



First Call for Papers

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The IEEE Radio and Wireless Symposium (RWS 2006) continues the evolution of the successful Radio and Wireless Conference (RAWCON), most recently held in Atlanta, GA, September 2004. This conference maintains an emphasis on interdisciplinary aspects of wireless and RF systems and technology with a focus on how the elements fit together to shape the latest developments in communications technology and enable the convergence of applications. In addition to oral presentations and posters, RWS includes workshops, panels, and a major exhibition. The inaugural RWS 2006 will be held in San Diego, CA, 17-19 January 2006 as part of a week-long major technical event – *MTT Wireless*. Also participating in *MTT Wireless* are the *Topical Meeting on Silicon Monolithic Integrated Circuits in RF Systems (SiRF)* and the *IEEE Topical Workshop on Power Amplifiers for Wireless Communications (PA Workshop)*.

RWS 2006 sessions will highlight applications including (but not limited to):

- 3G/4G Wireless Communication including Emergency/Location Services
- 802.11/HiperLAN2 Wireless LAN Systems
- Software Defined Radio/Cognitive Radio and other Emerging Technologies
- 802.16/LMDS Broadband Fixed Wireless and Last-Mile Access Techniques
- Bluetooth/Personal Area Networks
- Wireless Sensors and Ad Hoc Networks
- 802.15/Ultrawideband (UWB) Communication
- Low-Power/Low Noise RF/Analog IC and System-On-Chip Solutions

Sessions will cover systems and enabling technologies in the areas of:

- System Architecture, Integration, and Convergence Issues
- Digital/Analog Adaptive/Collaborative Signal Processing
- System Level Design, Modeling, and Simulation
- MIMO/Space-Time Processing, Relaying Technology, and Smart Antennas
- Signal Generation/Power Amplification, Linearization, and Active Components
- Front-End Antenna/Subsystems and Passive Components
- Cross-Layer Design

Workshop Proposals

Proposals for workshop topics are solicited, and must be received by **6 June 2005**. Details on the process and requirements can be found at www.radiowireless.org.

Paper Submission Instructions

Authors are asked to submit a summary (not more than 4 pages including figures) electronically using the www.radiowireless.org web page by **7 September 2005; this date is firm**, no extensions can be granted. Please indicate your preference for oral or poster presentation format. For electronic submissions the preferred file format is pdf; for additional options go to www.radiowireless.org.

Submissions will be evaluated for originality, significance of the work, technical soundness, and interest to a wide audience. Authors will be notified of acceptance by 12 October 2005. Final accepted manuscripts (4 pages in length) must be received by **9 November 2005** to be included in the published Proceedings.

Major Exhibition

RWS 2006 is part of the major new *MTT Wireless* event which also includes a major commercial exhibition of technologies and services support radio and wireless development. Go to www.horizonhouse.com for details.