ITNAC
INTERNATIONAL TELECOMMUNICATION NETWORKS AND APPLICATIONS CONFERENCE

IEEE

The 32nd International Telecommunication Networks and Application Conference
Nov 30–Dec 2, 2022 Wellington, New Zealand

AIMS & SCOPE

With the increasing number of emerging robust networks, the challenges to design new networking protocols, techniques, and applications are never ending. With the imminent deployment of 5G and 6G on the horizon, the demand for better service and quality has never been greater. ITNAC is a leading forum for researchers and engineers to present and discuss topics related to advanced telecommunication network technologies, services and applications.

ITNAC 2022 seeks to address and capture highly innovative and state-of-the-art research from academia, communications industry and standardisation bodies that covers applications for and analysis of distributed, mobile, cognitive and cloud computing, computer and data communications, local and metropolitan networks, optical, wired and wireless telecommunication networks and applications. Contributions are welcome on all advanced research and particularly (but not limited to) the following topics:

Mobile & Wireless Networks

- 5G/6G networks
- Internet of Things
- Multi-access Edge Computing, Fog Computing, MIST
- Modelling and Simulation
- Wireless access and routing protocols
- Cross-layer design optimisation
- Green, low power, energy efficient and sustainable networking
- Nature and bio-inspired approaches to networking
- Network-based mobile positioning and tracking systems
- Cognitive and cooperative principles for networking
- Mobile social and ambient networks
- Delay tolerant networks
- Mobile and fixed wireless broadband access networks
- Wireless sensor networks
- Vehicular Ad-hoc networks
- Cognitive networks
- Wireless mesh networks

Internet Technologies and Applications

- Network Modelling and Simulation
- Software defined networking
- Smart Cities and Smart Grids
- Content-centric networks
- Traffic engineering, congestion and admission control
- Datacenter networks and Cloud Computing
- Peer-to-peer networks and overlays
- Novel network-enabled applications and services
- Future Internet routing schemes or transport concepts
- IPv6 and its derivatives
- High performance network virtualisation
- Networking standards and regulations
- QoS/QoE provisioning and resource management
- Novel network-enabled applications and services

Optical Networking and Applications

- Modelling and Simulation
- Optical switching and routing
- Optical Network on Chips
- Visible light communication
- Optical Ethernet, EPON/GPON, 100Gb/s Ethernet
- WDM Access Networks, WDM-PON
- Wired/wireless convergence, Telecom/broadcast convergence, IPTV
- Hybrid optical-wireless access networks, Radio-over-fiber
- Large capacity optical transmission, WDM, OTDM
- OFDM and advanced modulation formats in photonics
- Energy efficient optical networks

Network Management, Privacy and Security

- Next generation network regulation
- Broadband network management
- Intrusion detection and prevention
- Key distribution and management
- Large-scale attacks and defense
- Security and privacy in wireless networks
- Network security policy, theory and tools
- Secure Mobile Agents and Mobile Code
- Trusted computing and management
- World Wide Web security
- Network resiliency and network security
- Cyber security

SUBMISSION INSTRUCTIONS

Submitted manuscripts should be written in English conforming to IEEE conference proceedings format (template available at **https://www.ieee.org/conferences/publishing/templates.html**).
We invite the following two types of submissions:
- **Full Papers** (6 pages complementary, and up to 8 pages with over length charge)
- **Short Papers** (3 pages complementary and up to 4 pages with over length charge).

All paper submissions must represent original and unpublished work. Papers must be submitted electronically in PDF format through **EDAS**

PUBLICATIONS

Accepted papers from this conference will be published in the proceedings (indexed by EI Compendex). Distinguished papers, after further revisions, will be considered for possible publication in SCI & EI indexed special issues of prestigious international journals. By submitting a paper to the conference, authors assure that if the paper is accepted, at least one author will attend the conference and present the paper.

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- **https://www.itnac.org.au**

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IMPORTANT DATES

15 September 2022	2 October 2022	15 October 2022	1 November 2022	Nov 30–Dec 2, 2022
Paper submission	**Acceptance Notification**	**Camera-ready due**	**Registration due**	**Conference**