



25-27 November 2026
Melbourne, Australia



CALL FOR PAPERS

Over the years, IEEE ITNAC has established itself as a leading international conference in information technology, networking, and telecommunications, attracting high-quality contributions from researchers from around the world. Under the theme “Intelligent Networks and Applications for a Digitally Connected World,” ITNAC 2026 invites original research that addresses emerging challenges and advances the future of intelligent and connected digital systems. Research contributions are welcomed across a broad range of topics, including but not limited to:

Important dates

- **Paper submission: 1 August 2026**
- **Notification of acceptance: 1 October 2026**
- **Conference dates: 25-27 November 2026**

Key Highlights

- **10 student grants**
- **Selected papers will be invited for publication in high-quality journal special issues**
- **Featuring keynotes & tutorials by world-renowned researchers and industry leaders**
- **Best paper awards**

Next-Generation Wireless Networks

5G and Beyond Wireless Networks
6G Communication Systems and Architectures
Green and Sustainable Wireless Communications
Integrated Sensing and Communication (ISAC)
Internet of Things (IoT) and Machine-to-Machine Communications
Massive MIMO and Beamforming Technologies
Network Slicing and Virtualized Wireless Networks
Reconfigurable Intelligent Surfaces (RIS)
Satellite, UAV, and Non-Terrestrial Networks (NTN)
Terahertz and Millimeter-Wave Communications
Ultra-Reliable Low-Latency Communications (URLLC)

Next-Generation Optical Networks

Energy-efficient and green optical networks
Large capacity optical transmission (WDM and OTDM)
OFDM and advanced modulation formats in photonics
Optical Ethernet, EPON/GPON, and 100Gb/s+ Ethernet
Optical Network on Chips (ONoCs)
Optical switching and routing
Optical-wireless access networks and Radio-over-Fibre (RoF)
Visible Light Communication (VLC) / Li-Fi
WDM Access Networks and WDM-PON
Wired/wireless and telecom/broadcast convergence (IPTV)

Resilient Network Security

AI and Machine Learning for Cyber Security
Autonomous and Self-Healing Network Security
Blockchain-Based Trust and Identity Management
Cyber Resilience for Critical Digital Infrastructure
Cyber Threat Intelligence and Digital Forensics
Federated security and homomorphic encryption
IoT and Smart Device Security
Key distribution and management
Network security policy, theory, and administrative tools
Post Quantum Cryptography (PQC)
Quantum Key Distribution (QKD)
Secure Cloud and Edge Computing
Security in 5G/6G and Next Generation Networks
Zero Trust Networks (ZTN)

Future Networking and Applications

Content Delivery Networking (CDN)
Datacentre networks and cloud computing
High-performance network virtualisation
Intelligent Networks
IoT and cyber-physical systems
Network digital twins
Network Service Orchestration (NSO)
Networking standards, policies, and regulations
Peer-to-peer networks and overlays
QoS/QoE provisioning and resource management
Quantum internet
Smart Cities and Smart Grids
Software Defined networking (SDN)
Sustainable networking

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