Workshop on Resource Allocation in Wireless Networks (RAWNET)

May 9, 2016

CALL FOR PAPERS

Emerging wireless networking technologies are expected to provide very high data rates and quality-of-service, as well as seamless connections in scenarios with ever increasing mobility. In addition, these emerging technologies will open the door for novel applications such as new social or location-based services, as well as new architectures such as node-centric and information-centric networks.

The workshop will focus on resource management in emerging wireless networking technologies and applications. Approaches to resource management across the protocol layers will be considered, ranging from physical layer to application layer issues. Of particular interest are resource allocation mechanisms for wireless network that allow for the efficient allocation of network resources, the dissemination and location of information, and distributed computation. The applications can stem from any wireless scenario, such as multi-cell networks, cognitive radio networks, or ad hoc networks and in existing or novel networking architectures, such as node-centric networking, information-centric networking or delay-tolerant networks.

Original contributions are solicited in, but not limited to, the following topics of interest:

- Data dissemination in large-scale wireless networks
- Cooperation in mobile wireless networks
- Mobile social networks
- Cooperative caching in wireless networks
- Distributed computation in wireless networks
- Distributed scheduling/resource allocation in large-scale wireless networks
- Physical layer/MAC layer cooperation in large-scale wireless networks
- Fairness vs performance trade-offs
- Diversity/multiplexing trade-offs of cooperation protocols
- Effects of partial and incomplete state information in cooperative systems, and robust designs

Important Dates:

- Paper submission: January 26, 2016
- Notification of acceptance: March 1, 2016
- Camera-ready/registration due: March 15, 2016

Organizers:

- Randall Berry, Northwestern University
- Peter Marbach, University of Toronto