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Call for Papers

Track 3: Wireless Communications: MAC and Cross-Layer Design

Track Chairs

- **Danda B. Rawat**, Howard University, USA (www.Rawat.info)
- **Jaime Lloret Mauri**, Polytechnic University of Valencia, Spain

Scope and Motivation:

The *Wireless Communications: MAC and Cross-Layer Design Track* focuses on all topics related to all aspects of cross layer design layer for mobile and wireless networking for both ad-hoc and infrastructure modes. The exponentially increasing wireless subscriptions and data traffic motivates the rapid development of the next-generation wireless networks that meet different requirements such as quality of service/experience, delay, data rate, etc. A cross-layer design paradigm would be needed to meet these requirements and mitigate challenges that these future networks would be facing.

This track aims at providing a forum for sharing ideas among researchers and practitioners working on state-of-the-art solutions to the challenges in Cross-Layer Design for wireless systems. We are seeking papers that describe original and unpublished contributions addressing various aspects in this field.

Main Topics of Interest:

The *Wireless Communications: MAC and Cross-Layer Design Track* seeks original contributions in the following topical areas, plus others that are not explicitly listed but are closely related:

- Mobility architecture and cross layer design
- Security and privacy issues
- Cross layer design for vehicular wireless networks
- Information-theoretical approaches to MAC designs
- Joint MAC and networking layer designs
- Cross layer and MAC for mesh, ad hoc, relay, sensor networks, and embedded systems
- QoS/QoE-enabling MAC
- Time-critical MAC designs
- MAC for cloud radio access networks (Cloud-RANs) Adaptive and Cognitive MACs
- Cross-layer designs involving MAC
- Delay tolerant MAC designs
- Cross layer design for WLAN, WMAN, WWAN, cellular and emerging wireless networks
- Scheduler for cooperative and relay systems
- Dynamic spectrum management
- Wireless network virtualization
- Cognitive radio networks and adaptive wireless networks
- Implementation, testbeds and prototypes
- Machine-to-machine communications
- Cross-layered cyber defense
- Internet of things
- Autonomic networking
- Cross-layer design and optimization
- Mobility, and validation models
- Standardization activities of emerging wireless technologies
- Cyber Physical Systems

Please visit <http://ccnc2018.ieee-ccnc.org/authors> for information on Paper Submission Guidelines and Author Requirements