

IEEE CS





37th International Conference on Tools with Artificial Intelligence

November 03-05, 2025, Athens, GREECE

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Special Tracks:

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3. Al and Assistive Technologies for People in Need

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Benoit Rottembourg, IINRIA, France Damien Pellier, Université Grenoble Alpes, France CS annual scientific meeting for three decades. It provides a major international forum where the creation and exchange of ideas related to artificial intelligence are fostered among academia, industry, and government agencies. The conference facilitates the cross-fertilization of these ideas and promotes their transfer into practical tools, for developing intelligent systems and pursuing artificial intelligence applications. ICTAI encompasses all technical aspects of specifying, developing and evaluating the theoretical underpinnings and applied mechanisms of the AI-based components of computer tools such as algorithms, architectures and languages.

The IEEE International Conference on Tools with Artificial Intelligence (ICTAI) has been a leading IEEE-

Topics (but not limited to)

Al Foundations

Evolutionary computing, Bayesian vs Fuzzy Neural Networks Decision Theory and Decision Optimization Search, SAT, and CSP Logics and Ontologies

Al in Domain-specific Applications

Computational Biology, Medicine & Biomedicine Web, Communication, Social Networking Games and E-Commerce Finance and Risk Management

Al in Methodologies and Systems

Intelligent Robotics, Computer Vision and Patterns Analysis-Association & Understanding, Text Deep Analysis/Interpretation Intelligent Software Engineering

Security, Data Privacy, and Information Assurance Al in Data Analytics, Data Mining and Big Data

Visual Analytics for Big Data Computational Modeling for Big Data Large-scale Recommendation and Social Media Systems Semantic-based Big Data Mining & Games

Al in Smart Cities

Healthcare, Traffic lights, Transportation, Environment, Energy. Smart homes, Smart Neighborhoods, Smart Cities

Al in Large Scale Energy Systems

Nuclear, Wind, Water, othe

Al Synergistic Models

Bridging Al Models for Advanced Al Synergies of Al Tools

Machine Learning & Deep Learning

Learn continuous-Incremental Learning

Dimension Reduction and Feature Selection Learning Graphical Models and Complex Networks Active, Cost-Sensitive, Semi-Supervised, Multi-Instance, Multi-Label and Multi-Task Learning Transfer/Adaptive, Rational and Structured Learning Preference/Ranking, Ensemble, and Reinforcement Learning

Knowledge Representation, Reasoning, Cognition

Knowledge Representation and Reasoning Knowledge Extraction, Management and Sharing Case-based Reasoning and Knowledge-based Systems Cognitive Modelling and Semantic Web

Al and Decision Systems

Decision Systems
Decision Guidance and Support Systems
Systems Al based Optimization
Group, Distributed, and Collaborative Decisions
Crowd-sourcing and Collective Intelligence Decision-making
Strategic, Tactical and Operational-level Decisions

Uncertainty in Al

Uncertainty and Fuzziness Representation and Reasoning Approximate/Exact Probabilistic Inference

Natural Language Processing

Natural Language Processing/Understanding Large Language Models, Sentiment Analysis Dialogue systems and digital assistants/chatbots

Al and Societal Impact

Al Fairness, Accountability and Transparency Al interpretability and explainability Ethical and Trustworthy Al

Papers Submission

The submissions should contain original, high quality work, not submitted or published elsewhere. Papers should be submitted electronically in pdf format (through the ICTAI 2025 web site) and should conform to IEEE specifications (single-spaced, double-column, 10-point font size, up to 8 pages).

Papers Presentation

Each accepted paper should be presented by one of the authors and accompanied by at least one full registration fee payment to guarantee publication in the proceedings. All accepted papers (with payment) will be included in proceedings of ICTAI 2025, which will be published by the IEEE Computer Society.

Special Issues in IEEE & Int. Journals

Extended versions of selected papers from the conference will be reviewed and published in special issues in various IEEE and Int. Journals

Best ICTAI Papers Recognition Awards

ICTAI provide several financial awards to the top-5 best student papers and to the ICTAI Best Paper Award.

Additional & Contact Information

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