

Workshop on Large Scale Complex Network Analysis (LSCNA 2015) Program

Saturday, December 19, 2015

9:30 am – 10:00 am	Registration
10:00 am – 10:05 am	Opening Remarks: Nabanita Das, Indian Statistical Institute, Kolkata
10:05 am -10:10 am	Welcome Address: Director, Indian Statistical Institute, Kolkata
10:10 am – 10:15 am	Vote of Thanks: Subhankar Dhar, San Jose State University, San Jose, CA
10:15 am - 11:15 am	Keynote Talk 1: <i>Enhanced RWA Solutions for Very Large Data Instances</i> Speaker: Brigitte Jaumard, Concordia University, Montreal Session Chair: Biswanath Mukherjee, University of California, Davis
11:15 am - 11:30 am	Tea Break
11:30 am – 12:15 pm	Keynote Talk 2: <i>Data Obfuscation</i> Speaker: Bimal Roy, Indian Statistical Institute, Kolkata Session Chair: Subhankar Dhar, San Jose State University, San Jose, CA
12:15 pm – 1:15 pm	Keynote Talk 3: <i>Mechanism Design for Strategic Crowdsourcing Networks for Geosensing Applications</i> Speaker: Y. Narahari, Indian Institute of Science, Bangalore Session Chair: Bhargab B. Bhattacharya, ISI, Kolkata
1:15 pm – 2:15 pm	Lunch
2:15 pm – 3:15 pm	Panel Discussion: <i>State of the Art of Large Scale Complex Networks: Problems and Challenges</i> – Panel Chair: Subhankar Dhar, San Jose State University, San Jose, CA Panelists: Brigitte Jaumard, Concordia University, Montreal Ananth Kalyanaraman, Washington State University, Pullman Prasant Mohapatra, University of California, Davis Y.Narahari, Indian Institute of Science, Bangalore Balaraman Ravindran, Indian Institute of Technology, Madras
3:15 pm – 4:00 pm	Invited Talk: <i>On Scaling Graph Algorithms for the New Age Biological Sciences</i> Speaker: Ananth Kalyanaraman, Washington State University Session Chair: Prasant Mohapatra, University of California, Davis
4:00 pm – 4:15 pm	Tea Break
4:15 pm – 5:15 pm	Technical Session 1 – Modeling of Large Scale Complex Networks Session Chair: Ananth Kalyanaraman, Washington State University, Pullman <i>Mathematical Modeling of Failure Propagation in Interdependent Networks</i> - Abhishek Roy and Biswanath Mukherjee <i>$O(N^2)$ Heuristic for the Estimation of Driver Nodes for the Controllability of Directed Complex Networks</i> - Amitava Mukherjee, Abhijit Bhattacharya, Ayan Chatterjee,

Debayan Das, Mrinal K Naskar, Amitava Chakraborty, Sagnik Chowdhury, Sayantan Bera, Saptarshi Pal, Purbesh Mitra

Testing for Characteristics of Attribute linked Infinite Networks based on Small Samples

- Koushiki Sarkar and Diganta Mukherjee

Empirical Analysis of Weighted Coincidence Learning in a Hopfield Neural Network-

Arnav Das

Technical Session 2 – Large Scale Computer Networks

Session Chair: Amitava Mukherjee, IBM

5:15 pm- 5:45 pm

On Corona-based Non-uniform Node Deployment to Maximize Lifetime in Multi-Hop Wireless Sensor Networks - Punyasha Chatterjee

Minimizing Spread of Virus Infection in a Dynamic Large Scale Networks -

Kaustav Barbaruah, and Arindam Karmakar

7:00 pm – 9:00 pm

Networking Reception & Dinner

Sunday, December 20, 2015

Technical Session 3 – Social Networks

Session Chair: Balaraman Ravindran, IIT Madras

9:30 am – 10:30 am

GPU Accelerated Analysis and Simulation of Large Scale Networks -Chirag Gupta

Enhancing the spread of information in a network and restricting the flow of negative information - Pawan Kumar Mishra, Arindam Karmakar and Malay Anand Dutta

An Iterative System for Event Detection and Trend Analysis for Twitter Data

- Dilip Mallya, Apoorva Chandra, JNVK Chaitanya and Sowmya Kamath

10:30 am – 11:15 am

Modelling Graph Structures for Efficient Detection of Overlapping Communities in Complex Networks - Chandra Sekhar Vorugunti

Invited Talk: *Extracting Information from Microblogs during Disaster Events: A Classification-Summarization Approach*

Speaker: Niloy Ganguly, IIT Kharagpur

Session Chair: Bhabani P. Sinha, ISI Kolkata

11:15 am – 11:30 am

Tea Break

11:30 am – 12:15 pm

Invited Talk: *CEIL: A Scalable, Resolution Limit Free Approach for Detecting Communities in Large Networks*

Speaker: Balaraman Ravindran, IIT Madras

Session Chair: Mandar Mitra, ISI Kolkata

	Technical Session 4 – Scale Free Networks Session Chair: Niloy Ganguly, IIT Kharappur
12:15 am – 12:45 pm	<i>Influence of Greedy Reasoning on Network Evolution</i> - Abhishek Chakraborty, Vineeth B. S., and B. S. Manoj
	<i>On Betweenness Centrality Measures of Large Scale Networks</i> - Arnab Kumar Ghoshal
12:45 pm – 1:00 pm	Closing Remarks
1:00 pm – 2:00 pm	Lunch