IEEE DTPI 2025

5th Annual International Conference on

Digital Twins and Parallel Intelligence

ATLANTA, GA
22-24 April 2025

2025.IEEE-DTPI.ORG

IEEE DTPI 2025 will present the cutting-edge research and technical progress of the rapidly evolving field of digital twinning. The 2025 Conference will be held in-person in Atlanta, GA near the campus of Georgia Tech. The conference aims to brings together scholars and industrial practitioners to share scientific and technological advances as well as to gain a deeper understanding of generating digital twins and deriving parallel intelligence. DTPI's particular topics also include standards, theory, practice, and various vertical applications of DTPI, including smart cities, transportation, energy, robotics, manufacturing, healthcare, spectrum management, etc.

Submissions are invited in the following categories:

FULL TECHNICAL PAPERS (4-6 pages), original contributions addressing relevant DTPI topics of interest listed in this CFP. Review, Tutorial and Vision papers are also welcome. Full technical papers will be submitted to Manuscript Central under the "DTPI 2025" issue. The papers will also receive consideration for direct publication in IEEE Journal on RFID. Authors of accepted papers are expected to present their work at the DTPI Conference in Atlanta.

SPECIAL SESSIONS (by invitation), consisting of contributions to fill a two-hour session on DTPI topics of interest. Session proposals must be submitted electronically via e-mail (nedam@gatech.edu). A total of six accepted proposals will be invited to submit special session contributions.

EXTENDED ABSTRACTS (1-2 pages), consisting of a lightly reviewed, 1-2 pages abstracts on DTPI topics of interest to be presented in a poster presentation format at the conference.

INDUSTRIAL FORUM & EXHIBITIONS (IF&E), we additionally accept submissions of proposals for tutorials, demonstrations, posters, workshops and talks targeting cutting-edge, industry-centric topics. Trade space is available for discussions and demonstrations.

*The main technical program will only include papers of the highest standard as selected by the TPC, in accordance with the IEEE guidelines. Final manuscripts should be accompanied by a full registration of at least one author before uploading the camera-ready version. Accepted manuscripts will be presented either in oral or poster format.

Topics of interest include, but not limited to:

Theory of Development for DTPI

Information Infrastructure for DTPI

Data Analytics and Artificial Intelligence R&D for DTPI

DTPI Applications in Vertical Areas:

  Smart Cities
  Smart Infrastructure Systems
  Transportation
  Power & Energy Systems
  Autonomous Vehicles
  Human Systems
  Blockchain and Distributed
    Systems
  Communications and Networks
  Ecology Digital Twins
  Cyber-Physical Social
  Decision Support Systems
  Healthcare
  Robotics
  Manufacture Systems

Industrial Practices of DTPI

Emerging DT Standards & Practices

Authors of Published Papers receive peer reviews by technology leaders from the multi-disciplinary IEEE DTPI and Council on RFID community and are enrolled in the IEEE DTPI 2025 Best Paper Competition.

Accepted papers will be submitted for inclusion into IEEE Xplore subject to meeting IEEE Xplore's scope and quality requirements.

IEEE DTPI 2025 ORGANIZING COMMITTEE:

TPC Co-chairs:
  Logan Beaver, Old Dominion U.
  Soheil Sabri, U of Central FL

Workshop Chair:
  Sean Mondeserie, U of Central FL

IEEE JRFID Special Issue Liaison:
  Neda Madi, Georgia Tech

IMPORTANT DATES:

Full Technical Papers: 13 Jan 2025
Acceptance Notification: 10 Mar 2025
Extended Abstracts/Posters: 15 Mar 2025
Special Session Proposals: 15 Oct 2024
IF&E Proposals: 1 Feb 2025
Camera-Ready Uploads: 31 Mar 2025