Dr. Biplab Kanti Sen

Assistant Professor (W.B.E.S.)
Computer Science
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Specialization: Wireless sensor network, Optimization Theory, Graph-Based Modeling.

Major Interest Areas: Sensor-Cloud, Internet of Things (IoT), Artificial Intelligence, Federated Learning, Optimization Techniques, Graph Theory Applications.

Academic Credentials:

- *Ph.D.: University of Calcutta, Kolkata, India*
- *M.Tech: University of Calcutta, Calcutta, India*

Teaching Experience

- *Serving as an Assistant Professor in Computer Science at P. R. Thakur Government College.*
- *Served as an Assistant Professor in the Department of Computer Science at APC Roy Government College.*
- *Served as a Part-Time Teacher in the Department of Computer Science and Engineering at the Government College of Engineering and Textile Technology.*

Coursestaken:

- Undergraduate course in Computer Science as per West Bengal State University Syllabus (CBCS and NEP).
- Undergraduate course in Computer Science as per North Bengal University Syllabus (CBCS and NEP).
- B,Tech course in Computer Science Engineering as per MAKAUT Syllabus.

Research Interest:

- Sensor-Cloud
- IoT Systems
- Machine Learning & Deep Learning
- Optimization Methods
- Graph Theory Applications

Research Experience:

- Worked as a Full-Time Senior Research Assistant under the TEQIP Scholarship in the Department of Computer Science and Engineering, University of Calcutta.

List of Publications:

1. Sen, B.K., Khatua, S. and Das, R.K., 2023. Multichannel Pipelined Scheduling for Raw Data Convergecast in Sensor-Cloud. Mobile Networks and Applications, pp.1-17.

2. Sen, B.K., Sarkar, A., Khatua, S. and Das, R.K., 2020. Cost-effective routing as a service in sensor-cloud. International Journal of Sensor Networks, 32(1), pp.42-53.

3. Sen, B.K., Khatua, S. and Das, R.K., 2019. Optimal mapping of applications on data centers in sensor-cloud environment. Advanced Computing and Systems for Security: Volume Seven, pp.131-142.

4. Sen, B.K., Khatua, S. and Das, R.K., 2015, December. Target coverage using a collaborative platform for sensor cloud. In 2015 IEEE International Conference on Advanced Networks and Telecommuncations Systems (ANTS) (pp. 1-6). IEEE.

5. Biswas, Sen, B.K., 2019. Color PET-MRI medical image fusion combining matching regional spectrum in shearlet domain. International Journal of Image and Graphics, 19(01), p.1950004.

6. Biswas, Sen, B.K., 2020. Medical image fusion using type-2 fuzzy and near-fuzzy set approach. International Journal of Computers and Applications, 42(4), pp.399-414.

7. Biswas, Sen, B.K., Satellite Image Contrast Enhancement Using Fuzzy Termite Colony Optimization. Hybrid Metaheuristics for Image Analysis. 2018:115-44.

8. Biswas, Sen, B.K., 2015, November. Medical image fusion technique based on type-2 near fuzzy set. In 2015 IEEE International Conference on Research in Computational Intelligence and Communication Networks (ICRCICN) (pp. 102-107). IEEE.

List of Books/Book Chapters:

- Sen, B.K., Khatua, S. and Das, R.K., 2018. Optimal Mapping of Applications. Advanced Computing and Systems for Security: Volume Seven, 897, p.131.

List of Honours/Awards:

- Received the Best Paper Award for the paper titled "Target Coverage Using a Collaborative Platform for Sensor Cloud" at IEEE ANTS 2015, held at ISI Kolkata.

Editor / Editorial Board Member / Reviewer:

- Served as a Reviewer for the International Conference on Smart Systems and Wireless Communications (SSWC 2024).