

The 2017 International Workshop on Resource Allocation, Cooperation and Competition in Wireless Networks (RAWNET)

Monday, May 15th, 2017
CALL FOR PAPERS

Emerging wireless networking technologies will provide advanced quality of service classes, including very high data rates over millimeter-wave frequencies, low latencies for specific use cases, 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 protocol layers will be considered, ranging from physical layer to application layer issues. Of particular interest are resource allocation mechanisms for wireless networks that allow for the efficient allocation of network resources, the dissemination and exploitation of information, and for distributed computation. The applications can stem from any wireless scenario such as multi-cellular, 5G cloud-RAN, cognitive-radio or ad-hoc networks, and in existing or novel networking architectures, such as node-centric networking, information-centric networking or low-latency networks.

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

- Cooperation in mobile wireless networks
- Spectrum sharing in millimeter-wave frequencies
- Resource tradeoffs in distributed optimization and coordination
- Data dissemination in large-scale wireless networks
- Mobile social networks
- Caching in wireless and mobile networks
- Distributed computation in wireless networks
- Distributed scheduling/resource allocation in large-scale wireless networks
- Physical layer/MAC layer cooperation in millimeter-wave networks
- Diversity/multiplexing trade-offs of cooperation protocols
- Effects of partial and incomplete state information in cooperative systems, and robust designs
- Wireless location-based services and optimization
- Resource allocation in fog/edge/cloud computing for wireless networks
- Resource allocation and optimization in 5G wireless fronthaul and backhaul architectures

Submission Instructions: Submitted papers consist of 6 pages, double column, IEEE format.

Website: http://wiopt.telecom-paristech.fr/workshop_rawnet.html

Important Dates

- *Paper submission: February 3rd, 2017, 23:59 CET*
- *Notification of acceptance: March 1st, 2017*
- *Camera-ready/registration due: March 17th, 2017, 23:59 CET*

Organizers:

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Paolo Giaccone, Politecnico di Torino
Iordanis Koutsopoulos, Athens University of Economics and Business

TPC members

Tansu Alpcan (University of Melbourne)
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