



# CALL FOR PAPERS

August 17-20, 2023  
Xi'an, Shaanxi, China



## 2023 IEEE 11th International Conference on Information, Communication and Networks

# Track 2

The 2023 IEEE 11th International Conference on Information, Communication and Networks (ICICN) is set to take place in Xi'an, Shaanxi, China during August 17-20, 2023.



All submissions will be peer reviewed. Accepted, registered and presented papers will be published in the **ICICN 2023 IEEE conference Proceedings**, included in IEEE Xplore and indexed by **El Compendex, SCOPUS**, etc.

### Monitoring and Inspection System based on Internet of Things (IOT)

Submission Deadline: June 10, 2023

#### Brief Introduction

With the rapid development of the 5th Generation (5G) mobile networks, intelligent devices carrying novel sensors related to internet of things (IOT), e.g. wearable devices, intelligent vehicles, smart cities and structural health monitoring (SHM) electronics, are merging the digital and physical world and making a great impact to our daily life. At the same time, IOT-based monitoring and inspection systems are facing great challenges including novel sensing mechanism, multifunctional electronic devices, diverse detection technologies, different operating systems, various programming languages and urgent information security issues. Thanks to the affordable, eco-friendly, interconnected, performance-optimizable and intelligent concept, it is possible to promote the application of IOT-based monitoring and inspection systems in various potential scenarios.

This Track on Monitoring and Inspection System based on Internet of Things (IOT) focuses on particular potential scenarios of application, including intelligent hardware device, energy harvesting methodology, novel sensing mechanism, access technology, information security, and integrated monitoring and detection system embracing hardware and software, etc.

**Topics** Interested topics include (but not limited to):

- Nano / micro devices and related chip integration technologies
- Energy harvesting device and application system
- AI enabled sensors and instruments
- Structural health monitoring and imaging system
- Intelligent structures and materials based on novel sensing system
- Integrated monitoring and detection system involving access technology
- Communication and information security technology
- Advanced signal and data processing for IOT-based monitoring and inspection systems

#### Track Chairs and Co-chairs:

**Zenghua Liu**, Beijing University of Technology, China  
**Xiaokang Yin**, China University of Petroleum (East China), China

#### Track TPC Members

**Hongye Liu**, University of Shanghai for Science and Technology, China  
**Qiufeng Li**, Nanchang Hangkong University, China  
**Jun Zhang**, Guangdong University of Technology, China

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