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Designation: Assistant Professor

Branch: CSE

Educational Qualification(s):

Qualification(s)	University
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Ph.D (Pursuing)	NIT Silchar

Experience in years:

Academic:

Details:

Sl. No.	Organization	Position Held	Duration	
			From	To
1	HATIM	Assistant Professor	Aug, 2018	Feb, 2019

Other Information:

a) Publication details.

International Journals:

[1] A Roy, JL Pachuau, G Krishna, AK Saha. (2024). Applying Grover's algorithm to implement various numerical and comparison operations. Quantum Studies: Mathematics and Foundations , Vol. 11, pp. 291–306. Scopus Indexed. Impact Factor: 0.9. DOI: 10.1007/s40509-024-00323-w

[2] JL Pachuau, P Kashyap, A Kumar, R Paul, P Id, B Chandrakiran, S Debnath, AK Saha. (2022). Segmentation of composite signal into harmonic Fourier expansion using genetic algorithm. International Journal of Information Technology, Vol. 14, Issue 4, pp. 3507-3515. Springer. 07 May 2022. Scopus Indexed. DOI: 10.1007/s41870-022-00944-7

[3] JL Pachuau, AK Saha. (2022). Generic conversion method for various spatial domain filters in quantum image processing. Physica A: Statistical Mechanics and its Applications, Vol. 596, pp. 127196. 15 June 2022. SCIE Indexed. Impact Factor: 2.8 DOI: 10.1016/j.physa.2022.127196

[4] JL Pachuau, A Roy, AK Saha. (2022). Integer numeric multiplication using quantum Fourier transform. Quantum Studies: Mathematics and Foundations , Vol. 9, Issue 1, pp. 155-164. February 2022. Scopus Indexed. Impact Factor: 0.9. DOI: 10.1007/s40509-021-00262-w

[5] A Roy, JL Pachuau, AK Saha. (2021). An overview of queuing delay and various delay based algorithms in networks. In Computing, Vol. 103, Issue 10, pp 2361-2399. Springer Vienna.18 June 2021. SCIE Indexed. Impact Factor: 3.3 DOI: 10.1007/s00607-021-00973-3

[6] JL Pachuau, A Roy, G Krishna, AK Saha. (2021). Estimation of traffic matrix from links load using genetic algorithm. Scalable Computing: Practice and Experience , Vol. 22, Issue 1, pp. 129-38. 9 February 2021. Scopus Indexed. Impact Factor: 1.1 DOI: 10.12694/scpe.v22i1.1834

Book Chapters:

[1] AK Saha, JL Pachuau, A Roy, CT Bhunia. (2023). GA-based energy efficient modeling of a wireless sensor network. In Advances in Computers, Vol. 128 pp. 381-398. Elsevier. 24 January 2023. SCIE Indexed. Impact Factor: 2.7 DOI: 10.1016/bs.adcom.2021.10.009

[2] A Roy, JL Pachuau, AK Saha. (2023). Qubit representation of a binary tree and its operations in quantum computation. In Advances in Computers, Vol. 128, pp 273-286. Elsevier. 24 January 2023. SCIE Indexed. Impact Factor: 2.7 DOI: 10.1016/bs.adcom.2021.10.005

International Conference:

[1] A Roy, JL Pachuau, NB Singh, and AK Saha. (2024). Solving dense subgraph problems using genetic algorithm. In 2024 International Conference on Artificial Intelligence and Deep Learning Technologies (TENCON). IEEE.

[2] JL Pachuau, NB Singh, LD Singh, AK Saha. (2023). Solving dense subgraph problems using genetic algorithm. In TENCON 2023-2023 IEEE Region 10 Conference , pp. 674-679. IEEE. 22 November 2023, Chiang Mai, Thailand. DOI: 10.1109/TENCON58879.2023.10322484

[3] NB Singh, G Krishna, A Roy, JL Pachuau, AK Saha. (2023). An experimental study on binary optimization using quantum annealing in D-Wave. In 2022 Seventh International Conference on Informatics and Computing (ICIC), pp. 1-5. IEEE. 13 January 2023, Denpasar, Bali, Indonesia. DOI: 10.1109/ICIC56845.2022.10007004

[4] JL Pachuau, A Roy, AK Saha. (2021). An Overview of Crossover Techniques in Genetic Algorithm. In Modeling, Simulation and Optimization , Vol. 1, pp 581-598. Springer Nature. 18 June 2021. DOI: 10.1007/978-981-15-9829-6_46. ISBN: 978-981-15-9828-9.