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Communications & Networks Connect

A Journal Specialized in
Communications and Networking

Editor-in-Chief
Hany Elgala, PhD

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Subject Categories

Artificial Intelligence | Computer Networks and Communication | Optics

Target Audience

This journal is designed for researchers, academics, policymakers, and industry professionals engaged in the dynamic fields of communication and optics.

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Message from EiC

Communications & Networks Connect is a multidisciplinary journal that focuses on advancements in optical communications. The journal encourages submissions on topics related to efficient, flexible, secure, and resilient transmissions. The journal covers end-to-end systems, from theory to practice, and includes the categories of Free Space Optical Communications, Machine Learning (ML) in Optical Communications, Devices and Circuits, and Lab and Field Demonstration.

Aims and Scope

Communications & Networks Connect is a multidisciplinary journal dedicated to advancing communication and networks across the electromagnetic spectrum, including radio, mmWave, THz, and optical technologies. This journal aims to promote innovative research and foster collaboration across diverse disciplines to enhance communication technologies and networks. It welcomes research on both wireless and wired systems, such as free-space and fiber-based optical systems. The journal invites submissions on topics related to efficient, flexible, secure, and resilient communications and networks, encompassing hybrid/heterogeneous radio, mmWave, THz, and optical deployments. Embracing end-to-end systems, from theory to practical applications.

Key Topics

- Artificial intelligence (AI) and machine learning (ML) in communications and networks
- Advanced modulation schemes and coding
- Signal processing for communication
- Joint communication and sensing
- 5G/6G and NextG networks
- Internet-of-Things (IoT) and sensor networks
- Wireless communications networks (radio, mmWave, terahertz, and optical)
- Passive optical networks, multi-fiber networks, and elastic networks
- Satellite and quantum networks
- High-Altitude Platform Systems (HAPS) and Unmanned Aerial Vehicle (UAV) communications and networking
- Radio, mmWave, THz, and optical devices and circuits
- Design and demonstration of systems and testbeds for emerging technologies
- Data center networks and their connectivity solution
- Non-conventional networks (nano, molecular, underwater, underground, etc.)
- Security and resiliency for communication systems
- Cross-disciplinary applications: connecting the unconnected, smart cities, autonomous vehicles, and healthcare communications
- Energy-efficient communication techniques
- Information theory for next-generation communication systems

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