Dr. Goutam Sen

Assistant Professor

Industrial & Systems Engineering, IIT Kharagpur, West Bengal 721302, India

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Field of Specialization:

Mathematical Programming and Large Scale Optimization Techniques

Educational Qualifications:

- **Doctor of Philosophy** (2009-2015)
  Thesis title: Models and Algorithms for Static Data Segment Location in Information Networks
  Institutes: The degree was jointly awarded by IIT Bombay, India and Monash University, Australia
- **Bachelor of Technology** (2004 - 2008)
  Stream: Computer Science and Engineering
  Institute: Kalyani Govt. Engineering College, affiliated to West Bengal University of Technology, Kolkata, India
  BTech project carried out in Indian Statistical Institute Calcutta.

Teaching Experience:

Jan 2016 - to date at ISE, IIT Kharagpur

- ***Theory courses:*** Work Systems Design (BTech and MTech), Operations Research-I (BTech)
- ***Lab Courses:*** Work System Design Lab (BTech & MTech), Optimization and Heuristic Methods Project (BTech), Information Systems Project (MTech), Simulation Lab (BTech)

List of Publications:

Journal Papers (International):

1. **Sen, G.**, Krishnamoorthy, M., Rangaraj, N., & Narayanan, V. (2015). Exact approaches for static data segment allocation problem in an information network. Computers & Operations Research, 62, 282-295.

2. **Sen, G.**, Krishnamoorthy, M., Rangaraj, N., & Narayanan, V. (2016). Facility location models to locate data in information networks: a literature review. Annals of Operations Research, 246(1-2), 313-348.

3. **Sen, G.**, Krishnamoorthy, M., Rangaraj, N., & Narayanan, V. (2016). Mathematical models and empirical analysis of a simulated annealing approach for two variants of the static data segment allocation problem. Networks 68 (1), 4-22.

4. **Sen, G.**, & Krishnamoorthy, M. (2017). Discrete Particle Swarm Optimization Algorithms for Two Variants of the Static Data Segment Location Problem. Applied Intelligence 48 (3), 771-790.

5. Kumar, R., **Sen, G.**, Das, S., & Tiwari, M. K. (2018). Station Dispatching Problem at Howrah Railway Station – Constraint Programming Approach. Interfaces, INFORMS, accepted/in press.

Conference Proceedings (International):

1. Goutam Sen, Mohan Krishnamoorthy, Vishnu Narayanan, Narayan Rangaraj, "A Benders Decomposition Approach for Static Data Segment Location to Servers Connected by a Tree Backbone", Operations Research Proceedings, Springer Verlag, *accepted, in press*, OR2015, Vienna, 1-4 Sep, 2015

2. Sunil Sindhu and **Goutam Sen**, "An optimal scheduling policy for satellite constellation deployment," 2017 IEEE International Conference on Industrial Engineering and Engineering Management (IEEM), Singapore, 2017, pp. 100-104. doi: 10.1109/IEEM.2017.8289859

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