Name: ALOKEPARNA CHOUDHURY

Designation: Assistant Professor

Qualifications: M.E. (Computer Science & Engineering), Ph.D. in CSE

(Pursuing)

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Educational Qualification

- Ph.D. in Computer Science & Engineering (Pursuing) from Indian Institute of Information Technology, Kalyani
- M. E. in Computer Science & Engineering from University Institute of Technology, Burdwan University.
- B. E. in Computer Science & Engineering from University Institute of Technology, Burdwan University.

Professional Qualification

- 6 Weeks ASP.NET Vocational Training on Matrimony Information System By NIVT during June 2012 to July 2012.

- Two days Workshop on Network Implementation & Security at University Institute of Technology, The University of Burdwan Organized by Association for Computing Machinery (ACM) - IIT Delhi and Network Bulls, From: 22.03.2014 To 23.03.14.

- CSI Kolkata Chapter Sponsored Two-Day Workshop on Emerging Trends in Image Processing, Computer Vision and Pattern Recognition (IPCVPR-2018) Organized by Department of Computer Science & Electronics, Ramakrishna Mission Vidyamandira, Belur Math, Westbengal, India, From :28.03.2018 To 29.03.18.

Areas of specialization and Research

- Quantum Computing
- Soft Computing
- Intelligent Systems
- Nature Inspired Computing
- Medical Image Processing
- Optimization
- Computer Vision
- Metaheuristic Algorithms
- Quantum Machine Learning

Teaching Experiences

- Guest Lecturer in the Department of Computer Science, SXCB from July, 2016 to June, 2017.
- Assistant Professor in the Department of Computer Science and Application, SXCB from July, 2017 to till date.

Publications

- **Alokeparna Choudhury**, Sourav Samanta, Nilanjan Dey, Dana V. Balas-Timar, Mitko Gospodinov, Evgeniya Gospodinova, Amira S. Ashour, *Microscopic Image Segmentation using Quantum Inspired Evolutionary Algorithm,* Journal of Advanced Microscopy Research, Volume 10, Number 3, September 2015, pp. 164-173(10),**DOI:** 10.1166/jamr.2015.1257 [Scopus Indexed]

- Sourav Samanta, **Alokeparna Choudhury**, Amira S. Ashour , Nilanjan Dey, Valentina E. Balas, Application of Quantum Inspired Evolutionary Algorithm in Medical Imaging for Optimization of Scaling Factors during Embedding of Manifold Medical Information, Quantum Inspired Computational Intelligence: Research and Applications, **Publisher: Elsevier**, Editors: S Bhattacharyya, et al. **ISBN: 9780128044094**

- Jagatheesan, Sourav Samanta, **Alokeparna Choudhur**y, Nilanjan Dey, B.Anand, Amira S. Ashour,Quantum Inspired Evolutionary Algorithm in Load Frequency Control of Multi-area Interconnected Thermal Power System with Non-linearity In Book: Quantum Computing: An Environment for Intelligent Large Scale Real Application **Publisher: Springer**, Editors: Aboul Ella Hassanien, Mohamed Elhoseny, Janusz Kacprzyk, **eISBN: 978-3-319-63639-9, Print ISBN : 978-3-319-63638-2.**

- **Alokeparna Choudhur**y, Sourav Samanta, Cloud based ICT infrastructure for Endangered Language Protection and Preservation, pp. 15-18 , CSI Communications, June 2018, **ISSN: 0970-647X.**

- **Alokeparna Choudhur**y, Sourav Samanta, Sanjoy Pratihar & Oishila Bandyopadhyay, Multilevel segmentation of Hippocampus images using global steered quantum inspired firefly algorithm. **Applied Intelligence, Springer,** 52, 7339–7372 (2022). https://doi.org/10.1007/s10489-021-02688-6, **ISBN: 10.1007/s10489-021-02688-6**

- **Alokeparna Choudhur**y, Sourav Samanta, Sanjoy Pratihar & Oishila Bandyopadhyay, Segmentation of Brain MR Images Using Quantum Inspired Firefly Algorithm with Mutation. In: Rojas, I., Valenzuela, O., Rojas, F., Herrera, L.J., Ortuño, F. (eds) Bioinformatics and Biomedical Engineering. IWBBIO 2022. Lecture Notes in Computer Science(Book Series), vol. 13346. **Springer, Cham**. https://doi.org/10.1007/978-3-031-07704-3_30 (2022), **Online ISBN: 978-3-031-07704-3, Print ISBN: 978-3-031-07703-6**

Other Skills/Hobbies/Interests

- Singing, Writing, Reading, Planting, Theatre, Travelling, Communicating, and Research.