

CALL FOR PAPER WECE 2026



5th Workshop on Electronics Communication Engineering

5th Workshop on Electronics Communication Engineering(WECE2026) which will be held in **October 23–25, 2026, in Chengdu, China**. The conference will be hosted by the University of Electronic Science and Technology of China. WECE aims to provide participants with opportunities to exchange new ideas and research findings face-to-face, establish business or research relationships, and seek global partners for future collaboration. We welcome experts and scholars to actively submit papers and participate in the conference!

Track 2 Description

AI-Enabled Communication and Electronic Systems for Healthcare

The convergence of artificial intelligence with communication networks and electronic systems is transforming how healthcare is sensed, transmitted, and delivered. Wearable and implantable devices, wireless body area networks, and health-oriented Internet of Things (IoT) deployments generate continuous streams of physiological data whose value depends on advances squarely within electronics and communication engineering: energy-efficient integrated circuits, robust biomedical signal processing, low-latency and reliable wireless links, and intelligent network architectures.

Session Chairs & Organizers

Track Chair

Dr. Mideth B. Abisado, National University

Co-Chair

Dr. Eric B. Blancaflor, Mapua University

Track Committee

Dr. William P. Rey, Mapua University

Dr. Roben Juanatas, National University

Dr. An, Xiaofeng,

Jilin Engineering Normal University, Changchun, China

Dr. Wan, Wenming,

West Anhui University, Lu'an, 237012, China

Dr. Yue, Guoqing, Anhui Sanlian University

Dr. Liu, Quinyu, Huainan Normal University

Dr. Lei, Liu, Huainan Normal University

Dr. Zhu, Xuemei, West Anhui University, Lu'an, China

Dr. Ganesh Kumar, University Teknologi Petronas

Dr. Marloun Sejera, Mapua University

Important Dates

Submission Deadline: August 5, 2026

Notification Deadline: August 30, 2026

Registration Deadline: September 10, 2026

Listener Registration: October 18, 2026

Submission Methods

1. Online Submission Link – Select Track 2 for submission:

Online Submission:

<http://confsys.iconf.org/submission/wece2026>

2. Submit via Email – Mark "Track 2 Submission" in the subject line: wece@young.ac.cn

Presentation & Publication: Full paper (4-6 pages)

Oral Presentation Only: Abstract

Template:

<https://www.wece.org/files/IEEE%20Template.docx>

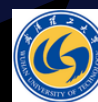
Topics of Interest

- AI-assisted biomedical signal processing: ECG/EEG/EMG/PPG denoising, feature extraction, classification, and compression
- Edge AI and low-power integrated circuits for wearable and implantable health monitoring devices
- Wireless body area networks (WBANs) and communication for wearable/implantable sensors
- 5G/6G, IoT, and network architectures for telemedicine and remote patient monitoring
- Machine learning for physiological data transmission over resource-constrained and lossy links
- Energy-efficient hardware accelerators and neuromorphic circuits for on-device health inference
- Intelligent antenna design, RF sensing, and channel modeling for in/on/off-body communication
- Semantic and task-oriented communication for health data streams
- Federated and distributed learning over health IoT networks: communication efficiency and reliability
- Security, privacy, and trustworthiness of connected medical devices and health communication systems
- Digital twins and real-time signal/communication co-design for smart hospitals
- Testbeds, prototypes, and measurement studies of AI-enabled health sensing and communication systems

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