SCOPE

The purpose of the International Conference on Agents and Artificial Intelligence is to bring together researchers, engineers and practitioners interested in the theory and applications in the areas of Agents and Artificial Intelligence. Two simultaneous related tracks will be held, covering both applications and current research work. One track focuses on Agents, Multi-Agent Systems and Software Platforms, Distributed Problem Solving and Distributed AI in general. The other track focuses mainly on Artificial Intelligence, Knowledge Representation, Planning, Learning, Scheduling, Perception Reactive AI Systems, and Evolutionary Computing and other topics related to Intelligent Systems and Computational Intelligence.

A substantial amount of research work is ongoing in these knowledge areas, in an attempt to discover appropriate theories and paradigms to use in real-world applications. Much of this important work is therefore theoretical in nature. However there is nothing as practical as a good theory, as Boltzman said many years ago, and some theories have indeed made their way into practice. Informatics applications are pervasive in many areas of Artificial Intelligence and Distributed AI, including Agents and Multi-Agent Systems; This conference intends to emphasize this connection, therefore, authors are invited to highlight the benefits of Information Technology (IT) in these areas. Ideas on how to solve problems using agents and artificial intelligence, both in R&D and industrial applications, are welcome. Papers describing advanced prototypes, systems, tools and techniques and general survey papers indicating future directions are also encouraged. Papers describing original work are invited in any of the areas listed below. Accepted papers, presented at the conference by one of the authors, will be published in the Proceedings of ICAART with an ISBN. Acceptance will be based on quality, relevance and originality. Both full research reports and work-in-progress reports are welcome. There will be both oral and poster sessions.

Special sessions, dedicated to case-studies and commercial presentations, as well as tutorials dedicated to technical/scientific topics are also envisaged: companies interested in presenting their products/methodologies or researchers interested in holding a tutorial are invited to contact the conference secretariat. Additional information can be found at http://www.icaart.org/.

CONFERENCE AREAS

Each of these topic areas is expanded below but the sub-topics list is not exhaustive. Papers may address one or more of the listed sub-topics, although authors should not feel limited by them. Unlisted but related sub-topics are also acceptable, provided they fit in one of the following main topic areas:

1. AGENTS
2. ARTIFICIAL INTELLIGENCE
AREA 1: AGENTS

Agent Communication Languages
Cooperation and Coordination
Distributed Problem Solving
Economic Agent Models
Emotional Intelligence
Group Decision Making
Intelligent Auctions and Markets
Mobile Agents
Multi-Agent Systems
Negotiation and Interaction Protocols
Agent Models and Architectures
Physical Agents at Work
Privacy, Safety and Security
Programming Environments and Languages
Robot and Multi-Robot Systems
Self Organizing Systems
Semantic Web
Simulation
Swarm Intelligence
Task Planning and Execution
Ethical Issues
Agent Oriented Software Engineering
Web Intelligence
Agent Platforms and Interoperability
Autonomous Systems
Cognitive Robotics
Collective Intelligence
Conversational Agents

AREA 2: ARTIFICIAL INTELLIGENCE

AI and Creativity
Deep Learning
Evolutionary Computing
Fuzzy Systems
Hybrid Intelligent Systems
Industrial Applications of AI
Intelligence and Cybersecurity
Intelligent User Interfaces
Knowledge Representation and Reasoning
Knowledge-Based Systems
Ambient Intelligence
KEYNOTE SPEAKERS

ICAART 2021 will have several invited keynote speakers, who are internationally recognized experts in their areas. Their names are not yet confirmed.

PAPER SUBMISSION

Authors should submit a paper in English, carefully checked for correct grammar and spelling, addressing one or several of the conference areas or topics. Each paper should clearly indicate the nature of its technical/scientific contribution, and the problems, domains or environments to which it is applicable. To facilitate the double-blind paper evaluation method, authors are kindly requested to produce and provide the paper WITHOUT any reference to any of the authors, including the authors’ personal details, the acknowledgments section of the paper and any other reference that may disclose the authors’ identity.

Only original papers should be submitted. Authors are advised to read INSTICC’s ethical norms regarding plagiarism and self-plagiarism thoroughly before submitting and must make sure that their submissions do not substantially overlap work which has been published elsewhere or simultaneously submitted to a journal or another conference with proceedings. Papers that contain any form of plagiarism will be rejected without reviews.
Authors can submit their work in the form of a Regular Paper, representing completed and validated research, or as a Position Paper, portraying a short report of work in progress or an arguable opinion about an issue discussing ideas, facts, situations, methods, procedures or results of scientific research focused on one of the conference topic areas. All papers must be submitted through the online submission platform PRIMORIS and should follow the instructions and templates that can be found under Guidelines and Templates. After the paper submission has been successfully completed, authors will receive an automatic confirmation e-mail.

PUBLICATIONS

All accepted papers will be published in the conference proceedings, under an ISBN reference, on paper and on digital support.

SCITEPRESS is a member of CrossRef (http://www.crossref.org/) and every paper on our digital library is given a DOI (Digital Object Identifier).

The proceedings will be submitted for indexation by Thomson Reuters Conference Proceedings Citation Index (CPCI/ISI), DBLP, EI (Elsevier Engineering Village Index), Scopus, Semantic Scholar, Google Scholar and Microsoft Academic.

IMPORTANT DATES

Conference Date: 4 - 6 February, 2021

Regular Papers
- Paper Submission: September 14, 2020
- Authors Notification: November 12, 2020
- Camera Ready and Registration: November 26, 2020

Position Papers
- Paper Submission: October 29, 2020
- Authors Notification: December 4, 2020
- Camera Ready and Registration: December 18, 2020

Workshops
- Workshop Proposal: September 23, 2020

Doctoral Consortium
- Paper Submission: December 9, 2020
- Authors Notification: December 22, 2020
- Camera Ready and Registration: January 5, 2021

Special Sessions
Special Session Proposal: **September 23, 2020**  
Paper Submission: **November 26, 2020**  
Authors Notification: **December 14, 2020**  
Camera Ready and Registration: **December 22, 2020**

**Tutorials**  
Tutorial Proposal: **December 17, 2020**

**Demos**  
Demo Proposal: **December 17, 2020**

**Panels**  
Panel Proposal: **December 17, 2020**

**Open Communications**  
Paper Submission: **December 9, 2020**  
Authors Notification: **December 22, 2020**  
Camera Ready and Registration: **January 5, 2021**

**SECRETARIAT**

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**VENUE**  
Available soon.

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