IEEE RFID 2011

5th Annual IEEE International Conference on RFID

Orange County Convention Center
Orlando, Florida (USA)
April 12-14, 2011

www.ieee-rfid.org

IEEE

CRFID
IEEE Technical Committee on RFID

PRELIMINARY CALL FOR PAPERS

Radio frequency identification (RFID) is an exciting, rapidly growing, multidisciplinary field with emerging technologies and applications. The 2011 IEEE International Conference on RFID is the premier conference for exchanging all technical RFID-related research. The conference attendance boasts an outstanding mix of practitioners and researchers from industry and academia, from around the world, and spanning numerous disciplines. IEEE RFID 2011 is an opportunity to share timely research results in all areas of RFID technologies and their applications.

The 2011 IEEE International Conference on RFID is seeking original, high-impact research papers on important RFID-related topics. Papers will be selected based on clarity, originality, importance of the problem, technical merit, and the potential impact of the results. Submitted papers must be anonymous and may be no more than 8 pages in length. All papers will be rigorously reviewed through a double-blind review process by multiple active researchers in the field. All submissions must describe original work not previously published or currently under review for publication in another conference or journal.

TOPICS:

- **Antennas & Propagation:** Antenna theory and designs for RFID tags and readers at all RF frequencies, flexible and low cost substrate antennas, and channel measurements/modeling
- **Applications:** Research papers on the introduction and operational experience of RFID applications; applications papers should have a strong technical focus and address a research issue
- **Circuits, Devices & Sensors:** Low-power RFID circuit designs for tags at all frequencies, RFID with integrated sensors, energy harvesting and batteries, nanostructures, and non-silicon, chipless, and printed RFID tags
- **Communication Protocols:** Coding, modulation, anti-collision, and medium access schemes for either passive, semi-passive, or active RFID systems and that operate efficiently in mixed passive, semi-passive, and active environments
- **Deployment Issues & Concerns:** EMC compatibility, tag recycling, issues in patient safety
- **Interrogators:** Architecture, algorithms, detection, sensitivity, read rate optimizations, multi-interrogator coordination and interference
- **Policy & Regulatory Issues:** Spectral management, privacy issues, co-existence of RFID systems, social implications of RFID technology
- **RF-Based Localization:** Novel system approaches, technologies, and algorithms, beam steering, and distance measurement
- **RFID System Architecture:** RFID middleware, large-scale discovery services, RFID and “Green Electronics”
- **Security & Privacy:** Cryptographic protocols and privacy-enhancing techniques, mechanisms, and protocols
- **System Tools:** Tools for the design, deployment, and evaluation of RFID systems; testbed design, setup, and operation for single tag and multiple tag evaluation
- **Others:** For those topics which do not fit within one of the above categories.

For more information, logon to: www.ieee-rfid.org

CRFID MEMBER SOCIETIES

APS · Consumer Electronics Society · MTT-S · EMB · SSCS · Systems, Man, & Cybernetics Society · IEEE COMMUNICATIONS SOCIETY · VTS Connecting the Mobile World