2027 8th International Conference on TELECOMMUNICATIONS AND COMMUNICATION ENGINEERING

www.ictce.org

8th ICTCE 2027

July 30 - August 1, 2027 | Chengdu, China



2027 8th International Conference on Telecommunications and Communication Engineering (ICTCE) will be held in Chengdu, China during July 30 - August 1, 2027. ICTCE 2027 is sponsored by University of Electronic Science and Technology of China, China (UESTC), and hosted by the School of Information and Communication Engineering, UESTC.

PUBLICATION SUPPORT

All papers will be strictly reviewed by reviewers. All accepted papers will be included in the conference proceedings.

IMPORTANT DATES

Full Paper Submission ---------- March 5, 2027
Notification of Acceptance ---------- April 5, 2027
Registration & Camera-ready ---------- April 20, 2027

Call for Special Sessions

The Organizing Committee invites proposals for Special Sessions
Special sessions complement the regular technical program by highlighting new and emerging research topics or innovative applications of established approaches. The topic of a special session proposal should be timely and compelling.
Deadline: March 5, 2027
(Please send your application to: ictce_conf@163.com)

Conference Committee

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Lei Zhang, University of Glasgow, UK

GENERAL PROGRAM

- ***Day 1, July 30, 2027***
  Pre-test; Onsite Sign-in & Registration & Committee Meeting
- ***Day 2, July 31, 2027***
  Opening Ceremony; Keynote & Invited Speeches; Parallel Sessions
- ***Day 3, August 1, 2027***
  Parallel Sessions

SUBMISSION INSTRUCTION

1.Full paper: Presentation and Publication
2.Abstract: Presentation only
Submission System: https://www.zmeeting.org/submission/ictce2027 (.pdf only)
Conference Proceeding Template (at least 4 full pages):
https://www.ictce.org/download/conference-template-letter.docx (word)
https://www.ictce.org/download/conference-latex-template.zip (latex)
Paper must be written in English.

TOPICS

Track 1: AI-Empowered Communications and Network Intelligence

Telecom Foundation Models and Large Language Models for Communications
AI-Native Air Interface Design
Deep Learning for Physical Layer Communications
Intelligent Resource Allocation and Network Optimization

Track 2: Integrated Sensing, Communication, Computing and Intelligence

ISAC Waveform and Signal Design
Resource Management and Interference Coordination for ISAC
Network Architectures Integrating Sensing, Communication and Computing
Computing Power Networks and Computing-Network Convergence

Track 3: Agent Communication and Human-Machine Collaboration

Agent-to-Agent Communication Protocols and Standards (A2A, MCP, etc.)
Multi-Agent Coordination, Negotiation and Consensus
Task-Oriented Communication for Agents
LLM-Agent-Driven Network Orchestration and Automation

Track 4: Next-Generation Networks and 6G Key Technologies

6G Vision, Architecture and Standardization Progress
Millimeter-Wave and Terahertz Communications
Ultra-Massive MIMO and Novel Antenna Technologies
Reconfigurable Intelligent Surfaces (RIS)

Track 5: Internet of Things and Ubiquitous Connectivity

Massive Machine-Type Communications (mMTC)
Low-Power Wide-Area Networks (LPWAN)
Passive IoT and Ambient Backscatter Communications
Industrial IoT and Smart Manufacturing

Track 6: Cyberspace Security and Trustworthy Communications

Physical-Layer Security and Secure Communications
Cyber-Physical System (CPS) Security
5G/6G Network Security Architectures
Blockchain and Distributed Trust Mechanisms

CONFERENCE VENUE

School of Information and Communication Engineering
University of Electronic Science and Technology of China (UESTC)
Scientific Research Building Block B, Qingshuihe Campus
Add: No. 2006, Xiyuan Avenue, High-Tech Zone (West), Chengdu, Sichuan 611731, China



Contact

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信息与通信工程学院 School of Information and Communication Engineering

2027年第八届
电信和通信工程国际会议

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2027年第八届电信和通信工程国际会议将于2027年7月30日至8月1日在中国成都召开。本次会议由电子科技大学（UESTC）主办，信息与通信工程学院承办。

ICTCE 聚焦电信与通信工程领域的前沿研究，重点关注无线与光技术的深度融合。会议的前沿议题现已拓展至以下尖端方向：通信感知一体化（ISAC）、AI原生通信与语义通信、智能体导向通信（AoI）、AI驱动的无线网络（涵盖基于大语言模型及生成式AI赋能的网络）、下一代光通信、信息物理安全，以及大规模物联网。



2027年7月30日至8月1 | 中国成都

关于出版

本次大会录用并完成注册的文章将出版到ICTCE2027会议集，并被 Ei Compendex 核心和 Scopus 等检索机构检索。

重要日期

投稿截止日 ---------- 2027年3月5日
审核通知日 ---------- 2027年4月5日
注册截止日 ---------- 2027年4月20日

专题征集

诚邀提交专题分会场提案。
专题分会场作为常规技术议程的有益补充，聚焦前沿新兴研究方向，或是成熟技术方法的创新应用。专题分会场选题需紧跟前沿、富有吸引力。
申请截止日：2027年3月5日（申请发送至ictce_conf@163.com）

组委会

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日程概览

2027年7月30日：线上测试；现场签到
2027年7月31日：开幕式；大会报告&特邀报告；作者汇报
2027年8月1日：作者汇报



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投稿指南

3.全文投稿：汇报并出版
4.摘要投稿：仅汇报不出版
投稿链接： https://www.zmeeting.org/submission/ictce2027 (.pdf only)
文章模板（至少4页满，英文投稿）：
https://www.ictce.org/download/conference-template-letter.docx (word)
https://www.ictce.org/download/conference-latex-template.zip (latex)

征稿主题

Track 1：AI 赋能通信与网络智能
- 通信领域电信基础模型与大语言模型
- AI 原生空口设计
- 物理层通信深度学习
- 智能资源分配与网络优化

Track 2：感知、通信、计算与智能一体化（通感算智一体化）
- 通感一体化波形与信号设计
- 通感一体化资源管理与干扰协同
- 感知、通信、计算融合网络架构
- 算力网络与算网融合

Track 3：智能体通信与人机协同
- 智能体间通信协议与标准（A2A、MCP 等）
- 多智能体协同、协商与共识机制
- 面向智能体的任务驱动通信
- 大模型智能体驱动的网络编排与自动化

Track 4：下一代网络与 6G 关键技术
- 6G 愿景、架构与标准化进展
- 毫米波与太赫兹通信
- 超大规模 MIMO 与新型天线技术
- 可重构智能超表面（RIS）

Track 5：物联网与泛在连接
- 海量机器类通信（mMTC）
- 低功耗广域网（LPWAN）
- 无源物联网与环境反向散射通信
- 工业物联网与智能制造

Track 6：网络空间安全与可信通信
- 物理层安全与安全通信
- 信息物理系统（CPS）安全
- 5G/6G 网络安全架构
- 区块链与分布式信任机制

会址

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