# 25 & EEE

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Shenyang, China

🗒 October 16-18, 2025

The Chinese University of Hong Kong, China

Harbin Institute of Technology, China

Northeastern University, China

# 2025 IEEE 25<sup>th</sup> International Conference on **COMMUNICATION TECHNOLOGY**

**Frack Chairs** 

Chuan Huang

Min Jia

Xinyue Pei

### **Track 1. Communication and Information Theory**

The communication and Information Theory symposium will focus on the fundamentals of communication systems, with emphasis on wireless communications. The symposium welcomes original and innovative research work in these general areas, with a strong focus on topics related to the physical layer (PHY), medium access control (MAc) layer, cross-layer, and PHY-related network analysis and design. In particular, high quality papers reporting on applications and validation of communication and information theory from both industry and academia are encouraged.

## Topics

- Backscatter communications
- Cache-aided and edge-aided communication
- > Channel estimation and synchronization
- Coding theory
- Communication theory aspects of distributed, cloud and edge computing
- Communication theory aspects of networking and cross-layer design
- Cooperative communications
- Detection and estimation theory
- > Device-to-device and machine-type communications
- > Diversity and fading countermeasures
- Edge AI and machine learning in communication systems
- Energy efficient and green PHY layer design
- Information theory aspects of wireless communications
- Intelligent radio
- Integrated communication and sensing theory
- Interference management, cancellation, alignment and avoidance
- > Iterative techniques, detection and decoding
- Millimeter wave and terahertz communications
- Molecular communications
- Multiple access, radio resource management and scheduling
- Multiple-input multiple-output (MIMO) systems and massive MIMO
- Network and multiuser information theory
- > Novel waveforms and modulation schemes
- Non-terrestrial networks
- Optical communications
- Orthogonal frequency division multiplexing (OFDM) and multi-carrier systems
- Physical layer security and privacy

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#### CONTACT



(2) Ms. Mia Xue icct\_contact@16<u>3.com</u> +86-19008028167

Wei Xu Southeast University, China

Submission Instruction

Submission Link: https://easychair.org/conferences/?conf=icct2025 and select Track 1 Template Paper (Word):

https://www.ieee-icct.org/IEEEtemplate-word.doc Template Paper (LaTex):

https://www.ieee-icct.org/ieee-conference-latex-template.zip

#### **Important Dates**

Paper Submission Deadline: Notification of Acceptance: June 25, 2025

May 25, 2025