



FIRST CALL FOR PAPERS

IEEE PIMRC 2014, September 2-5, Capital Hilton, Washington DC, USA

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The annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC) is one of the premier conferences in the wireless research arena and has a long history of bringing together academia, industry and regulatory bodies. Today, it has become one of the IEEE Communication Society's flagship conferences in wireless networking. After a long absence from the US, this important wireless event will be returning to Washington D.C. in 2014. PIMRC 2014 will include technical sessions, tutorials, workshops, and technology and business panels. You are invited to submit papers, and proposals for panels, tutorials, and workshops, in all areas of wireless communications, networks, services, and applications. The instructions for authors will be posted on the conference website. To be published in the IEEE PIMRC Conference Proceedings and to be eligible for publication in IEEE *Xplore*[®], an author of an accepted paper is required to register for the conference at the full (member or non-member) rate and the paper must be presented by an author of that paper at the conference unless the TPC Chair grants permission for a substitute presenter arranged in advance of the event and who is qualified both to present and answer questions. Non-refundable registration fees must be paid prior to uploading the final IEEE formatted, publication-ready version of the paper. For authors with multiple accepted papers, one full registration is valid for up to 3 papers. Accepted and presented papers will be published in the IEEE PIMRC Conference Proceedings and submitted to IEEE *Xplore*[®].

Submission Deadline: April 15, 2014

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Track 1: Fundamentals and PHY

- Advanced modulation schemes
- Antennas
- Beamforming
- Channel capacity estimation
- Channel equalization
- Channel modelling
- Channel simulation
- Cognitive and green radio
- Cooperative communications
- Interference mitigation
- Millimeter Wave Communication
- Multi-antenna signal processing
- PHY aspects of WLAN, WPAN, and WBAN
- PHY performance evaluation
- Physical layer network coding
- Physical layer security
- Power efficient communications
- Propagation & channel modeling
- Signal processing for wireless communications
- Single and multi-user MIMO
- Source and channel coding
- Synchronization techniques
- Ultra-wideband communications
- Vehicular communications

Track 2: MAC and Cross-Layer Design

- Adaptive MACs
- Cognitive MACs
- Cross-layer designs involving MAC
- Delay tolerant MAC designs
- Implementation, testbeds and prototypes
- Information-theoretical approaches to MAC designs
- Joint access and backhaul scheduler designs
- Joint MAC and networking layer designs
- MAC for low power embedded networks
- MAC for mobile and vehicular ad hoc networks
- QoS/QoE-enabling MAC in 4G and future mobile networks
- QoS and scheduling
- Radio resource management, allocation, and scheduling
- Reconfigurable MACs
- Scheduler for cellular macro-, pico- and femto systems
- Scheduler for cooperative systems
- Scheduler for relay systems
- Security issues in MAC designs
- Time-critical MAC designs

Track 3: Mobile and Wireless Networks

- Ad hoc networks
- Body area networks
- Cognitive radio networks
- Congestion, load and admission control
- Cooperative communications
- Delay tolerant networks
- Dynamic spectrum management
- Future wireless Internet
- Green wireless networks
- Local dependent networks
- Location management
- LTE/LTE-A
- Mobile and wireless IP
- Mobile computing
- Multi-hop networks
- Network architectures
- Satellite communications
- Self-organizing networks
- Smart cities
- Smart grids
- Transport layer
- Vehicular networks
- Wireless multicasting, broadcasting, and geocasting
- Wireless sensor networks

Track 4: Services, Applications and Business

- Audio and video broadcast applications
- Authentication, authorization and accounting
- Positioning, localization, and tracking techniques
- Context and location-awareness in pervasive systems
- Cyber-physical system / Internet of Things
- Emerging wireless/mobile applications
- In-/intra-car communications
- Mobile multimedia services
- Link data and networked knowledge
- Next generation digital home networks
- P2P services for multimedia
- Personalization, profiles and profiling
- Secure network and service access
- Self-adaptation on the service layer
- Semantic technologies
- Service oriented architectures and cloud computing
- Service portability
- User interfaces, user-machine interactions
- Wireless emergency and security systems
- Wireless robotics