

2024 IEEE 24th International Conference on Communication Technology

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

01. Backscatter communications
02. Cache-aided and edge-aided communication
03. Channel estimation and synchronization
04. Coding theory
05. Communication theory aspects of distributed, cloud and edge computing
06. Communication theory aspects of networking and cross-layer design
07. Cooperative communications
08. Detection and estimation theory
09. Device-to-device and machine-type communications
10. Diversity and fading countermeasures
11. Edge AI and machine learning in communication systems
12. Energy efficient and green PHY layer design
13. Information theory aspects of wireless communications
14. Intelligent radio
15. Integrated Communication and Sensing theory
16. Interference management, cancellation, alignment, and avoidance
17. Iterative techniques, detection, and decoding
18. Millimeter wave and terahertz communications
19. Molecular communications
20. Multiple access, radio resource management, and scheduling
21. Multiple-input multiple-output (MIMO) systems and massive MIMO
22. Network and multiuser information theory
23. Novel waveforms and modulation schemes
24. Non-terrestrial networks
25. Optical communications
26. Orthogonal frequency division multiplexing (OFDM) and multi-carrier systems
27. Physical layer security and privacy
28. Semantic communications and goal-oriented communications
29. Simultaneous wireless information and power transfer
30. Source coding and data compression
31. Ultra-reliable and low-latency communications
32. Ultra-wideband communication systems
33. Unmanned aerial vehicles (UAV) communications
34. Wireless communications powered by energy harvesting
35. Wireless communications through reconfigurable intelligent surfaces

Track Chairs

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Paper Submission Deadline

July 10th, 2024

Notification of Acceptance

August 5th, 2024

Submission Instruction

Submission Link <https://easychair.org/conferences/?conf=icct2024> and select Track 1

Template Paper (Word): <https://icct2024.com/IEEEtemplate-word.doc>

Template Paper (LaTeX): <https://icct2024.com/ieee-conference-latex-template.zip>

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