

CALL FOR PAPERS: ITNAC 2022

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The 32nd International Telecommunication Networks and Application Conference (ITNAC 2022)  
November 23-25, 2021 in Wellington, New Zealand  
<http://www.itnac.org.au>  
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Indexed by Scopus and Ei COMPENDEX

Paper Submission opens in January 2022  
Full paper submission deadline: September 1, 2022

\*SCOPE\*

With the increasing focus on modelling and simulation in the fields of cyber security, big data, distributed computing, mobile computing, cognitive computing, cloud computing, computing tools, applications, simulation tools, system performance and data and computer communications the demand for high quality research outcomes has never been greater. ITNAC has been the forum for researchers and engineers to present and discuss topics related to advanced computing and data communication network technologies, services and applications.

ITNAC 2022 is a conference that aims to advance both the state-of-the-art and the state-of-the-practice of computing systems integration with current and emerging data communications and computing technologies and includes within its scope topics on the software and algorithmic aspects of current, emerging, and at times novel computing paradigms fostered by such open communication networks and computer system communications methods and infrastructure with collaborative overlap

Novel contributions are presented in the form of keynote speeches by international experts, peer-reviewed technical papers, and posters. ITNAC 2022 seeks to address and capture highly innovative and state-of-the-art research from academia, industry and standardization bodies.

ITNAC 2022 is an international conference and forum for the presentation of research outcomes covering timely and relevant aspects concerning modelling and simulation 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) on 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

#### 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

#### 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

#### \*SUBMISSION INSTRUCTIONS\*

Submitted manuscripts should be written in English conforming to IEEE conference proceedings format (template available at [http://www.ieee.org/conferences\\_events/conferences/publishing/templates.html](http://www.ieee.org/conferences_events/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 5 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, Google Scholar). 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.

**\*IMPORTANT DATES\***

Paper submission: 1 September, 2022  
Acceptance Notification: 2 October, 2022  
Camera-ready due: 15 October, 2022  
Registration due: 1 November, 2022  
Conference: 23-25 November, 2022

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