

ITC 2025 | AI – To Improve Test & Evaluation

CALL FOR PAPERS 2025

October 20–23, 2025 Horseshoe Las Vegas | Nevada

The 2025 Conference

The short course program at ITC 2025 will offer valuable training opportunities for practicing professionals, delivering focused and practical knowledge in the field of telemetry. Led by industry experts, these courses will cover a wide range of topics, providing attendees with the latest advancements, methodologies, and best practices.

In the exhibit halls, vendors will showcase the most cutting-edge hardware and software solutions in the telemetry industry. Participants can explore and interact with the latest technologies, fostering innovation and enabling them to stay at the forefront of the field.

Submit a paper for ITC 2025!

Requested topics include:

- Machine Learning for Telemetry Data Analysis
- AI-Driven Sensor Calibration and Fusion
- Autonomous Systems and AI-Enabled Control
- AI-Driven Telemetry Compression and Transmission
- Cyber Considerations for AI TM
- Advanced Machine Learning Models and TM
- Standardization with Open Telemetry
- Machine Learning for Telemetry Data Compression
- Data Quality and Noise Reduction AI TM Methods/Models
- AI and Real-Time TM Processing
- Model Complexity and Interpretability
- Edge Computing and Resource Constraints
- Adaptability to Dynamic Environments

The International Telemetry Conference (ITC) 2025 invites researchers, practitioners, and industry experts to submit papers on the transformative potential of Artificial Intelligence (AI) in the field of telemetry. The intersection of AI and telemetry is pivotal for the future of technology. Current trends and challenges include Generative AI, Multimodal AI, local models, data pipelines, security, and ethics. ITC 2025 aims to explore innovative methods for analyzing telemetry data, uncover predictive models, and optimize system performance using AI. The conference will highlight successful AI implementations in telemetry, bridge knowledge gaps, and inspire further AI adoption. Join us at ITC 2025 to address the profound impact of AI on telemetry and explore its current and future possibilities.

We invite authors to submit original research papers, case studies, and novel implementations that seek to use AI to improve Test & Evaluation.

Submit Abstracts By: March 21, 2025

To be considered, please submit your one-page abstract by March 21, 2025 to www.telemetry.org. Acceptance notification and instructions will be sent by April 17, 2025. Final manuscripts — not exceeding 10 pages in length — are required by June 30, 2025. Formatting guidelines and templates can be found on the “Information for Authors” page at www.telemetry.org.

Student Paper Contest

Students are encouraged to submit telemetry-related papers and are asked to formally declare their submissions as student papers. There are separate categories for graduate and undergraduate students, with cash awards of \$1,500 and \$750 for first and second place in each category. Student winners will receive a reimbursement (cumulative total of \$1,000) of their travel expenses from within the continental United States to ITC 2025 to present their winning paper(s) as well as a cumulative total of 4 room nights for the authors.

Best Paper Awards

- *Best Conference Paper*
- *Lawrence Rauch Award for Telemetry Standards*
- *Myron Nichols Award for Telemetry Spectrum Management, Preservation, Protection or Advocacy*
- *Cliff Aggen Awards for Undergraduate and Graduate Student Papers*

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www.telemetry.org