



## CALL FOR PAPERS

International Conference on Intelligent Computing and Next Generation Networks

Hangzhou, China | Dec. 16-17, 2022

ICNGN2022 is a conference which aims to present the latest research and results of scientists (professors, doctoral students, and post-doc scientists) related to intelligent computing and next generation networks. We are willing to provide an equal platform for scholars to communicate with each other and promote the progress of technology and scientific research in the field.

### Paper Submission, Publications and Indexation

Submission will be rigorously reviewed, and should clearly make the case for a documented improvement over the existing state-of-the-arts. Submitted paper will be peer reviewed by conference committees, and accepted papers will be included into ICNGN2022 Conference Proceedings and submitted for indexing to EI-Compendex, and Scopus.

### Topics of interest include, but are not limited to:

#### T1: Cognitive radio network

- Artificial Intelligence-enabled communications
- Energy-efficient green communications
- Cognitive radio network
- Network Functions Virtualization (NFV)
- Mobile Cloud Computing (MCC) and Mobile Edge Computing (MEC)
- Next-generation Internet applications and service
- Next-generation networking protocols
- Next-generation network management and control
- Open communities, open API, open source Operational and research issues with IPv6
- Overlay and peer-to-peer (P2P) networking
- Quality of Service (QoS) and Quality of Experience (QoE) in next-generation networks
- Resource orchestration in next-generation networks
- Future network platforms, software and services
- Network theory and network science

#### T2: Computing methodologies for machine intelligence

- New computing theories, architectures, and models
- New computing devices, hardware, and software
- New computing paradigms, such as quantum computing, photonic computing, bio-computing, bio-inspired computing, and brain-like computing

### Important Dates

Submission Paper: Nov. 15, 2022

Notification: Nov. 24, 2022

Registration Deadline: Nov. 30, 2022

Conference Date: Dec. 16-17, 2022

### Keynote



**Prof. Yanfeng Jiang**  
Jiangnan University, China



**Assoc. Prof. Rui Han**  
Beijing Institute of Technology, China



**Prof. Xiaodong Liu**  
Edinburgh Napier University, UK



**Prof. Ljiljana Trajkovic**  
Simon Fraser University, Canada



**Assoc. Prof. MARCIN PAPRZYCKI**  
Systems Research Institute, Polish Academy of Sciences



**Prof. Sanjay Ranka**  
University of Florida, USA

New computing systems, such as intelligent supercomputing, heterogeneous computing clusters, domain-specific computing, and wide-area collaborative computing  
Computation-driven machine intelligence, cognitive computing, collaborative human-computer computing, and swarm intelligence

#### T3: Computational technology achieved through AI-based methodologies

- Collaboration and reconfiguration of computational hardware and software
- Intelligent understanding and decomposition of computing tasks
- Intelligent scheduling and adaptation of computing resources
- Trusted computing and privacy computing
- Ubiquitous computing and transparent

#### T4: Scientific findings achieved through machine intelligence, data, and computing methodologies

- Intelligent computational materials science
- Intelligent computational biology
- Intelligent computational astronomy
- Intelligent computational pharmacy
- Intelligent computational social science

### Submission Links

Method1: <https://icngn.org/openconf/openconf.php>

Method2: [cfp@icngn.org](mailto:cfp@icngn.org)