Call for Papers

Prospective authors from universities, research institutions, government agencies and industry are invited to submit a full paper electronically (https://i-etc.org) with a maximum of six pages.

Full papers are due by February 24th, 2025.

Papers that are presented at i-ETC 2025 will be published in the i-ETC 2025 conference proceedings, and posted in the IEEE Xplore Digital Library.

Call for Posters

We invite undergraduate and graduate student researchers to participate in the student research poster competition. The best posters presented at the conference will receive nominal cash prizes. Abstracts of Posters are due March 29, 2025.

Abstracts of posters presented at the conference will be published in the i-ETC 2025 conference proceedings.

Panel Sessions/Tutorials and Technical Sessions

Prospective organizers of special sessions, panel sessions, tutorials sessions, and technical sessions are invited to submit proposals by February 24th, 2025.
Energy Systems
Smart Grid; Power Systems Operation and Planning; Sustainable and Renewable Energy Systems; Power Electronics; Electromagnetic Energy Conversion and Storage; Energy Consumption Modeling and Optimization; Energy and Environmental Engineering

Signal/Image Processing & Control
Smart Manufacturing & Automation; Intelligent Robot Systems; Artificial Intelligence; Machine Learning & Neural Networks; Sustainable Manufacturing; Manufacturing Process Monitoring and Control

Communication and Computer Engineering
5G and 6G Wireless Communication Technologies; Computer Architecture & High-Performance Computing; VLSI & Low-power Design, Robotic Systems; Internet of Things(IOT)

Electronics and Circuits
Smart Circuits and Systems; VLSI Design; Nanomaterials and Nanotechnology; Optical Communication

Mechanical Engineering
Heat Transfer; Fluid Mechanics; Thermodynamics; Mechanisms & Robotics; Mechanical Design; Mechanics & Mechanotronics

Material Science & Engineering
Smart Materials; Innovative Engineering Materials; Materials Design and Applications; Composite Materials Science and Technology; Nanomaterials; Materials and Manufacturing Engineering

Civil and environmental Engineering
Environmental Engineering; Water Resources; Hydraulic Information; Geotech, Water and Air Quality Studies; Instrumentation and Remote Sensing; Geographic Information Systems; Building Information Modeling; New Construction Materials; Sustainable Solutions and Practices; Transportation

Technology Design
Architecture; Drafting; Survey & Mapping, Drone Surveying; 3D Printing & Prototyping; UX Digital Product Design; Civil Engineering; Web & Digital Platforms; Human Centered Design; Mobile App; Accident Reconstruction

Digital Media
Digital Animation; Game Development; Digital Cinema Production; Cinematography; Directing; Post-Production; Digital Photography; 360° Photography & Video; Digital Audio; Music Editing & Production; Home Automation & Internet of Things (IOT); VX Voice Experience Design & Development; Digital, Web, Interface & Experience Design

Information Technology
Networking & Data Communications; Cybersecurity; Network Administration and Security; Virtualization; Automated Testing & Monitoring; Computer Forensics & Security; Healthcare Information Systems; Project Management; Product Management; Facilities

Aerospace Technology and Management
Propulsion Systems; Fixed Wing, Helicopter, Advanced Air Mobility, UAS, Space Vehicle Technology; Maintenance Concepts; Technician Training; Safety Management; Airline & Airport Operations, Route Planning; Aviation Business Management; Security; Flight Training; Corporate and Airline Pilot Operations

Industrial Automation, Power, and Control
Designing & Maintaining Automated Systems & Machines; Control System Programming; Protecting Critical Cyber Systems; Robotics in Manufacturing; Integrating Automation Solutions; Automated Safety Systems; Power System Protection & Control Solutions; Electrical Safety & Arc-Flash Hazard Reduction; Smart Sensors & Industrial Internet of Things (IIOT)

Transportation & Automotive
Diesel Systems; Automotive Technology; Collision Repair; Power Sport; Street Rod; Vehicle Electrification

Mixed Reality
Augmented Reality; Virtual Reality; Hybrid Reality; Mixed Reality Visual and Audio; MR Simulations, 3D Modeling; Training Simulations; Drone Surveying and Automation

Technology Management
Business Intelligence Systems; Production and Operations Management; Project Management; Quality Control, Safety and Health Issues, and Statistics.

Innovations & Solutions for Today’s Challenges
www.i-etc.org

Engineering Topics*

Technology Topics*

Computing Trends
Database Systems; UX and Visualization; e-Business, e-Learning & e-Government; Modeling & Simulation; Data Science; Computing Education & Recruitment; Computing Frontiers.

Software Engineering
Software Design and Design Patterns; Software Reliability, Safety & Security Methods; Software Engineering Methodologies; Software Testing; Evaluation & Analysis Technologies.

Medicine & Healthcare
Bioinformatics; Health Informatics; Biomedical Engineering & Sciences; Medical Image Processing & Object Recognition.

Intelligent Systems
Artificial Intelligence; Machine Learning & Deep Learning; Cognitive Computing; Information & Knowledge Engineering; Data Mining; Computer Vision & Pattern Recognition.

Security & Communication
Privacy; Internet Security; Cryptography; Secure Storage and Transactions; Parallel & Distributed Computing; Internet of Things; Wireless/Mobile Communication; Cloud Computing.

Education Topics*

*Additional Education Topics in Each Track

Capstone Projects/Undergraduate Research
Education
Effective Teaching Activities; Interdisciplinary Education; Engaging Undergraduate Students in Research; Industry & Education Collaboration.

Technology in Teaching and Learning
Innovation Strategies; Infrastructure Technologies; Online & Distance Learning; Smart Classrooms; Virtual & Remote Labs; Game-Based Learning.

Accreditation and Assessment
Curriculum Design & Development; Accreditation & Quality Control; Retention & Support Strategies; Educational Innovation, Role of Laboratories.

Diversity and Inclusion Issues
Academic Leadership, Diversity, & Inclusion; Assessing Diversity & Inclusion Programs; Skills Development & Competencies; Retention of Women & Gender Equality.