Sunday, July 7, 2013

- 8.30-10.10: Session 1:
 - Identifying Large Dense Clusters in Networks: Exact Optimal Solutions and Asymptotic Phase Transitions, Vladimir Boginski, Alexander Veremyev, Sergiy Butenko, Pavlo Krokhmal, Jeffrey Pattillo and David Jeffcoat
 - Centrality Measures Based on Communicability Functions, Christine Klymko and Michele Benzi
 - o From the Birthday Paradox to a Practical Sublinear Space Streaming Algorithm for Triangle Counting, *Madhav Jha, C. Seshadhri and Ali Pinar*
 - o Euclidean hub-and-spoke networks, John Carlsson
 - On network design under uncertain arc capacities, Alper Atamturk and Avinash Bhardwaj
- 10.10 to 10.30: coffee break
- 10:30 to 12:10: Session 2
 - Degree Distributions and the Critical Surface of Epidemic Spreading, Dong Han and Tze Leung Lai
 - Cults, mobs and segregation in spread of opinions in co-evolving networks Nishant Malik and Peter Mucha
 - Affect of network structure on influence maximization in dynamic networks, Habiba and Tanya Berger-Wolf
 - Uncertainty Management for Consensus Problem over Random Graphs, Hadi Meidani and Roger Ghanem
- 11:50 to 1:30: Lunch
- 1:30 to 2:20: Invited Talk: Network Science: Algorithms, Epidemiology, Open Questions Aravind Srinivasan, University of Maryland, USA
- 2:20 to 3:10: open discussion
- 3:10 to 3:30: coffee break
- 3:40 to 5:10: Session 3
 - Neyman-Pearson Covert Network Detection, Steven Smith, Kenneth Senne and Edward Kao
 - Parallel Regularized Markov Clustering (RMCL), S M Faisal, Siddharth Varia, Srinivasan Parthasarathy and Ponnuswamy Sadayappan
 - Triangle Core Decompositions and Maximum Cliques, Ryan Rossi, David Gleich, and Assefaw Gebremedhin
 - On clustering heterogeneous networks, Forough Poursabzi Sangdeh and Ananth Kalyanaraman
 - Graph Clustering in SPARQL, Adam Lugowski, Steve Reinhardt, Kevin Deweese and John Gilbert
- 5:10 to 5:40: Poster presentations
- 5:40 to 7:00: Poster viewing

Monday, July 8, 2013

- 8:30 9:15 Invited Talk: Social Networks as Information Filters, Lada Adamic, U. Michigan, Ann Arbor
- 9:20 10:00: Session 4
 - Sparsity in network alignment via weight penalties, David Gleich, Mahantesh
 Halappanavar, Arif Khan and Alex Pothen
 - o Effect of Network Perturbation on Betweenness Centrality, Vladimir Ufimtsev, Abhijin Adiga, Sanjukta Bhowmick and Anil Kumar Vullikanti
- 10:00 10:30: Coffee break
- 10:30 11:30 Session 5
 - Phase Transition and Connectivity in Random Intersection Graphs, *Milan Bradonjic, Aric Hagberg, Nick W. Hengartner, Lemons Nathan and Allon G. Percus*
 - Dynamic networks generative model for skewed component distribution, Habiba, Chayant Tantipathananandh and Tanya Berger-Wolf
 - o Winning networks with MUSKETEER, Alexander Gutfraind, Lauren Meyers and Ilya Safro.
- 11:30 12:20: Open discussion
- 2:00 3:00: Session 6
 - Synchrony in Stochastically Driven Neuronal Network with Complex Topology, Katherine Newhall, Max Shkarayev, Peter Kramer, Gregor Kovacic and David Cai
 - o A network measure for the analysis of large-scale graphs, Roldan Pozo
 - A Simple, Efficient Preconditioner for Graph Laplacians, Erik G. Boman and Kevin Deweese
- 3:00 3:30: Wrap-up and next steps

List of posters

- A Scalable Generative Graph Model with Community Structure for Benchmarking, Tamara Kolda, Ali Pinar, Todd Plantenga and C. Seshadhri
- Characterizing Important Nodes in a Network as Effective Spreaders, Fern Hunt.
- The OFDMA WMN Resource Allocation Problem, Miri Priesler and Arie Reichman.
- Quantification of longitudinal changes in cortical network circuitry prompted by traumatic brain injury, Andrei Irimia, Matthew Goh, Carinna Torgerson, Micah Chambers, Bo Wang, Marcel Prastawa, Paul Vespa, Jeffry Alger, Guido Gerig, Stephen Aylward, Arthur Toga, Ron Kikinis and John Van Horn.
- Fair sharing of resources in a supply network with constraints, *Rui Carvalho, Lubos Buzna, Wolfram Just, Dirk Helbing and David Arrowsmith.*
- Mathematical Macrosimulation of Different Control Strategies in Congestion Propagation, Seyed Hossein Hosseini Nourzad and Anu Pradhan.
- Exploring Paths Through Large Networks, *Emilie Hogan, John Johnson and Mahantesh Halappanavar*.
- FASCIA: Fast Approximate Subgraph Counting and Enumeration, *George Slota and Kamesh Madduri*.
- Robust Network Clusters with Short Path Connectivity Constraints, Alexander Veremyev, Vladimir Boginski and Eduardo Pasiliao.
- Clique Relaxations in Network Analysis, Sergiy Butenko.
- Analyzing Shakespeare's Plays From A Network Perspective, Vikas Thotakuri and Sanjukta Bhowmick
- Population Persistence in River Networks, Jonathan Sarhad, Robert Carlson, and Kurt E. Anderson