The Workshop on "Wireless for Big Data and Big Data for Wireless"

Rationale

There is a phenomenal burst of research activities in big data, which shows great potential in decision making, optimizing operations, mitigating security threats and capitalizing on new sources of revenues in a variety of fields, such as retail, advertisement, manufacturing, healthcare, and insurance. Data from wireless devices and networks (e.g., smart phones, cellular networks, sensor networks, vehicle networks, etc.) is an important source of big data. Therefore, wireless networks play a critical role in big data generation, delivery, and processing. On the other hand, big data, as an important networking application, will have profound impacts on the design and operation of wireless networks. Particularly, big data analytics can benefit advanced wireless technologies, such as wireless virtualization, software defined networking (SDN), device-to-device (D2D) communications, cloud-based radio access networks (C-RANs), etc. Both wireless and big data are hot research topics in the IEEE society. Many researchers are working on the related topics. To the best of our knowledge, this is the first workshop focusing on the topics of wireless for big data and big data for wireless. Therefore, this workshop will attract a significant number of submissions of good quality.

Scope and topics

The Workshop on "Wireless for Big Data and Big Data for Wireless" provides a forum for discussions of the up-to-date developments in wireless and big data, and brings together industry and academia, engineers and researchers. The workshop invites submissions of the unpublished work on the following topics (but not limited to):

- Wireless network architecture, design, operation, management, algorithms, and analysis for big data
- Wireless resource optimization for big data
- Wireless network QoS and QoE provisioning for big data
- Wireless network virtualization for big data
- Wireless mobile cloud computing for big data
- Wireless software defined networking for big data
- Wireless network security and privacy for big data
- Green wireless communications and networking for big data
- Wireless smart grid networks for big data
- Big data for wireless network architecture, design, operation, management, algorithm, and analysis
- Big data for wireless resource optimization
- Big data for wireless network QoS and QoE
- Big data for wireless network virtualization
- Big data for wireless mobile cloud computing
- Big data for wireless software defined networking
- Big data for wireless network security and privacy
- Big data for green wireless communications and networking
- Big data for wireless smart grid networks

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