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# 2026

## IEEE COLOMBIAN CONFERENCE ON COMMUNICATIONS AND COMPUTING

September 2 – 4, 2026

Bucaramanga, Colombia



PAPER SUBMISSION DEADLINE (FIRM)

June 27, 2026

### CONFERENCE TECHNICAL TRACKS

#### Wireless Communications and Networking

- 5G/6G and beyond, cellular systems
- MIMO, multi-user MIMO, massive MIMO
- Advanced modulation, coding, antenna systems, space-time processing
- Cross-layer design, resource allocation, interference management
- Wireless body-area networks, femtocells, traffic offloading
- Congestion/flow control, spectrum management

#### Smart Environments

- IoT/IIoT architectures, LPWAN, edge/fog/cloud integration
- Future Internet experimentation for IoT
- M2M and cellular IoT protocols
- SDN/NFV for IoT
- Personal Area Networks, sensing/actuation technologies
- Smart homes, healthcare, education, agriculture, environment
- Smart cities for special needs
- QoS/QoE in smart-city services
- Industry 4.0, wireless industrial networks

#### Cybersecurity

- Security and safety systems
- Privacy, anonymity, authorization, access control
- Cryptography and secure communications
- Vulnerability analysis, intrusion detection/prevention
- Cloud and distributed application security
- Mobile and wireless network security
- OS/app security, secure boot, firmware trust, forensics
- VPNs, group security, trust models
- Malware, exploit analysis, threat intelligence

#### Applied Electromagnetics for Wireless and Communication Systems

- Antenna design and integration for wireless, IoT, and 5G/6G communication systems
- Propagation, channel modeling, and measurements in indoor, urban, and complex environments
- Electromagnetic compatibility, interference, and coexistence in wireless and communication systems
- Measurement techniques, test setups, and electromagnetic environment characterization
- Computational electromagnetics and AI/ML methods applied to antennas, propagation, and EMC
- Electromagnetic resilience and security of communication systems, including aerospace, transportation, and critical platforms

#### AI, Generative AI, Big Data & Machine Learning for Networking

- AI/GAI/ML for 5G/B5G/6G, slicing, RAN optimization
- AI/ML for SDN/NFV, programmable data planes
- Neural networks, deep learning for resource management
- LLMs for smart cities, traffic analytics, fault diagnosis
- Big data architectures for cloud, IoT, CPS, smart grids
- Data-driven networking and automation
- Federated learning for virtualized and distributed networks
- Predictive and real-time analytics
- ML over-the-air training
- Operational intelligence

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