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Call for Papers

Contributions describing original research, surveys, and applications these and other areas are solicited:

1. Systems and Services

- Mobile satellite communication
- WLANs
- Wireless Sensors and Ad Hoc Networks
- MIMO Technologies
- UWB and Impulse Radio
- 4th-Generation Mobile Wireless Systems
- Space-Time Channel Characterization and Modeling
- RFID

2. Microwave Electronics

- Passive and Active Circuits
- Power Amplifiers, Linearization, and Active Components
- MMICs and Microwave Circuits
- Microwave and Millimetre-Wave ICs
- Millimetre-Wave and Sub-Millimetre-Wave Components,
- Circuits and Systems
- Waveguide Structures

3. Antennas

- Microstrip and Printed Antennas
- Active and Integrated Antennas
- Array Antennas, Phased Arrays, and Feeding Circuits
- Mobile and Base Station Antennas
- Adaptive and Smart Antennas
- Ultra-Wideband, Broadband, and Multi-band Antennas
- Reconfigurable Antennas and Arrays
- Millimeter Wave and Sub-Millimeter Wave Antennas
- MEMS/Nanotechnology for antennas

4. Propagation

- Mobile and Indoor Propagation
- Millimeter- and Optical-Wave Propagation
- Earth-Space and Terrestrial Propagation
- Ionospheric Propagation
- Propagation and channel characterization
- Diversity Techniques and Fading Countermeasures
- Signal Separation and Interference Rejection
- Random Media and Rough Surfaces

5. Electromagnetics

- Electromagnetic Theory
- Metamaterials
- Complex Media and Artificial Media
- Computational Electromagnetics
- High-Frequency Techniques
- Time-Domain Techniques
- Inverse Problems
- Radar and EM Imaging
- Scattering, Diffraction, and RCS
- Periodic and Band-Gap Structures
- Nonlinear Electromagnetics
- Optimization Methods in EM Design

6. Signal Processing, Coding, or Waveforms

- Error Control Coding
- Interference Excision/Suppression
- Bandwidth-Efficient Modulation
- Orthogonal FDM
- Space-Time Codes
- Analog-to-Digital Conversion
- Signal Processing for Communications
- Signal Processing Tools for Ad Hoc, Multi-Hop, and Sensor Networks

7. EMC and Related Topics

- EMC/EMI Simulations and Measurements
- Biological Effects and Medical Applications
- High-Power Microwave Applications
- Advanced Materials for EM Applications
- Satellite Systems
- Ubiquitous Network Systems
- Radio Technologies for Intelligent Transport Systems
- EM Simulators, Visualization, and Education

8. Micro-Electronic Devices, Circuits, and Systems for Wireless Applications

- New Materials
- Design, Simulation, and Analysis

- Active and Passive Devices
- RF MEMS
- Circuits and Subcircuits for RF/IF/baseband
- TV/Radio/Mobile/Satellite Chips
- Advanced Process, Packaging, and Integration Technologies
- 3D RF Technology
- Nanoelectronics

9. Remote Sensing

- Remote Sensing
- SAR Polarimetry and Interferometry
- Subsurface Sensing