Subhrangsu Mandal

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RESEARCH INTERESTS

Temporal Graph Algorithms, Distributed Algorithms, Dynamic Graph Algorithms.

EDUCATION

Ph.D. in Computer Science & Engineering (2014 - Present)
Institute: Indian Institute of Technology Kharagpur, West Bengal, India
Thesis: Algorithms on Temporal Graphs **(Thesis submitted)**
Supervisor: Prof. Arobinda Gupta

M.Tech. in Computer Science & Engineering (2010 - 2012)
Institute: Indian Institute of Technology Guwahati, Assam, India
Thesis: Deterministic 1-2 Skip List in Distributed Systems
Supervisor: Dr. Sushanta Karmakar

B.E. in Computer Science & Technology (2005 - 2009)
Institute: Bengal Engineering and Science University, Shibpur, West Bengal, India
Thesis: Document Image Compression and Processing of Image in Compressed Domain
Supervisor: Prof. Amit Kumar Das

Higher Secondary (Class XII Board Examination) (2005)
Board: West Bengal Council of Higher Secondary Education
Institute: Krishnath College School, Berhampore, West Bengal, India

Secondary (Class X Board Examination) (2003)
Board: West Bengal Board of Secondary Education
Institute: Krishnath College School, Berhampore, West Bengal, India

PUBLICATIONS

JOURNALS

1. **Subhrangsu Mandal** and Arobinda Gupta, *Convergecast Tree on Temporal Graphs*, International Journal of Foundations of Computer Science, World Scientific, Volume 31, Issue 3, Pages 385-409, 2020.

2. **Subhrangsu Mandal**, Sandip Chakraborty and Sushanta Karmakar, *Distributed Deterministic 1-2 Skip List for Peer-to-Peer System*, Peer-to-Peer Networking and Applications, Springer, Volume 8, Issue 1, Pages 63-86, 2015.

CONFERENCES

1. **Subhrangsu Mandal**, Anisur Rahaman Molla and William K. Moses Jr., *Live Exploration with Mobile Robots in a Dynamic Ring, Revisited*, 16th International Symposium on Algorithms and Experiments for Wireless Sensor Networks (ALGOSENSORS), Pages 92-107, September 9-10, 2020, Pisa, Italy.

2. **Subhrangsu Mandal** and Arobinda Gupta, *0-1 Timed Matching in Bipartite Temporal Graphs*, 6th International Conference on Algorithms and Discrete Applied Mathematics (CALDAM), Pages 331-346, February 13-15, 2020, Hyderabad, India.

3. **Subhrangsu Mandal** and Arobinda Gupta, *Approximation Algorithms for Permanent Dominating Set Problem on Dynamic Networks*, 14th International Conference on Distributed Computing and Internet Technology (ICDCIT), Pages 265-279, January 11-13, 2018, Bhubaneswar, India..

4. **Subhrangsu Mandal** and Arobinda Gupta, *Permanent Dominating Set on Dynamic Graphs*, 8th International Conference on Communication Systems and Networks (COMSNETS), Pages 1-2, January 5-10, 2016, Bangalore, India.

5. **Subhrangsu Mandal**, Sandip Chakraborty and Sushanta Karmakar, *Deterministic 1-2 Skip List in Distributed System*, 2nd IEEE International Conference on Parallel, Distributed and Grid Computing (IEEE PDGC), Pages 296-301, 06-08 December 2012, Solan, India (2nd Best Paper Award).

6. Soumyadeep G. Dastidar, **Subhrangsu Mandal**, Ferdous A. Barbhuiya, Sukumar Nandi, *Detecting Metamorphic Virus Using Hidden Markov Model and Genetic Algorithm*, 2nd International Conference on Soft Computing for Problem Solving (SocProS), Pages 305-315, 20-22 December, 2011, Roorkee, India (Best Paper Award).

PRESENTATIONS

ORAL PRESENTATIONS

1. **Subhrangsu Mandal** and Arobinda Gupta, *0-1 Timed Matching in Bipartite Temporal Graphs*, 6th International Conference on Algorithms and Discrete Applied Mathematics (CALDAM), 2020

2. **Subhrangsu Mandal** and Arobinda Gupta, *Approximation Algorithms for Permanent Dominating Set Problem on Dynamic Networks*, 14th International Conference on Distributed Computing and Internet Technology (ICDCIT), 2018

POSTER PRESENTATION

1. **Subhrangsu Mandal** and Arobinda Gupta, *Permanent Dominating Set on Dynamic Graphs*, 8th International Conference on Communication Systems and Networks (COMSNETS), 2016

TEACHING ASSISTANTSHIPS

- Algorithm Design and Analysis
- Algorithms-1
- Distributed Systems
- Programming & Data Structures
- Operating Systems

SCHOLARSHIPS

- MHRD Scholarship from IIT Kharagpur for Doctoral Studies.
- UGC NET (University Grants Commission - National Eligibility Test) with Junior Research Fellowship award in Computer Science and Application, June 2015.

INDUSTRY EXPERIENCE

- **Software Engineer 2, Citrix R&D India Pvt. Ltd.** (2012- 2014)
  Was part of the development team of video caching feature in Cloudbridge product.

- **Associate System Engineer, IBM India Pvt. Ltd.** (2009- 2010)
  Worked as SAP ABAP developer for different clients.

PERSONAL DETAILS

Address: 119, Sutirmath (East), P.O.: Berhampore, Berhampore - 742101,
Murshidabad, West Bengal, India
Date of Birth: 7-January-1988
Nationality: Indian