

# Call for Papers

## 1<sup>st</sup> Workshop on Dynamic Social Networks

### DySON

April-May 2014, Toronto, Canada  
Co-located with IEEE INFOCOM 2014

#### Scope

Social wireless and mobile networks have gained considerable interest over the last five to ten years and have become in many cases the lion's share of wireless businesses. Such networks are now well known as the primal channels for communication between people, means for increasing marketing potentials, tools for enabling social research, and forums for affecting political trends, all of which eventually indicate a more than ever increasing penetration and exploitation of wireless and mobile networks in human lives.

The proposed workshop (DySON) will mainly cover the technical aspects of the interplay between social and wireless mobile networks, and more specifically will focus on original contributions regarding topics, such as structure, behavior, and optimization of social and mobile wireless networks. DySON aspires to raise the awareness of the research and industrial communities in the important topics of control and optimization in social wireless mobile networks and provide a venue for the presentation and dissemination of latest original contributions in the corresponding field of science.

#### Topics of interest include (but are not limited to)

- Interplay between online social networks and wireless communications
- Network Utility Maximization (NUM)
- Primal-Dual decomposition for network algorithms
- Optimal control of networks
- Stochastic network optimization
- Cross-layer network optimization
- Spectrum-agile network optimization
- Game theoretic and economic analysis
- Social relationship graphs of mobile devices
- Topology Control for complex networks
- Resilience and fault-tolerant network optimization
- Mobile cyber-physical systems
- Control and optimization in cyber-physical systems
- Optimal content dissemination in complex networks
- Complex network structure analysis and optimization
- Complexity and approximation of social/mobile network optimization
- Control and optimization in social-aware network solutions
- Graph theoretic analysis for mobile complex (social and wireless) networks
- Structure of social networks and their influence to the design of advanced wireless networks
- Adaptive algorithms for evolving online social and wireless networks
- Social-aware network solutions in wireless communications
- Complexity and approximation of social/mobile network optimization and control techniques

#### Workshop Organizers

##### General Co-Chairs:

Dr. Symeon Papavassiliou, NTUA, Greece  
Dr. Ivan Stojmenovic, University of Ottawa, Canada

##### Technical Program Co-Chairs:

Dr. My Thai, University of Florida, USA  
Dr. Jianwei Niu, Beihang University, China  
Dr. Vasileios Karyotis, NTUA, Greece

##### Publicity, Local-arrangements Chair:

Dr. Kui Wu, University of Victoria, Canada

#### Important Dates

- Paper submission deadline: December 15, 2013
- Notification of acceptance: February 07, 2014
- Camera-ready due: February 28, 2014

#### Paper Submission

Authors are encouraged to submit full papers describing original, complete research, not currently under review by another conference or journal. Papers should be submitted electronically via the EDAS system in pdf format, not to exceed 6 pages, and should follow the IEEE conference format. For author guidelines please refer to: <http://www.nanmode.ntua.gr/dyson2014> and for paper submission please follow: <https://edas.info/N16157>