International Workshop on

Modeling, Analysis and Management of Social Networks and their Applications

SOCNET 2014

Call for Papers

March 19, 2014
Bamberg, Germany

http://www.mmb2014.de/index.php/workshops/socnet2014

General Information

SOCNET 2014 is a workshop at MMB & DFT 2014 on modeling, analysis, and management of complex social networks. The term social network denotes the social structure that emerges from human actors' interaction with each other. Over the years, scholars in the domain of anthropology, sociology, psychology, economics and organizational theory have proposed different methods and techniques to discover these structures and to draw conclusions about the functioning of social networks, and network outcomes. Practical applications of social network analysis constitute a very important, rapidly growing area in modern interconnected information society. The related scientific concepts incorporate a variety of methods from graph theory, computer science, and statistics, among others.

The workshop will cover all aspects of modeling, analysis, and management of social networks and the applied methodologies arising in social network analysis and theory. It ranges from purely theoretical achievements to practical applications regarding the structural inference, modeling, analysis, simulation, and control, as well as usage of social networks.

The workshop is interdisciplinary in nature. We invite contributions from many interdisciplinary fields, including but not restricted to, information systems, computer science, economics, management, sociology, psychology, anthropology, biology and physics in order to fully incorporate the methodological, technical as well economic aspects of social network analysis. We also invite practitioners who will enrich the discussion through their experiences with business applications of social networking sites. Fresh ideas will be exchanged and open problems and new directions will be discussed in a cross-disciplinary setting.

The workshop is co-located with the 17th International GI/ITG Conference on "Measurement, Modelling and Evaluation of Computing Systems" and "Dependability and Fault-Tolerance" (MMB & DFT 2014).

Topics

SOCNET 2014 solicits novel unpublished material on modeling, analysis and management of social and complex networks. Topics of interest include (but are not limited to):

- **Modeling and Analysis**
    - analysis of random graph models and multiplicative stochastic processes
    - percolation properties of equilibrium and growing networks
    - characterization, inference and evolution of topologies
    - robustness and vulnerability of network infrastructures
    - influence and epidemic spreading in complex networks
    - investigation of scalability properties
    - algebraic and graph-theoretical partitioning techniques and spectral optimization of modularity concepts
    - formation of communities and their algorithmic detection
    - network evolution, and dynamic social network analysis
    - exponential random graph (p*) models
    - models accounting for network autocorrelation
    - relationship between structural properties of social networks and
    - individual, group, and organizational performance
    - new data collection methods
    - methods and tools for network visualization

- **Inference and Simulation Algorithms**
    - inference of complex network properties in deployed infrastructures
    - structural inference and analysis of user behavior in social networks
    - immunization strategies for NGNs
    - tools supporting analysis, inference and prediction of complex networks

- **Complex Network Methodologies**

    - emergent properties of real networks
    - synchronization in complex and social networks
    - signaling, management and distributed control protocols
    - control methods and algorithms for complex and social networks

Submissions

Authors are encouraged to submit a PDF version of their original contribution either as an extended abstract of 4 pages or as a short paper not exceeding 6 pages. All submissions must adhere to a single-column LNCS conference format with a font size not smaller than 10 points.
The paper must be submitted electronically before the deadline via Easychair at URL:

http://www.easychair.org/conferences/?conf=socnet2014

Notification of acceptance will be sent to the authors not later than December 5, 2013. In case of acceptance the final PDF version of the full paper is due by December 20, 2013.
All accepted contributions will appear in the workshop proceedings. Registration of at least one co-author as workshop or conference participant before the deadline is required.

Important Dates

- **Submission deadline (extended): October 25, 2013**
- Acceptance notification: December 5, 2013
- Camera-ready version (extended): January 5, 2014
- **Authors' registration deadline:** *February 15, 2014*
- **Workshop: March 19, 2014**

Organizing Committee

General Chairs

- Kai Fischbach, University of Bamberg, Germany
- Udo Krieger, University of Bamberg, Germany

Local Arrangement Co-Chairs

- Cornelia Schecher, University of Bamberg, Germany
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- Katharina A. Zweig, TU Kaiserslautern, Germany

Further Information

Regarding further details on the venue, travel information and registration process please check the web page of 17th MMB & DFT2014 at URL:

http://www.mmb2014.de/