

1st International Workshop on AI in Test (AIT)

San Antonio, Texas, US
October 15 - 16, 2026



General Chair:

Li-C. Wang - University of California
Santa Barbara, USA

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IMPORTANT NOTE ON SCOPE: A strong session should assess where AI is truly useful, where it is immature, how ROI and reliability should be evaluated, and how engineering work may change.

However, the objective of this workshop is not to reach definitive answers or predict the future impact of AI on semiconductor testing. The AI landscape is evolving too rapidly, and many technologies are still in their early stages of adoption. Instead, the goal is to help the community identify the right questions to ask, the appropriate evaluation criteria to apply, and the key uncertainties that organizations must consider when making technology, investment, and workforce decisions. Session organizers are encouraged to present evidence, observations, experiences, competing viewpoints, and open challenges rather than attempting to advocate a single conclusion.

For further information:

Li-C Wang – *General Chair*
University of California Santa Barbara
licwang@ece.ucsb.edu

Yervant Zorian – *Vice General Co-Chair*
Synopsys
zorian@synopsys.com

Marc Hutner – *Vice General Co-Chair*
Siemens
marc.hutner@siemens.com

Call for Proposal

Artificial Intelligence (AI) is rapidly entering semiconductor-test practice. Engineers are using vibe coding, AI-assisted development environments, agentic coding assistants, custom agents, MCP-style service interfaces, and task-specific AI applications to accelerate or rethink engineering workflows. This call is not for individual papers. The **AI in Test (AIT) Workshop** invites session proposals that examine how AI may transform major areas of semiconductor test. This call is not for individual papers. Each accepted proposal will organize one focused workshop session around a significant application area, with the goal of providing practical clarity on technology readiness, ROI, reliability, workforce impact, and adoption strategy. The workshop aims to move beyond both hype and fear. AI can produce impressive results quickly, but fast output does not necessarily mean that a problem has been solved reliably. At the same time, the speed of AI-generated results raises serious questions about job content, engineering roles, organizational investment, and future skill requirements.

AIT Workshop will take place in conjunction with the **IEEE International Test Conference (ITC 26)**; is sponsored by IEEE Philadelphia Chapter; and conceived by the IEEE Test Technology Technical Council (TTTC).

Topics: AIT expects to accept approximately 4-5 session proposals. Each session should address a broad application area rather than a narrow point solution. Example areas include:

- Test-program requirements, generation, revision, maintenance, and evolution
- Test-data analytics, yield learning, debug support, and engineering reporting
- Test infrastructure, data services, MCP interfaces, and AI-ready workflow platforms
- Test operations, manufacturing optimization, scheduling, material flow automation and productivity improvement
- DFT, validation, silicon bring-up, diagnosis, reliability, and failure analysis
- Supply-chain, documentation, knowledge management, and cross-organization workflows
- AI agents, engineering copilots, app-based agents, and skill/workflow ecosystems for test engineering

Submissions guidelines: Prospective organizers are invited to submit a 1-2 page PDF session proposal at <https://easychair.org/conferences/?conf=itc2026>. Submissions should include:

- Session title; organizer names, affiliations, and contact information
- Session abstract and description of the proposed topic and motivation
- Proposed session structure, such as invited talks, panel discussion, moderated debate, demonstrations, or audience interaction
- Expected speakers or speaker profiles, if known; expected takeaways for workshop participants (Sessions are expected to be 60 to 90 minutes in duration)

A session proposal should define a topic and **explain how the session will guide discussion around the following questions:**

- Technology assessment: What AI technologies are applicable to this area, and what is their current maturity?
- Investment strategy and ROI: Where should companies invest, and how should return be measured beyond token cost/speedup?
- Quality and trust: How should AI-generated results be evaluated for correctness, reliability, reproducibility, and engineering trust?
- Duplication versus real progress: When do similar AI solutions indicate duplication, independent validation, or necessary adaptation?
- Workforce impact: How may job content change, which tasks may be automated or augmented, and what new jobs may emerge?
- Future skills: What skills will be required for AI-native semiconductor-test organizations?

Key dates:

Submission deadline: **July 24, 2026** **August 17, 2026 (Extended deadline)**

Submission site: <https://easychair.org/conferences/?conf=itc2026>

