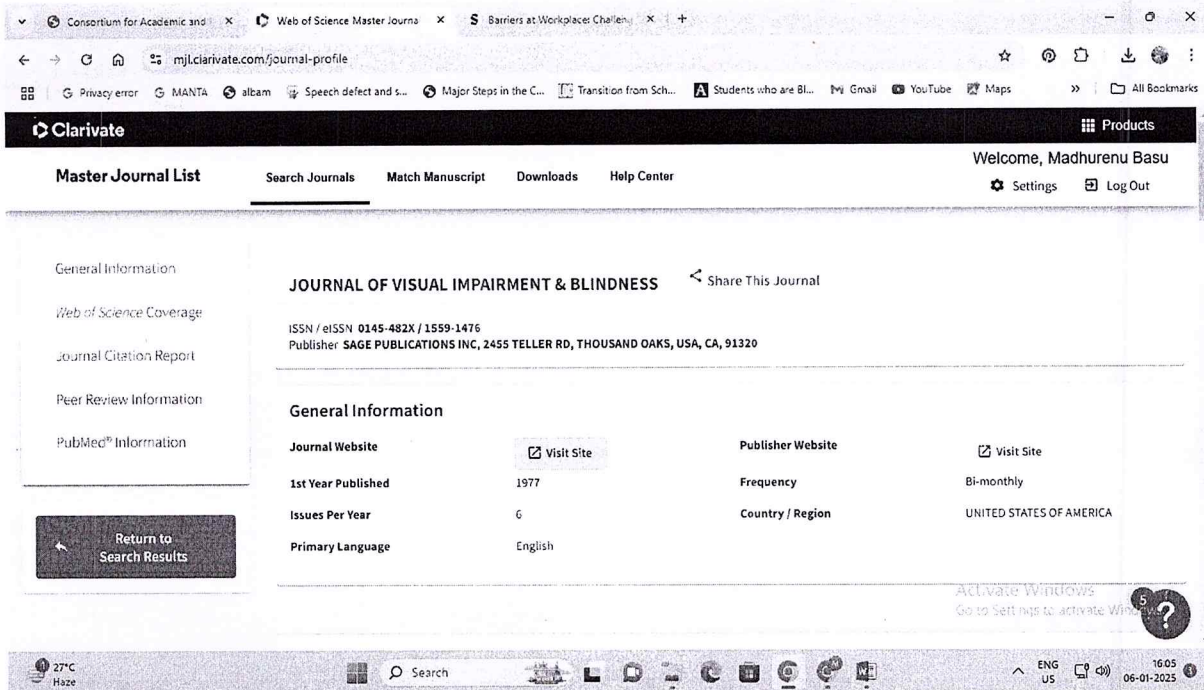
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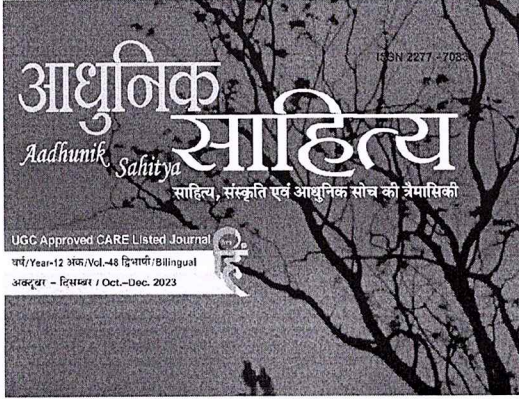


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1. Cover page of the Journal



2. Front page of the Journal

Research Article

**Exploring Social Intelligence and Modernization Attitude: A Comprehensive Review**

- Ms. Kalitoli K Chishi  
- Dr. Y. Chakradhara Singh

*According to the American Psychological Association, understanding difficult concepts, successfully adjusting to new circumstances, gaining knowledge from past mistakes, using multiple types of reasoning, and thinking through problems are all characteristics of intelligence.*

**Abstract:**  
Education awakens and develops physical, intellectual, moral, character and perception of seeing things and all other aspects which are required for a person to play his role as an enlightened member of the society. Education is important as it also leads one to acknowledge the social forces which are bound to influence the society. We as humans, live in numbers of different sized civilizations containing millions of people, living together in very close proximity to each other in a world where everything keeps changing so ultimately there is a need to be adapted in every aspect (social, cultural, economic, political, and etc.). In this ever-changing world Social Intelligence and Attitude towards Modernization goes hand in hand which has a vital function in shaping and developing one's life. In this fashion, they play a very crucial part in a student's educational development as it inculcates in them the ability to know others and the development and progress around them as well. As social intelligence helps an individual to interact and form relationships with others the students will eventually be aware of the changes going on around them and will immediately have a positive attitude towards the changes and modernization in general. The development of social intelligence is the foundation for fostering interpersonal harmony and the advancement of a nation's social, cultural, economic, political elements and can be facilitated through education. The researcher thus tried to critically study and review social intelligence and attitude towards modernization of undergraduate students with various numbers of studies.

572 Oct-Dec. 2023 | Aadhunik Sahitya | 572

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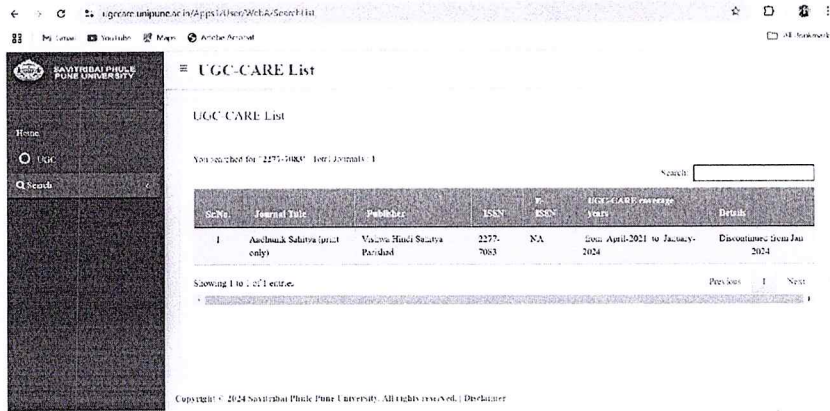
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• Srishty Yadav <sup>1</sup> , Dr. Sarabjit Kaur Sran <sup>2</sup> / Impact of Witnessing Domestic Abuse back in Childhood, now as young adult survivors: Depression, Anxiety and Stress proneness / 598

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4. Year of Publication: 2023

## 5. ISSN Number: 2277-7083



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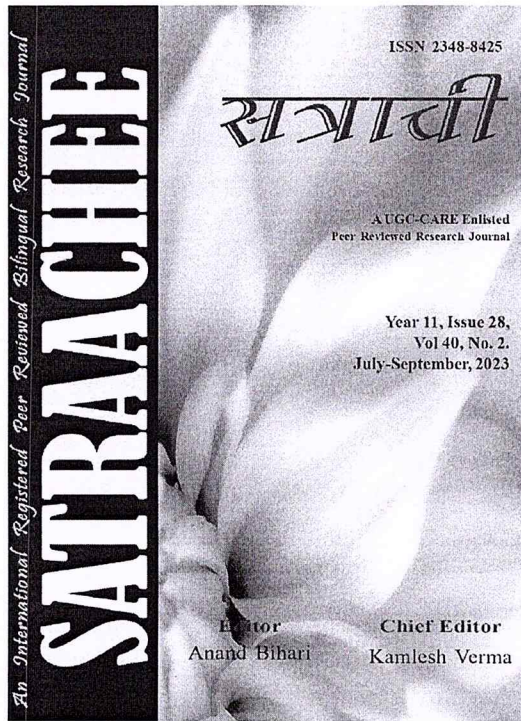
S.No.	Journal Title	Publisher	ISSN	P-ISSN	UGC CARE coverage Years	Details
1	Anandak Sashtra (part - only)	Vaidya Hindi Sashtra Parishad	2277-7083	NA	from April-2021 to January-2024	Discontinued from Jan 2024

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1. Cover page of the Journal



2. Front page of the Journal

A Study on Attitude towards Modernization of Undergraduate Students

- Kalitoli K Chishi<sup>1</sup>
- Dr. Y. Chakradhara Singh<sup>2</sup>

**Abstract**  
 Modernization entails a shift in values, considerable institutional changes, and advancement. It entails not only the replacement of outdated forms and pictures with fresh ones, but also includes the positive mindset and the attitude to adjust from one's issues being to the fast changes of socio-cultural and economic changes. The purpose of the research is to study the attitude of undergraduate students towards modernization. Survey method with purposive sampling is used for the investigation with a sample of 166 undergraduates enrolled in ICFAI University Tripura. The research is confined to studying how undergraduate students' attitude differs depending on their gender, stream, community and locality with relation to modernization. The Modernization Scale by Singh, Tripathi, and Lal (2012) is used for collecting the data. Mean, standard deviation, and 't' test is computed to analyse the data. The findings of the study shows that the undergraduate students' attitude towards modernization does not differ significantly based on their gender, stream, and locality, but it was found to have a significant difference in the attitude of tribal and nontribal undergraduate students towards modernization. Hence, the study concludes the need to possess a good attitude towards modernization, as it ultimately rests on its capacity to raise human potential and elevate quality of life.

**Key words:** Attitude, Modernization, Undergraduate Students

**Introduction**  
 Modernization was initially used to describe the contrast and change from a "traditional" agrarian civilization to a "modern" society built on trade and industry. The process of transforming a traditional civilization into one that is based on science and technology is known as modernization. The best way to define it is the process of moving old, ancient cultures and nations into the contemporary period in terms of economical, industrial, technical, cultural, political, and educational growth. The idea of modernization has grown more important in the fast-changing world of today, when sociological and technical improvements

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<sup>2</sup> Professor, Faculty of Education, ICFAI University, Tripura

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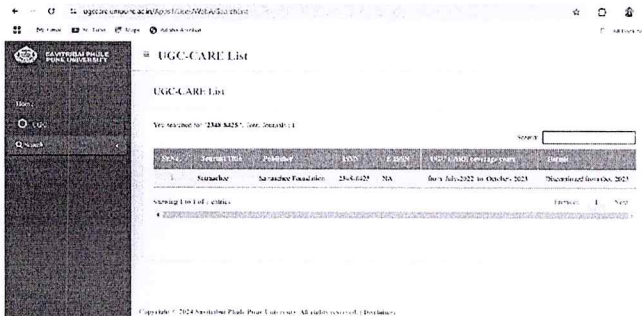


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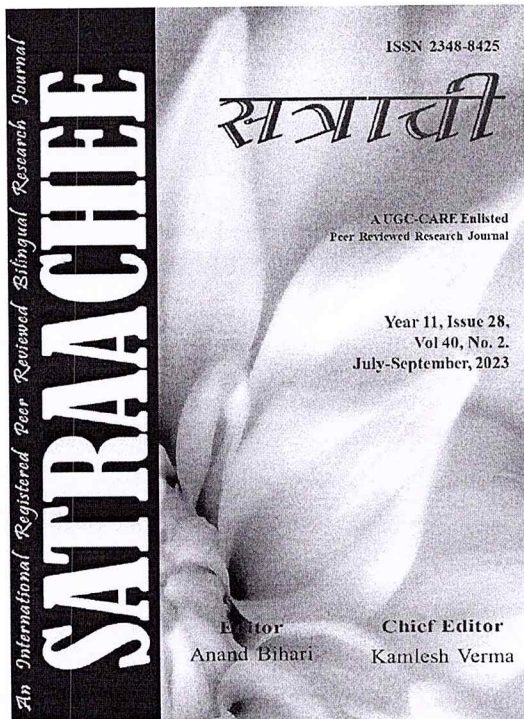


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### A Study of Connectivity between Blended Learning and Educational Adjustment Ability of Prospective Teachers

- Ms. C. Arundhathi Bai<sup>1</sup>
- Dr. Prem Shankar Srivastava<sup>2</sup>

#### Abstract

After the pandemic period, drastic changes were witnessed and experienced in every field, including the education sector. During such a situation, blended learning was accepted as a way of learning in a safe mode, where both the instructors and the learners got to get adjusted to the hybrid mode of learning. The present study aims to examine critically, the relationship between blended learning and the educational adjustment ability of prospective teachers, and to see if there exists any gender and academic stream differences in the Educational Adjustment Ability and Blended Learning respectively. For the present study, the investigator employed a descriptive survey method with a sample of 102 prospective trainees, receiving training under departments namely: the Faculty of Education, Faculty of Special Education, and Faculty of Physical Education & Yoga of ICFAI University, Tripura. The Adjustment Ability Scale, constructed and standardized by Bai and Srivastava and Blended Learning Attitude Scale by Devaki and Devam (2018) were used to collect the data. Further, the data was analyzed by using a t-test and Pearson's coefficient 'r'. The findings examined a moderate positive correlation between blended learning and educational adjustment ability of prospective teachers, and are significant at 0.01 level. The study also found a significant difference in the educational adjustment ability of prospective teachers with respect to their gender at 0.01 level of significance, and academic stream at 0.05 level of significance; but no significant difference was found with respect to either gender or academic stream, towards their blended learning. Thus the study concludes that there is a positive relationship between the blended learning and educational adjustment ability.

**Keywords:** Adjustment Ability, Educational Adjustment Ability, Blended Learning, Prospective Teachers.

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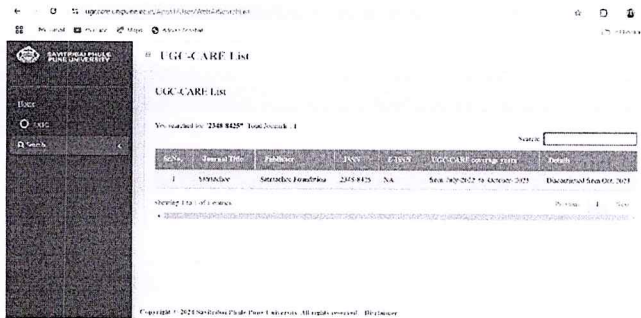
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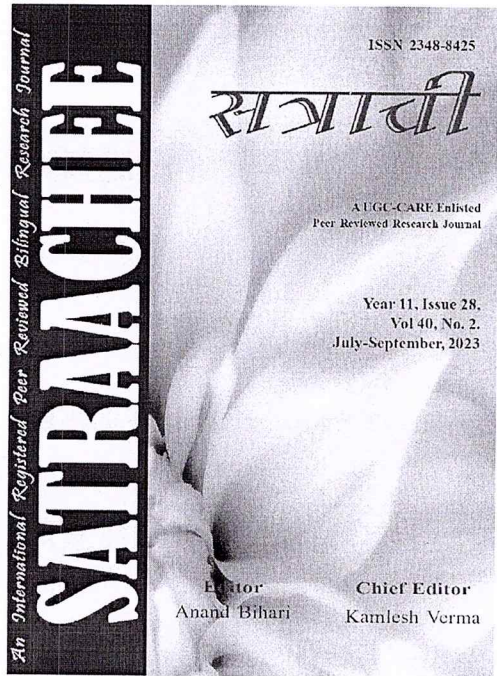


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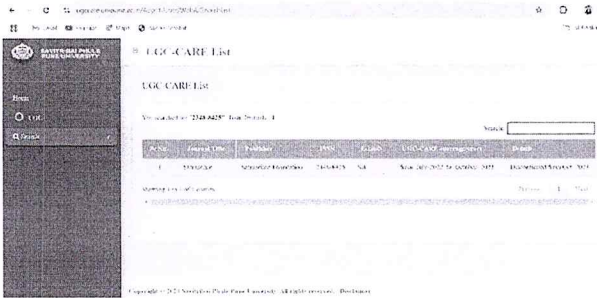
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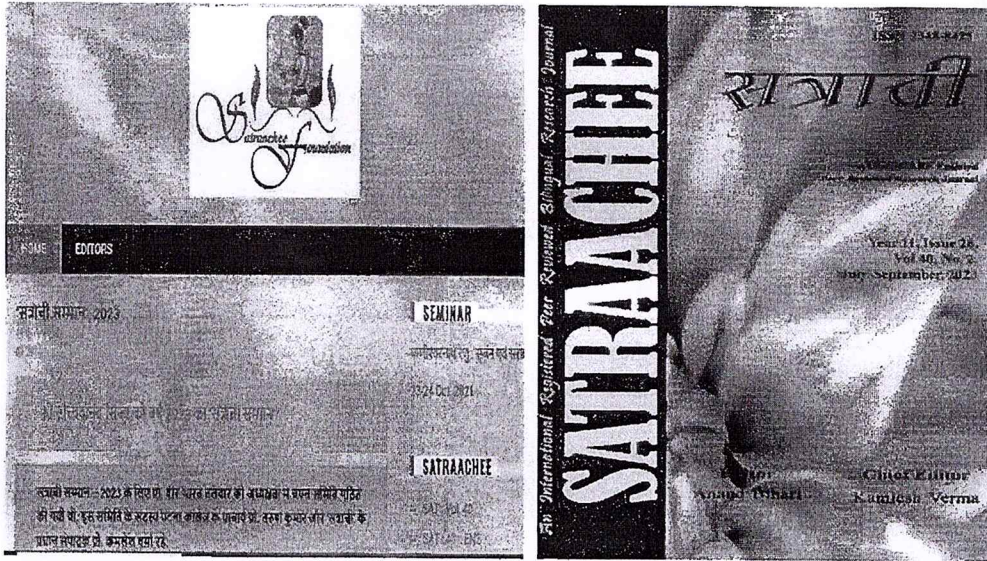


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## Techno-pedagogical Competency and Metacognitive Skills of Prospective Teachers: An Empirical Study

Mr. Priyan. K. M<sup>1</sup>, Dr. Yendluri Chakradhara Singh<sup>2</sup>

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### Abstract

This study investigated the association between Techno-pedagogic competency and Metacognitive skills among prospective teachers. The study employed a descriptive survey design and administered the Meta-Cognitive Skills Scale and the Teacher's Techno Pedagogical Competence Scale on a sample of 316 prospective teachers selected from ICFAI University and IASE in Tripura. An independent samples  $\chi^2$  test for the association has been utilized to test the hypothesis and to identify the potential association between Techno-Pedagogical Competency and Metacognitive Skills among prospective teachers. The chi-square statistic ( $\chi^2$ ) yielded a value of 177, accompanied by a degree of freedom of 16. Furthermore, the p-value was less than .001, a threshold commonly indicating statistical significance. The results of this study led to the rejection of the null hypothesis, which posited that there is no significant association between Techno-Pedagogical Competency and Metacognitive Skills of Prospective Teachers. However, the alternative hypothesis was accepted, posing a statistically significant association between Techno-Pedagogical Competency and Metacognitive Skills among prospective teachers. This finding suggests a notable association between Techno-Pedagogical Competency and Metacognitive Skills among prospective teachers. The results of this study highlight the significance of incorporating techno-pedagogical training into teacher education programs to augment metacognitive abilities among aspiring educators.

**Keywords:** Techno-pedagogic competency, Metacognitive Skills and Prospective Teachers

### 1. Introduction

In today's hyper-digital world, the relevance of technology in educational practices has grown exponentially. The term "techno-pedagogic competency" refers to the ability of a teacher to integrate appropriate technological tools into the learning and instruction process while maintaining adherence to established pedagogical standards. The approach comprises

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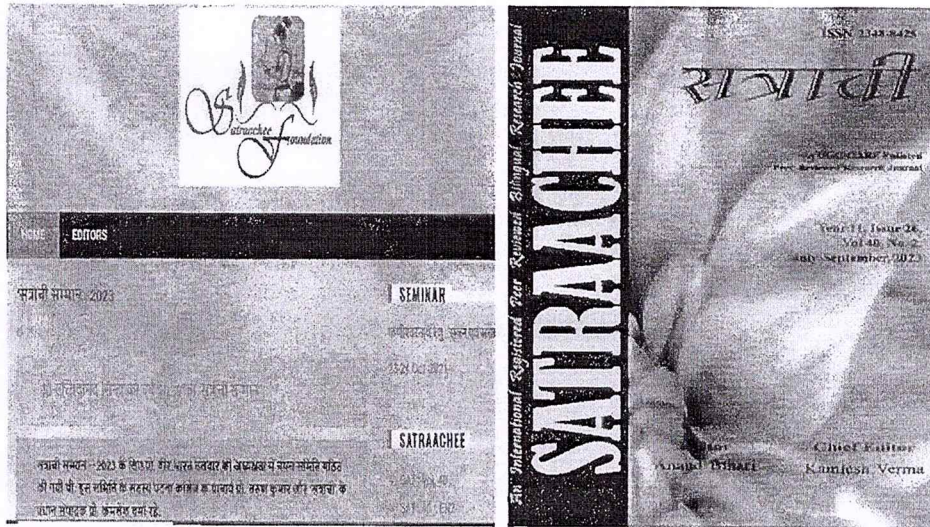
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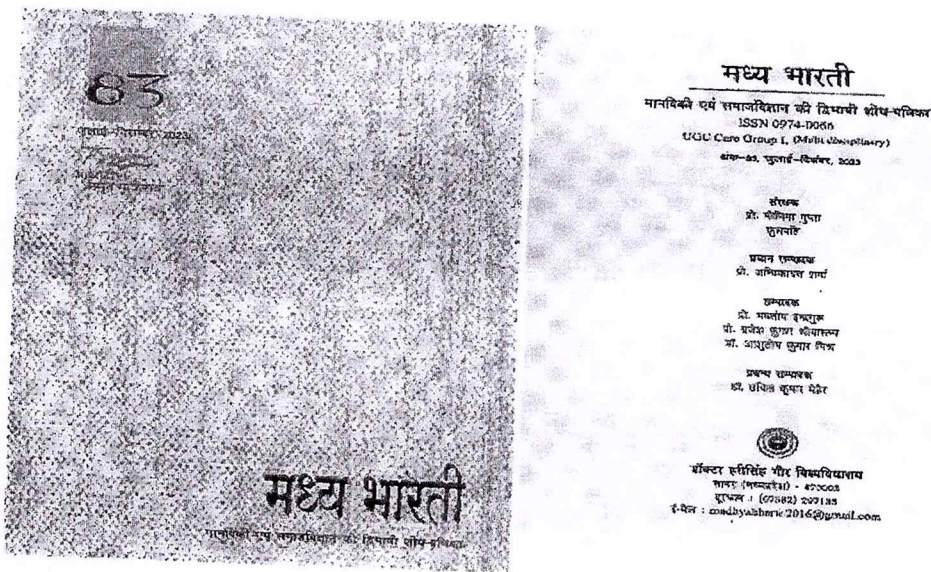
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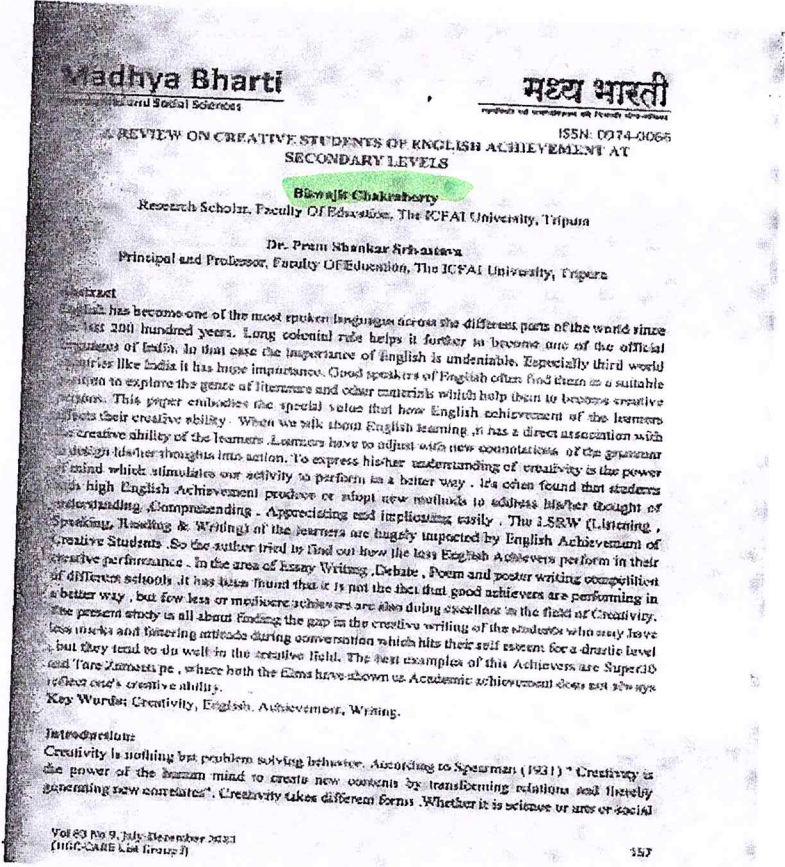


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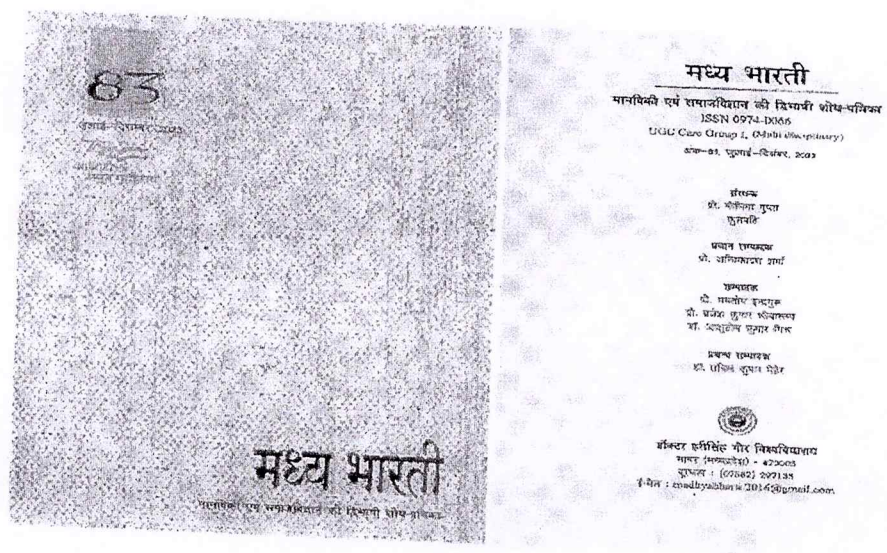
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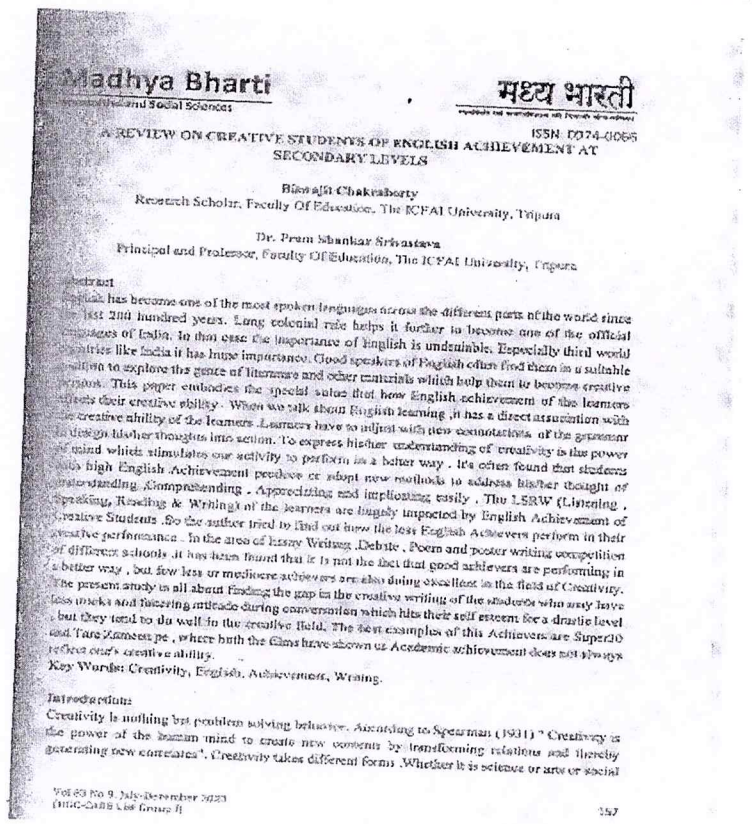


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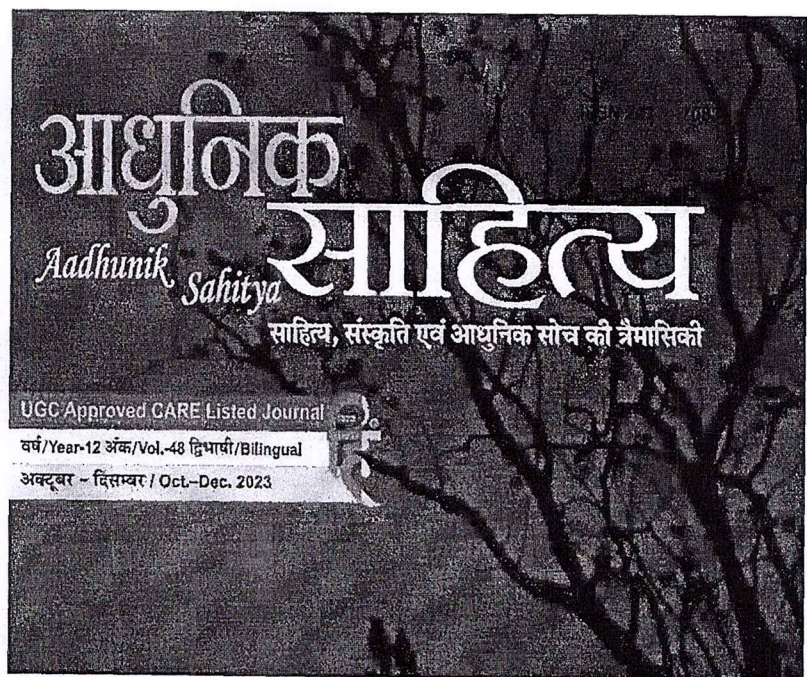
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**Research Article**

**Transformative Teaching: Unveiling the Power of TPACK in Literature Instruction**

— Mr. Uttam Mitra<sup>1</sup>  
— Dr. Y. Chalradhara Singh<sup>2</sup>

*TPACK serves as a guiding force, steering educators away from a technocentric approach and towards a harmonious blend of technology, pedagogy, and content. The framework challenges the misconception that technology alone is a panacea for educational challenges, emphasizing the nuanced relationships among these elements.*

**Abstract:**  
Grounded in the recognition of the intricate relationships among technology, pedagogy, and content, TPACK serves as a guiding force for educators to move beyond a technocentric approach. The integration of I:1 computing in English Language Arts education aligns with TPACK, challenging teachers to adapt to new literacies and modify both pedagogy and technology use. The study emphasizes TPACK's role in fostering collaborative learning, enhancing teacher practices, and influencing positive student outcomes. In literature instruction, TPACK prompts educators to strategically integrate digital tools, fostering a well-founded and contemporary learning experience. The continuous need for professional development is underscored, acknowledging the dynamic nature of technology in literature education. As a transformative force, TPACK guides educators in navigating the evolving landscape of literature education, ensuring students are equipped with skills essential for the digital age.

**Keywords:** TPACK, Literature Instruction

**Introduction**  
"Technological Pedagogical Content Knowledge (TPCK) as a way of representing what teachers need to know about technology, and argue for the role of authentic design-based activities in the development of this knowledge". (Kochler & Mishra)  
The Technological Pedagogical Content

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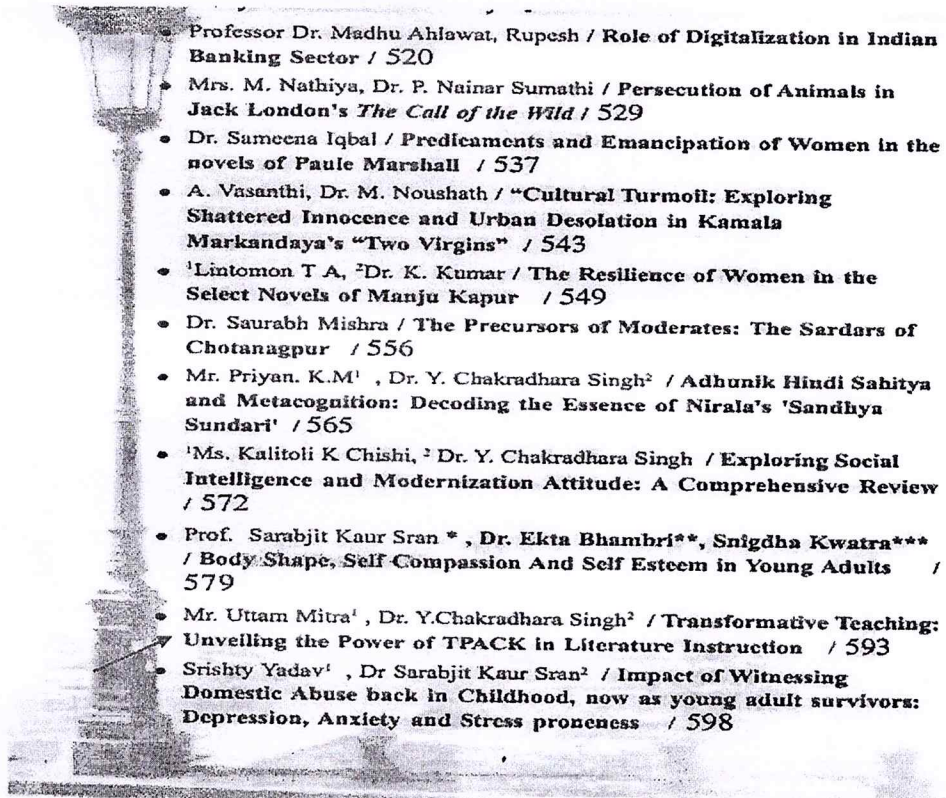
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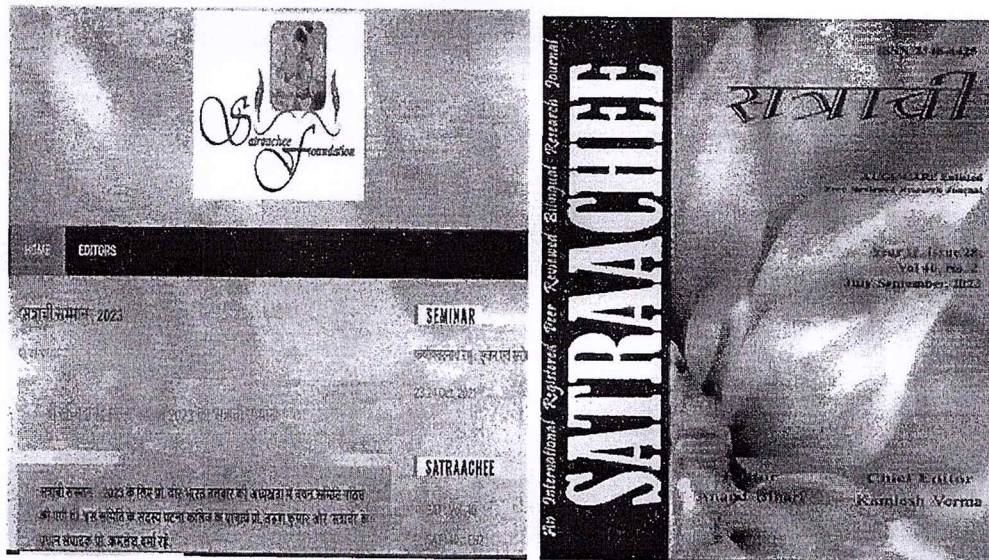
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### A Study of Occupational Aspiration Level of Undergraduate Students in Reference to Locality and Gender

- Mr. Bheem Pad Malto<sup>1</sup>
- Dr. A. Ranganath<sup>2</sup>

**Abstract**

The development of an individual depends on nature and nurture, home environment has a major role in the development of an individual. The present study was aimed to explore the occupational aspiration level of undergraduate students with reference to home locality and gender. The study was conducted between male and female undergraduate students belonging to different academic streams. A quantitative method was applied followed by a descriptive survey design. The data was collected using the occupational aspiration scale, which were standardised and validated by Prof. N.P.S. Chandel, Dr. Vibha Laxmi, and Mr. Ranjit Kumar Singh. The response was collected from 80 undergraduate students. The researcher used the Mean, Median, Standard Deviation, and t test for analysis of data. The study reveals that undergraduate students have average Level of occupational aspirations. There is no significant difference between rural and urban undergraduate students on their occupational aspirations. Location has no bearing on undergraduate students' occupational aspirations. Both students are equally passionate about their occupation. There is no significant difference between undergraduate boys and girls on their occupational aspiration level.

**Keywords:** Occupational Aspiration, Undergraduate Students, Locality, Education

**Introduction**

In present era rapid change in the life style and need of an individual in the world. Occupation is the way in which an individual spends his time through the life. The professional preparation and educational goals held during adolescence influence decision-making processes in ways that have long-term effects on the course of a young person's life. Students' aspiration are the combination of educational goals and vocational endeavors. It is own sense which relate to what they feel important elements to success in life style of their choosing. Education has become one of the most crucial aspects of life in the society in which we

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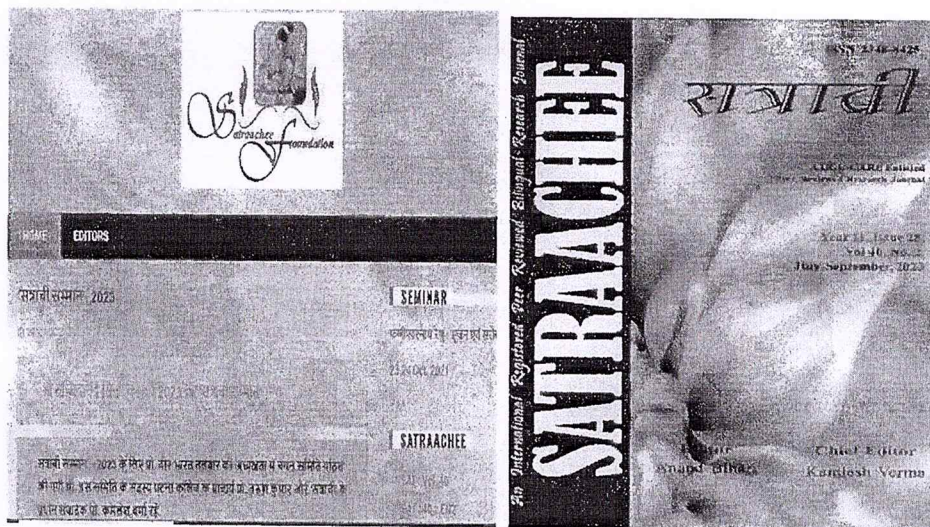
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- Mr. Bheem Pad Mahto<sup>1</sup>
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**Abstract**

The development of an individual depends on nature and nurture, home environment has a major role in the development of an individual. The present study was aimed to explore the occupational aspiration level of undergraduate students with reference to home locality and gender. The study was conducted between male and female undergraduate students belonging to different academic streams. A quantitative method was applied followed by a descriptive survey design. The data was collected using the occupational aspiration scale, which were standardised and validated by Prof. N.P.S. Chandel, Dr. Vibha Laxmi, and Mr. Ranjit Kumar Singh. The response was collected from 80 undergraduate students. The researcher used the Mean, Median, Standard Deviation, and t test for analysis of data. The study reveals that undergraduate students have average Level of occupational aspirations. There is no significant difference between rural and urban undergraduate students on their occupational aspirations. Location has no bearing on undergraduate students' occupational aspirations. Both students are equally passionate about their occupation. There is no significant difference between undergraduate boys and girls on their occupational aspiration level.

**Keywords:** Occupational Aspiration, Undergraduate Students, Locality, Education

**Introduction**

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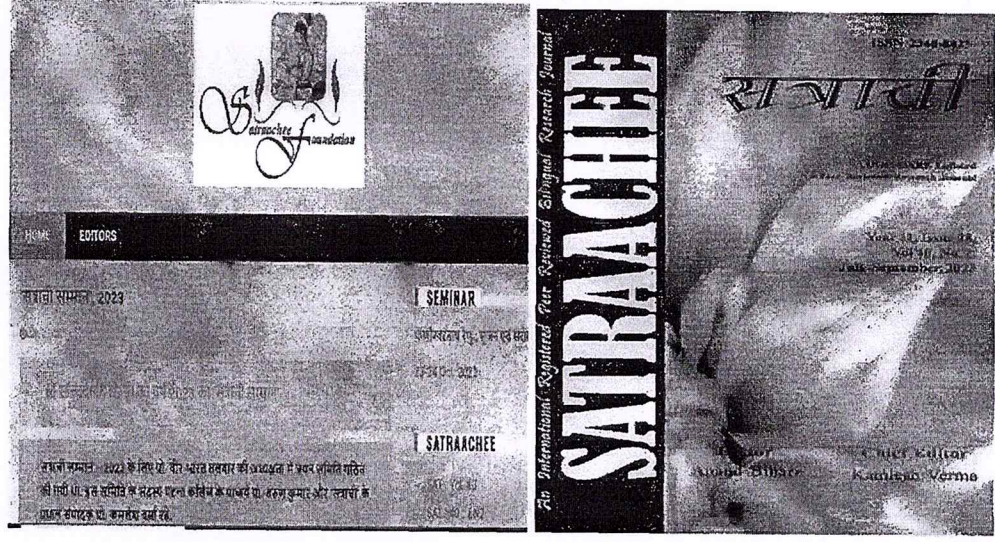
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### Cultural Intelligence of School Going Achievers

- Biswajit Chakraborty<sup>1</sup>
- Dr. Prem Shankar Srivastava<sup>2</sup>

**Abstract:**

The current study focuses on the culturally distinct issues that English school-going achievers with high and low levels of academic accomplishment face. The entire sample size is 504, with 266 high level and 238 low level English performers. The tool established by Caterina Gozzoli<sup>1</sup>, Diletta Gazzaroli<sup>2</sup> Cultural Intelligent Scale (2018) was employed to collect the data. The objective of the research is to investigate the differences between high and low levels of English achievement as well as the four cultural intelligences—meta-cognitive intelligence, cognitive intelligence, motivational intelligence, and behavioral intelligence. The results of the research using the test show that there are considerable differences with regard to cultural intelligence. However, the present study can bring the awareness in solving the cultural adjustment problems among the school going children, parents and the guardians.

**Keywords:** Cultural Intelligence, English achievers

**Introduction**

The sense of elitism has definitely been the part of sophisticate society. In this the language English has given a birth of different society and that can relate to English Culture. The most number of upper and middle class of India feel proud to send their wards to English Medium Schools. The so called elite family members try to put their children to the English Culture. This English Culture is not the new term in India. We have seen that since the colonial rule of British in India and this blood has given new birth. The sons of Rajas and big Plantaters often send their children to English Medium School and the same ambience they used to maintain in the Mahals or houses. They were taught in English, dressed like English and moreover act in English. This culture of speaking English is a continuous legacy in India. They imbibed their nourishment through the nanny of British godmother. They had been treated with British culture, so that they can taste the flavor of English culture and that had been a continuing factor in learning English. Are we not fostering a culture of serious study

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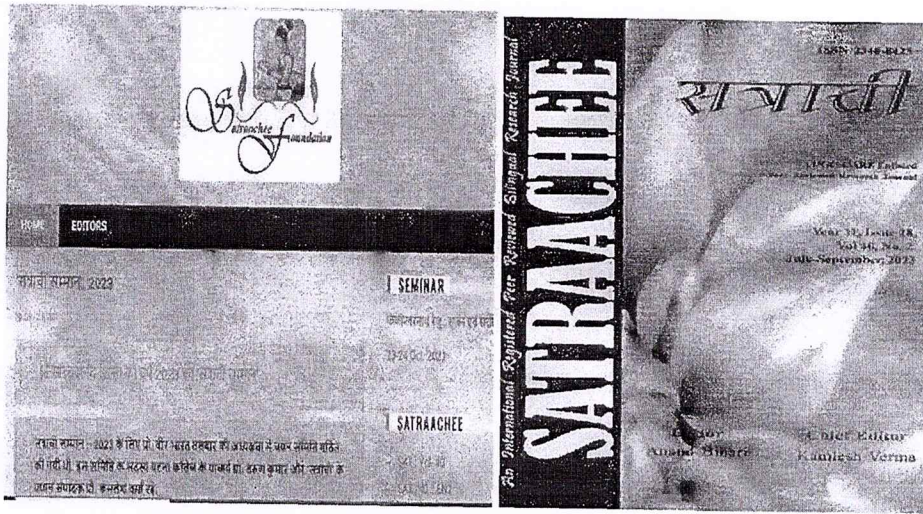
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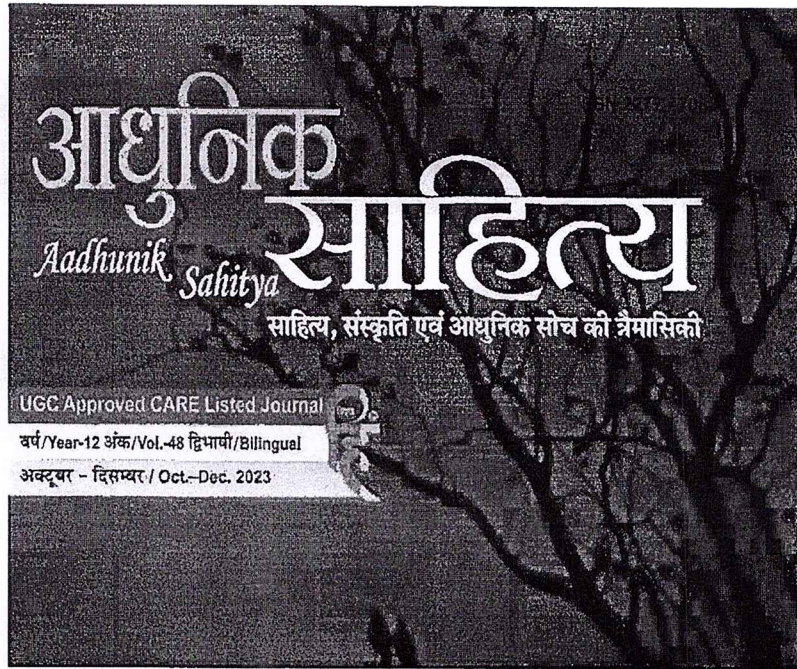
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Research Article

**Adhunik  
Hindi Sahitya  
and  
Metacognition:  
Decoding the  
Essence of  
Nirala's  
'Sandhya  
Sundari'**

— Mr. Priyan. K.M.  
— Dr. Y. Chakradhara  
Singh<sup>2</sup>

*Suryakant Tripathi  
'Nirala', a luminary in  
modern Hindi literature,  
gifted the world with  
'Sandhya Sundari,' a  
poem embodying the  
spirit of Chhayavad, akin  
to Neo-romanticism.*

**Abstract:**

In the landscape of Hindi literature, Suryakant Tripathi 'Nirala's' 'Sandhya Sundari' stands out as a masterpiece that not only exemplifies the romantic essence of the Chhayavad era but also marks a significant foray into the realms of Adhunik Hindi Sahitya, or Modern Hindi Literature. This paper delves into the rich tapestry of themes, styles, and introspective depths presented in 'Sandhya Sundari,' highlighting its significance in the evolution of Hindi literary tradition. At its heart, 'Sandhya Sundari' is a poetic embodiment of the evening, depicted with such vivid imagery and emotion that it goes beyond mere description. Nirala's unique approach to personifying the evening as a mystical, fairylike entity captures the romanticism inherent in Chhayavad poetry. However, there is more to it than just romance. The poem also reflects the shift towards modernity, evident in Nirala's departure from traditional motifs and embrace of innovative styles like free verse and repetitive phrases, characteristic of modern Hindi literature.

However, Sandhya Sundari is about more than beautiful imagery or stylistic innovation. It delves deeper, engaging with Metacognition – thinking about one's thought processes. The poem invites readers to a contemplative space, where the serene evening becomes a mirror for self-reflection and emotional introspection. This exploration of inner thoughts and feelings aligns the poem with modern Hindi literature's introspective and existential themes.

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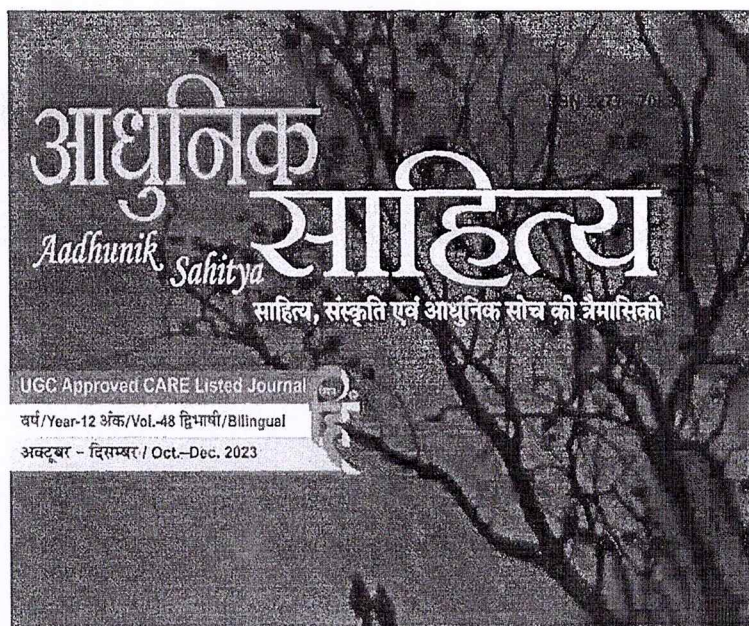
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Research Article

**Adhunik  
Hindi Sahitya  
and  
Metacognition:  
Decoding the  
Essence of  
Nirala's  
'Sandhya  
Sundari'**

— Mr. Priyan, K.M.  
— Dr. Y. Chakradhara  
Singh\*

*Suryakant Tripathi  
'Nirala', a luminary in  
modern Hindi literature,  
gifted the world with  
'Sandhya Sundari,' a  
poem embodying the  
spirit of Chhayavad, akin  
to Neo-romanticism.*

**Abstract:**

In the landscape of Hindi literature, Suryakant Tripathi 'Nirala's' 'Sandhya Sundari' stands out as a masterpiece that not only exemplifies the romantic essence of the Chhayavad era but also marks a significant foray into the realms of Adhunik Hindi Sahitya, or Modern Hindi Literature. This paper delves into the rich tapestry of themes, styles, and introspective depths presented in 'Sandhya Sundari,' highlighting its significance in the evolution of Hindi literary tradition. At its heart, 'Sandhya Sundari' is a poetic embodiment of the evening, depicted with such vivid imagery and emotion that it goes beyond mere description. Nirala's unique approach to personifying the evening as a mystical, fairylike entity captures the romanticism inherent in Chhayavad poetry. However, there is more to it than just romance. The poem also reflects the shift towards modernity, evident in Nirala's departure from traditional motifs and embrace of innovative styles like free verse and repetitive phrases, characteristic of modern Hindi literature.

However, Sandhya Sundari is about more than beautiful imagery or stylistic innovation. It delves deeper, engaging with Metacognition – thinking about one's thought processes. The poem invites readers to a contemplative space, where the serene evening becomes a mirror for self-reflection and emotional introspection. This exploration of inner thoughts and feelings aligns the poem with modern Hindi literature's introspective and existential themes.

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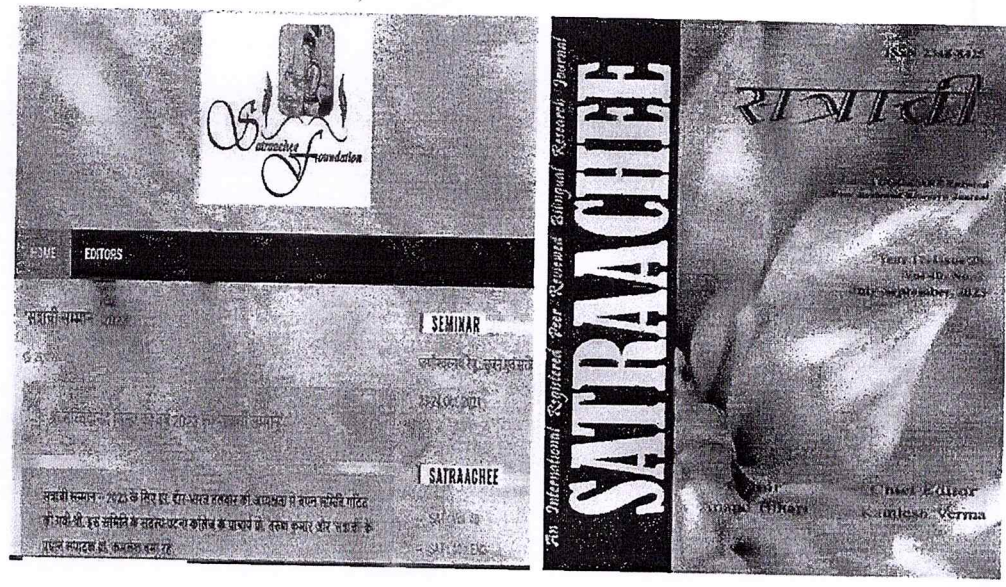
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### Scientific Attitude of Secondary School Students in India: A Systematic Review

**Dr. Yendluri Chakradhara Singh**

Professor, Faculty of Education, ICAFI University, Tripura

**Ms. C. Arundhathi Bai**

Assistant Professor, Faculty of Education, ICAFI University, Tripura

#### Abstract

In science education scientific attitude is an important outcome of teaching learning process. Scientific Attitude can be cultivated through science education. The person with scientific attitude can fit in well with different kinds of people in society. Scientific attitude helps individual to develop a better vision for the meaningful life and teaches them to do all works systematically which leads to the development of the nation. The purpose of this study is to briefly record the findings of "Scientific Attitude of Secondary School Students", conducted in different states of India during the last ten years. It focuses on the systematic review of scientific attitude of secondary school students in India. Through a comprehensive analysis of existing literature, this study contributes to a preferable perception of the various factors influencing scientific attitude among secondary school students.

**Keywords:** Attitude, Scientific Attitude, Secondary School Students.

#### Introduction

Science has brought radical changes in human life. Impact of science appears everywhere and every aspect of our daily life. Presently we are living in the ever updating modern science era. Science has changed the modern world in to the scientific world which is being updated every moment. All the modern gadgets, which made our work casier, are based on scientific principles. Study of science education develops the scientific attitude and critical thinking among students. Scientific attitude is one of the objectives involved in science teaching learning process of the secondary school students. The Education Commission (Kothari Commission) has recommended that science would be compulsorily taught to all students with in the first ten years of schooling as a part of their education. NPE 1986 emphasized on teaching science, and according to NCF-2005, good science education is one that is true to the learner, true to life and true to the environment. National Education Policy 2020 focused that students are to be given flexibility and choice of subjects to study, particularly in secondary

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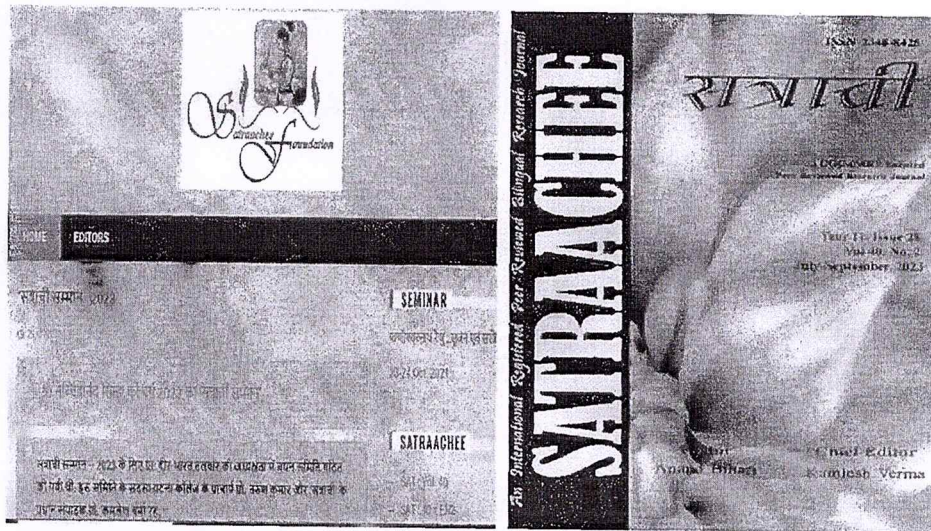
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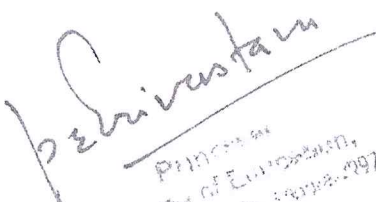
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### Effect of Value-Oriented Education and Intelligences on Adjustment Ability in India: A Critical Review

\*Ms. C. Arundhathi Bai, \*\*Dr. Prem Shankar Srivastava

**Abstract**

A human being is one of the most complex living organisms whose behavior is most unpredictable, who suffers from mood swings, creating anxiety and tension. That is the reason why there must be some discipline in life, which is possible only with education, inculcating cognitive abilities, social conduct, character, self respect, and so on, where every being gets trained to get adjusted with the society he survives. Education not only gives a platform to succeed, but also provides the ability to use the mental energy to handle the situations and move on, leading a happy and well-contented life. The greatest gift education gives is the knowledge to handle his/her environment, unconditional love and a set of values. These values include the simple difference between right and wrong, a belief in God, the importance of hard work and self respect. Value-oriented education is one such tool which not only provides a profession but also a purpose in life, helping in developing the character and morality in the children; inculcating ideas about national integration; enabling the children to get adjusted to their environment, making them as an ideal citizen. The teachers play an important role in inculcating these values in the children, affecting their behavior, moulding them as an ideal citizen of the nation. And the students get influenced by the teachers in the ways of inculcating values and getting adjusted with the environment. Hence the teachers and student teachers must be well adapted with values, and the well adjusted teacher possesses the true dedication, which can influence the students. This paper aims to survey the studies and examine the effect of value-oriented education and intelligences on adjustment ability of teachers/teacher trainees and students.

**Introduction**

Living in a society, every human being must be able to adapt the ways to compromise and build a harmonious relationship with the society and environment, to lead a healthy and successful life. This compromise, which an individual maintains, satisfying the needs of self and the demands of the society in which he or she lives, is termed as adjustment by many psychologists. Though satisfied or not, human beings run behind different needs, throughout one's life. At the same time, due to rapid and unexpected changes in society and the environment, personality and the behavior of human being is being affected. Adjustment is an important factor in the life of human, which is a continuous process and ends with life. It is becoming a challenging issue, where the individual needs to enhance one's ability, to get adjusted in order to meet and face these challenges in which one lives. Human beings behavior, which is unpredictable, is helpless due to mood swings leading to anxiety and stress, especially during the initial stage and is not aware of the

need of adjusting. Gradually he/she develops the sense of responsibility to solve the problems and get adjusted successfully, with help of formal and informal agency. And later education helps the individual to develop their moral consciousness and help them to develop ideal ways of thinking and behave well in any society, adjusting with different set of rules. Education not only lays the path of success, it also provides such knowledge, where every individual gets trained to get adjusted with the society he lives in. Education is a continuous learning experience, learning from people, learning from success and failures, learning from leaders and followers and then growing up to be the person we are meant to be. Such education moulds the children, training them to maintain a harmonious relationship, face the challenges, and lead a happy life by adjusting self with any kind of environment. Educational institutions should bind to nurture values, ethics, moralities and decency in the student career for their holistic development. Such value-oriented education helps not only in structuring one's life but also gain the

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 <p><b>भारतीय शिक्षा शोध पत्रिका</b> BHARATIYA SHIKSHA SHODH PATRIKA Volume 42, No. 1 (pt. 1), January-June 2023 Vol. 42, No. 1 (pt. 1), January-June 2023</p> <p>भारतीय शिक्षा शोध संस्थान सहयोगी भूमा, मिर्जापुर, सहयोग-226020 (सहयोगी) Bharatiya Shiksha Shodh Sansthan Sahayogee Bhuma, Mirja Nagar, Lucknow-226020 (Uttar Pradesh) Ph. No. 0522-2787816; Email: bshshodh@rediffmail.com Website: www.bshshodh.org</p>	<p>भारतीय शिक्षा शोध पत्रिका Volume-42 Part-1 January-June 2023 P. 000000</p> <p>उप-संपादक: श्री. प्रेम शंकर श्रीवास्तव सह-संपादक: श्री. अरुंधती बाल</p> <p>संपादक: श्री. प्रेम शंकर श्रीवास्तव</p> <p>सहायक संपादक: 1. श्री. प्रेम शंकर श्रीवास्तव 2. श्री. अरुंधती बाल</p> <p>संपादक: श्री. प्रेम शंकर श्रीवास्तव</p> <p>सहायक संपादक: 1. श्री. प्रेम शंकर श्रीवास्तव 2. श्री. अरुंधती बाल</p>	<p><b>BHARATIYA SHIKSHA SHODH PATRIKA</b> Vol.-42 Part-1 January-June 2023 P. 000000</p> <p>A Bi-Annual Educational Research Journal Published by Bharatiya Shiksha Shodh Sansthan</p> <p><b>EDITORIAL BOARD</b></p> <p><b>PRESIDENT</b> Dr. Krishna Mohan Tripathi</p> <p><b>SECRETARY</b> Prof. Sunil Kumar Pandey</p> <p><b>RESEARCH DIRECTOR</b> Dr. Mohan Kumar</p> <p><b>CONSULTANT</b> Dr. Vinay Kumar</p> <p><b>CHIEF EDITOR</b> Prof. Sunil Kumar Pandey</p> <p><b>EDITORS</b> Prof. N.R. Dasgupta Dr. L.P. Sharma Prof. Anil Kumar Prof. Nishu Singh Prof. Manish Kumar</p> <p><b>MANAGING EDITOR</b> Dr. Shilpa Subashini Tripathi</p> <p>Kindly send research articles according to instructions given under the heading Information for Contributors. This will help in quick decision for the publication.</p> <p>Views, comments etc. expressed by contributors are their own. They do not express the policies of Vidya Journal or Research Institute of Bharatiya Shiksha Shodh Sansthan. If the copyright rules are violated by any published matter, then the contributor himself shall be responsible for the same. Publisher or Editorial Board will not be responsible for this in any way.</p> <p>The copyright of the journal is of Research Institute of Bharatiya Shiksha Shodh Sansthan, Sahayogee Bhuma, Mirja Nagar, Lucknow, India. No part of this publication can be used or stored in any way without the written permission of the Chairman of the Research Institute.</p>
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2. Front page of the research paper:

### Effect of Value-Oriented Education and Intelligences on Adjustment Ability in India: A Critical Review

\*Ms. C. Arundhati Bai, \*\*Dr. Prem Shankar Srivastava

**Abstract**

A human being is one of the most complex living organisms whose behavior is most unpredictable, who suffers from mood swings, creating anxiety and tension. But is the reason why there must be some discipline in life, which is possible only with education, inculcating cognitive abilities, social conduct, character, self respect, and so on, where every being gets trained to get adjusted with the society he survives. Education not only gives a platform to succeed, but also provides the ability to use the mental energy to handle the situations and move on, leading a happy and well-contented life. The greatest gift education gives is the knowledge to handle his/her environment, unconditional love and a set of values. These values include the simple difference between right and wrong, a belief in God, the importance of hard work and self respect. Value-oriented education is one such tool which not only provides a profession, but also a purpose in life, helping in developing the character and morality in the children, inculcating ideas about national integration; enabling the children to get adjusted to their environment, making them as an ideal citizen. The teachers play an important role in inculcating these values in the children, affecting their behavior, moulding them as an ideal citizen of the nation. And the students get influenced by the teachers in the ways of inculcating values and getting adjusted with the environment. Hence the teachers and student teachers must be well adapted with values, and the well adjusted teacher possesses the true dedication, which can influence the students. This paper aims to survey the studies and examine the effect of value-oriented education and intelligences on adjustment ability of teachers/teacher trainees and students.

**Introduction**

Living in a society, every human being must be able to adapt the ways to compromise and build a harmonious relationship with the society and environment, to lead a healthy and successful life. This compromise, which an individual maintains, satisfying the needs of self and the demands of the society in which he or she lives, is termed as adjustment by many psychologists. Though satisfied or not, human beings are behind different needs, throughout one's life. At the same time, due to rapid and unexpected changes in society and the environment, personality and the behavior of human being is being affected. Adjustment is an important factor in the life of human, which is a continuous process and ends with life. It is becoming a challenging issue, where the individual needs to enhance one's ability, to get adjusted in order to interact and face these challenges in which one lives. Human beings behavior, which is unpredictable, is helpless due to mood swings leading to anxiety and stress, especially during the initial stage and is not aware of the

need of adjusting. Gradually he/she develops the sense of responsibility to solve the problems and get adjusted successfully, with help of formal and informal agency. And later education helps the individual to develop their moral consciousness and help them to develop ideal ways of thinking and behave well in any society, adjusting with different set of rules. Education not only lays the path of success, it also provides such knowledge, where every individual gets trained to get adjusted with the society he lives in. Education is a continuous learning experience, learning from people, learning from success and failures, learning from leaders and followers and then growing up to be the person we are meant to be. Such education moulds the children, training them to maintain a harmonious relationship, face the challenges, and lead a happy life by adjusting self with any kind of environment. Educational institutions should bind to nurture values, ethics, moralities and experiences in the student career for their holistic development. Such value-oriented education helps not only in structuring one's life but also gain the

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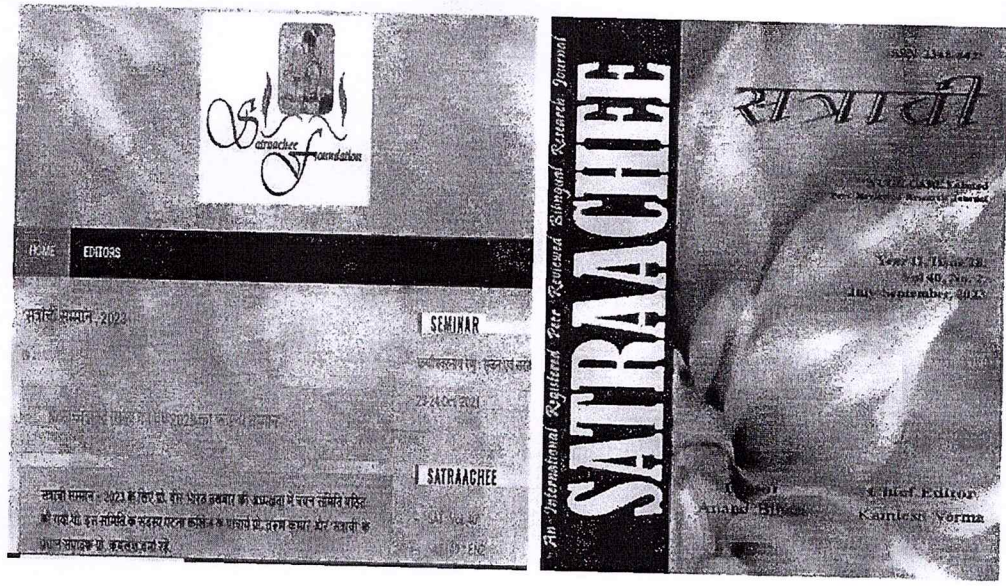
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1. Cover page of the Journal: <https://satraachee.org.in/>



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### Teacher Effectiveness through Cultural Intelligence: A Study based on Spiritual Intelligence

- Shri Dibya Jyoti Sinha<sup>1</sup>
- Prof. (Dr.) Prem Shankar Srivastava<sup>2</sup>

**Abstract :**  
 The current study deals with the importance of living a life of 'Spiritual Intelligence' which in other words can be called 'Seeing Life the Way It Is'. Natural and non-constipated advent of Cultural Intelligence can happen through 'Spiritual Intelligence'. The ways through which 'cultural intelligence' can be achieved, that in turn, leads to the attainment of 'teacher effectiveness' is discussed analytically. This study expresses the possibilities and advantages of seeing life exactly the way it is without having to exaggerate things in any possible way and thus, truth or reality is prioritised rather than manipulations, persuasions and influences which could lead to arbitrariness or 'falsified reality'. Most people today prefer living with 'false reality' than 'naked truth' which could be taken as sickness. The medicine for such self and society created sickness is 'Spiritual Intelligence'. It happens due to the missing link of mass with Spiritual Intelligence or synchronicity with the rest of the existence. This paper also highlights how 'seeing life the way it is' can help eliminate unwanted emotions and can help develop pleasant emotions which is a sure indicator for cultural intelligence and teacher effectiveness.

**Keywords:** Spiritual Intelligence, Teacher Effectiveness, Cultural Intelligence, Art of Living, Self-Confidence.

**Introduction**

**Spiritual Intelligence**  
 Humans are the lone creature on this planet known as 'Human Being'. No other living being on the planet is known to have the word 'being' next to the species' name. Humans are human beings because of the capability of being and becoming. There are greater possibilities and capabilities that lay hidden within the bones and flesh of human beings. Some know the secrets at the right time and thus are able to discover dormant qualities and unfortunately, the non-receiver of real knowledge in an opportune time lie much behind and die just like worms.

<sup>1</sup> Ph.D. Scholar, Faculty of Education, ICAFI University Tripura.  
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Handwritten signature and initials: A large, stylized signature and the initials 'H' are written in black ink on the right side of the page.

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Handwritten signature: 'P. Srivastava' is written in black ink, with a horizontal line underneath it. Below the signature, there is a stamp that reads 'Principal, Faculty of Education, ICAFI University Tripura'.

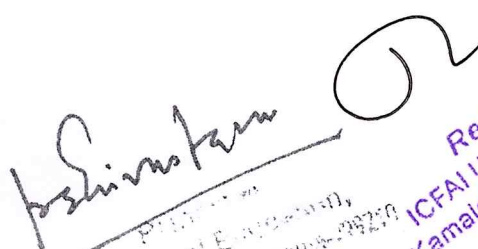


3. Indexing: [https://satraachee.org.in/wp-content/uploads/2023/12/SAT\\_40\\_N2\\_Final.pdf](https://satraachee.org.in/wp-content/uploads/2023/12/SAT_40_N2_Final.pdf)

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# A Study of Occupational Aspiration Level of Undergraduate Students in Reference to Locality and Gender

- Mr. Bheem Pad Mahto<sup>1</sup>
- Dr. A. Ranganath<sup>2</sup>

## **Abstract**

The development of an individual depends on nature and nurture, home environment has a major role in the development of an individual. The present study was aimed to explore the occupational aspiration level of undergraduate students with reference to home locality and gender. The study was conducted between male and female undergraduate students belonging to different academic streams. A quantitative method was applied followed by a descriptive survey design. The data was collected using the occupational aspiration scale, which were standardised and validated by Prof. N.P.S. Chandel, Dr. Vibha Laxmi, and Mr. Ranjit Kumar Singh. The response was collected from 80 undergraduate students. The researcher used the Mean, Median, Standard Deviation, and t test for analysis of data. The study reveals that undergraduate students have average Level of occupational aspirations. There is no significant difference between rural and urban undergraduate students on their occupational aspirations. Location has no bearing on undergraduate students' occupational aspirations. Both students are equally passionate about their occupation. There is no significant difference between undergraduate boys and girls on their occupational aspiration level.

**Keywords:** Occupational Aspiration, Undergraduate Students, Locality, Education

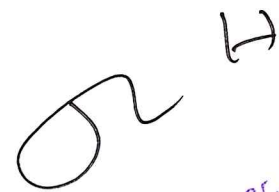
## **Introduction**

In present era rapid change in the life style and need of an individual in the world. Occupation is the way in which an individual spends his time through the life. The professional preparation and educational goals held during adolescence influence decision-making processes in ways that have long-term effects on the course of a young person's life. Students' aspiration are the combination of educational goals and vocational endeavors. it is own sense which relate to what they feel important elements to success in life style of their choosing. Education has become one of the most crucial aspects of life in the society in which we

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- Mr. Bheem Pad Mahto<sup>1</sup>
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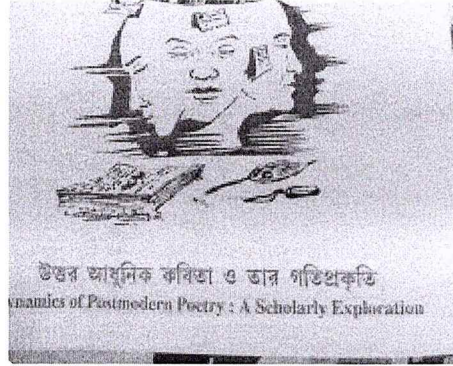
  
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iii. Screenshot of the UGC Care listing page with year.

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Sl. No.	Journal Title	Publisher	ISSN	E-ISSN	Period	Action
274	हिंदुस्तानी त्रैमासिक (print only)	Hindustan: Academy	0378-361X	NA	from April - 2021 to Present	View
275	हिन्दुस्तानी फ़झान (Hindi)	Hindustan: Prachar Sabha	NA	0378-392S	from July - 2022 to Present	View
276	हिमप्रस्थ	Department of Information and Public Relations, Government of Himachal Pradesh	2454-972X	NA	from July - 2024 to Present	View
277	हिमांजलि	Indian Institute of Advance Study	2349-4905	NA	from October - 2021 to Present	View
278	अगस्त्यन (print only)	Department of Assamese, Gauhati University	2250-247S	NA	from January - 2020 to Present	View
279	अनुसूत (print only)	Anustup Prakashan	0974-2697	NA	from January - 2020 to Present	View
280	अन्तर्मुख (print only)	Antarmukh	2249-3751	NA	from September - 2019 to Present	View

Showing 271 to 280 of 376 entries

The screenshot shows the Journal Details page for the journal 'Antarmukh'. The details are as follows:

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Journal Title (in English Language)	Antarmukh (print only) (Content Table of Content)
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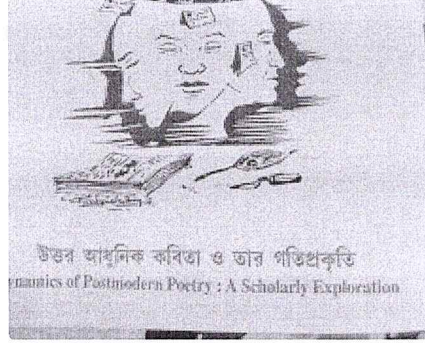
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2. Front page of the research paper:

Research Article

**Microfinance Research in India During 2001–2021: A Bibliometric Analysis with Its Social Impact Using Altmetrics**

Arijit Das<sup>1</sup> and Annesha Saha<sup>2</sup>

**Abstract**  
Microfinance has a significant impact on the country's development. It serves to support economically disadvantaged communities in achieving higher levels of wealth development and income security for both households and entire communities. It offers small loans to initiate micro-scale business activities, which fosters financial autonomy among them. It also promotes better society and growth of a nation. The objective of the study is to map the preceding research directions in the field of microfinance in India and offer guidance to writers and researchers working on the subject of microfinance in India by providing data on year-wise publications, citation patterns, authorship patterns, types of documents preferred by the researchers, preferred sources of communication and institutions mostly associated with microfinance-related literature in India. The study also covered the critical issues related to growth of microfinance in India. Major keywords used in the microfinance research and their association with other keywords, examine the preferred countries for collaboration by Indian authors in microfinance-related studies, and the social impact of top cited articles published during the study period.

**Key Words**  
Microfinance, India, Financial Autonomy, Bibliometrics, Altmetrics, Social Impact, VOSviewer

**Introduction**  
The concept of microfinance is not new. If we look back to nineteenth century, mutual credit societies played the role of micro-finance. In the early 1900s, the role of micro-finance in financial institutions was playing a vital role in the development of emerging nations. Over the past 20 years, government, development organizations, NGOs and others with the goal of reducing poverty in developing nations. One of the first micro-finance institutions was established in 1970 by Professor Muhammad Yunus, the originator of the term 'Microfinance' won the Nobel Peace Prize for facilitating very loans to help poor people to start business via Grameen Bank in Bangladesh. Microfinance makes it possible to provide financial accessibility to poor and marginalized segments, and those who do not have access to traditional banking and related services. It has gained popularity since the early 1990s, which offered the deprived class of the society to access financial services in the form of savings and credit opportunities.

The term 'microfinance' refers to a movement that aims to create a society, in which people with low incomes can access a variety of financial services provided by a number of rural providers in order to finance income-generating activities, accumulate assets, enhance consumption and mitigate risk, savings, credit, insurance, remittance, payments services, etc. among them. It has emerged as a powerful instrument for empowering marginalized and poor segment of the society. The expansion of the literature on micro-finance research is closely tied to the promotion of microfinance research. The politicians on microfinance have grown quickly along with the rise of micro-finance's use of the practice. The study aims to investigate year-wise publications, citation patterns, authorship patterns, types of documents preferred by the researchers, preferred sources of communication, institutions mostly associated with microfinance-related literature in India, major keywords used in the microfinance research and their association with other keywords, examine the preferred countries for collaboration by Indian authors in microfinance-related studies and the social impact of top cited articles published during the study period.

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1. Cover page of the Journal: <https://lisrbu.wixsite.com/dlis/rbu-journal-of-lis>

The screenshot shows the website cover for the RBU Journal of Library & Information Science. At the top, there is a navigation bar with links for 'About', 'PhD Awarded', 'Students', 'Students in JOB', 'Faculty Members', 'Education', 'List of Dissertation', and 'More...'. The main header features the university's name in Bengali and English, along with its address: Emerald Bover Campus, 56A, B.T. Road, Kolkata - 700 050, India. The journal's ISSN is 0972-2750. A banner states that the journal is qualified in UGC-CARE List Group D as per the analysis protocols as of 2019 and UGC approved Journal List S1, No. 2023 and journal No. 45237 as on 2017. Below this, there are buttons for 'Vol-26, 2023 Full Text', 'Vol-25, 2023 Full Text', and 'Vol-21, 2019 Full Text'. A notice indicates that the pre-print e-copy has been published and the print copy is under process. The 'Contents' section is partially visible at the bottom.

2. Front page of the research paper:

The image shows the front page of a research paper. The title is 'Correlating Research Impact Using Citation Counts and Altmetrics Attention Score: The Case of Six Universities in West Bengal'. The author is Dr. Arifur Das. The paper is published in the RBU Journal of Library & Information Science, Volume 26, 2023. The abstract discusses the purpose of the study, which is to analyze the relationship between citation count and altmetric score of top cited articles from six universities in West Bengal. The methodology involves selecting 35 top cited articles from each of the six universities. The findings indicate a positive and significant correlation between the number of citations and the altmetric attention score, as measured by Pearson's correlation coefficient (r) of 0.827. The conclusion is based on the data indexed in Scopus database only. The keywords are Citation Counts, Correlation, Article Citations, and Altmetrics in West Bengal.

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