Special Session 8

Photoelectric Information and Sensing Technology

2026 7th Information Communication Technologies Conference (ICTC) will be held in Nanjing, China during May 8-10, 2026. ICTC 2026 is sponsored by Southeast University, technically co-sponsored by IEEE, and supported by Jiangsu Information Technology Application Society, and Alliance of Key Laboratories for Telecommunication Technology(AKL-TT). At the event, participants will have the opportunity to share their research results in the field of ICT, discuss future technology trends, and how to deal with security challenges related to digitalization. In addition, this conference will further explore how to promote continuous progress in the ICT field, thereby laying a solid foundation for digital development. You are welcome to attend ICTC!

Topics in Special Session 8

Photoelectric Information technology is a foundational discipline focused on the generation, transmission, processing, and utilization of information carried by light. It leverages the unique properties of light, such as high speed, large bandwidth, and excellent parallelism, to enable technologies ranging from high-capacity fiber-optic communication to advanced optical computing and imaging. Photoelectric Sensing, a critical application of this field, involves converting various physical, chemical, or biological parameters into measurable optical signals. Sensors detect changes in light properties—intensity, wavelength, phase, or polarization—caused by interaction with the target. This allows for highly precise, non-contact, and often real-time measurements. Together, these interconnected technologies form the backbone of modern innovation. They are indispensable in telecommunications, medical diagnostics, industrial automation, environmental monitoring, defense systems, and the rapidly growing Internet of Things, driving progress towards smarter and more connected systems.

Chair

Prof. Yufei Ma
Harbin Institute of Technology, China

Bio: Yufei Ma is a professor at Harbin Institute of Technology, China. He is an Optica Fellow and the winner of National Outstanding Youth Science Fund. His research interests include optical sensors, trace gas detection, laser spectroscopy, solid-state laser and optoelectronics. He has given more than 50 invited presentations at international conferences. He serves as area editor for Elsevier Photoacoustics and Wiley Microwave and Optical Technology Letters. He also serves as associate editor for Optica Optics Express, SPIE Optical Engineering, and Frontiers in Physics. He also serves as topical editor for Opto-Electronic Advances, CLP Chinese Optics Letters, MDPI Sensors and Applied Sciences.

Submission Link:
https://www.zmeeting.org/submission/ictc2026 (**Choose Special Session 8 to Submit**)
More details about Special session 8:
https://www.ictc.net/special_8.html

Publications

IEEE

Submitted manuscripts will be peer reviewed by the conference scientific committees.
Accepted papers will be included into **ICTC2026 Conference Proceedings**, published by **IEEE**, and submitted for indexing by **Ei Compendex** and **Scopus**.

Proceedings of ICTC2020 & ICTC2021 & ICTC2022 & ICTC2023 & ICTC2024 & ICTC2025 have all been included in the IEEE Xplore!
Proceedings of ICTC2020 & ICTC2021 & ICTC2022 & ICTC2023 & ICTC2024 have all been indexed by Ei Compendex and Scopus!

Sponsor

東南大學 SOUTHEAST UNIVERSITY

Technical Co-Sponsor

IEEE

Suppoter

江苏省信息技术应用学会 JIANGSU INFORMATION TECHNOLOGY APPLICATION SOCIETY

Patron

UNIVERSITY OF LEEDS

Contact Us

Conference Secretary: Ms. Sia Liu
Email: ictc_general@163.com