Call for Papers – IS3C2025

IS3C2025 is the seventh International Symposium on Computer, Consumer and Control, sponsored by National Chin-Yi University of Technology. This conference offers a great opportunity for scientists, engineers and practitioners to present the latest research results, ideas, developments and applications. IS3C, held every two years, is hosted by the College of Electrical Engineering and Computer Science, National Chin-Yi University of Technology, Taichung, Taiwan. As suggested by the name of the conference, the themes of this conference cover **Computer, Multimedia & Intelligent Computing, AIoT, ICT & Sensor Applications, Semiconductor Devices & Integrated Circuits, Consumer Electronics, Renewable Energy, Systems and Control, Digital Signal Processing** as well as **Artificial Intelligence and Computer Engineering**. Original high-quality papers related to these themes are especially solicited, including theories, methodologies and applications in Computing, Consumer and Control. All accepted papers will be published in the conference proceedings. Excellent accepted papers will be also recommended to related SCI(E)/ EI journals for publication.

SCOPE: Topics of interest include, but are not limited to:

TRACK 1– COMPUTER
- Computer Networks, Mobile Computing and Cloud Computing Technologies
- Digital Content and Web Service
- Software Engineering, Service-Oriented Architecture and Databases
- Artificial Intelligence, Knowledge Discovery and Fuzzy Systems
- Meta-Heuristic Algorithms and Optimization
- Information Security, Digital Right and Watermarking

TRACK 2 – MULTIMEDIA & INTELLIGENT COMPUTING
- Hardware and Software for Multimedia Systems
- Virtual Reality, AR, MR, 3D Processing and Application
- Signal, Audio, Speech Analysis and Processing
- Image/Video Processing and Applications
- Computer Vision and Applications
- Machine Learning and Applications
- Multimedia Forensics and Security
- Human-Machine Interface
- Foundation Models for Multimedia Applications

TRACK 3 - AIoT, ICT & SENSOR APPLICATIONS
- Internet of Things (IoT), Industrial Internet of Things (IIoT) and Artificial Intelligence of Things (AIoT)
- Information and Communication Technology (ICT), Big Data and Analytics, Artificial Intelligence and Machine Learning
- Cyber-Physical Systems, Embedded Systems, System Integration and Application
- Sensing Principles and Mechanisms, Sensor Devices, Sensor Networks, Image Sensors, Systems & Applications

TRACK 4 - SEMICONDUCTOR DEVICES & INTEGRATED CIRCUITS
- IC Design
- FPGA Prototyping
- IC Testing
- System Application of Microelectronics
- Device Modeling, Simulation and Design
- Nano Technology, Material and New Fabrication Technologies
- Sensors Technology and Materials
- Micro Electro Mechanical Systems and Microactuators

TRACK 5 –CONSUMER ELECTRONICS
- Human-Machine Interfaces
- Intelligent Robot and Its Applications
- Computer and Microprocessor-Based Control
- Home/Automotive Electronics Design
- Signal Processing in Measurement
- Sensor Applications
- Low Power Circuit Design
- Electro-optical devices and systems

TRACK 6 –RENEWABLE ENERGY
- Renewable Energy Technologies
- Photovoltaic and Wind Energy Technologies
- Power Conversions of Renewable Energy
- Applications of Power Electronics in Power Systems
- Smart Grid Systems
- Applications of Renewable Energy in Wireless Charging Systems

TRACK 7 –SYSTEMS AND CONTROL
- System Modeling and Simulation, Dynamics and Control
- Intelligent and Learning Control
- Robotics and Mechatronics
- Robust and Nonlinear Control
- Biomedical Systems and Control
- Artificial Intelligence and Internet of Things (AIoT) and Related Applications

TRACK 8 –DIGITAL SIGNAL PROCESSING
- Digital Signal Processing Theory and Methods
- Statistical Signal Processing and Applications
- Biomedical and Biological Signal Processing
- Neural Networks, Fuzzy Systems, Expert Systems, Genetic Algorithms and Data Fusion for Signal Processing
- Embedded Systems for Signal Processing

TRACK 9 –ARTIFICIAL INTELLIGENCE AND COMPUTER ENGINEERING
- AI Image Classification, Processing and Applications
- AI Deep Learning and Its Applications
- AI in Medical Field
- AI in Cyber Security
- AIoT and AIoT-based Applications
- Cloud AI, Edge AI and Terminal AI
- X Reality (XR) and X Technology in Metaverse

TRACK 10 –ADVANCED WIRELESS COMMUNICATION AND SMART CONNECTIVITY
- 5G/6G Wireless Communication Technologies
- AI-Enabled Wi-Fi and Next-Generation Wireless Solutions
- Smart Cities: AI and IoT for Urban Innovation
- Energy-Efficient Networks and Protocols for Smart Devices
- Wireless Technologies for Healthcare and Telemedicine

Submission Policies:

Papers submitted should be written in English. All submissions must be made electronically in PDF format via the IS3C2025 website at https://is3c2025.ncut.edu.tw//paperSubmission/ . Full paper manuscripts should be submitted no more than 4 pages in total length.

Organized / Invited Session:

The IS3C2025 welcomes proposals for organized/invited sessions within conference scope. Please put the proposal and the extended abstracts of all constituent papers in ONE electronic file when submitting. https://is3c2025.ncut.edu.tw/specialSessions/

Important Dates:

Invited Session Proposals Due: April 30, 2025
Paper Abstract Submission Due: March 15, 2025
Notification of Acceptance: April 10, 2025
Final Paper Submission: April 30, 2025

Author Registration Due: June 9, 2025 **(Early-bird Discounts: Before May 15, 2025)**
IEEE Xplore Submission Due: Notify after receiving IEEE submission link
Proceedings of IS3C2025 will be submitted to IEEE Xplore as well as EI index.

Contact:

Conference Secretary
Chuan-Wang Chang, Taiwan
Email:is3c2025@ncut.edu.tw