

Hector Florez
Ixent Galpin
Christian Grévisse (Eds.)

ICAI Workshops (ICAIW 2026)

Joint Proceedings of the

- **7th International Workshop on Applied Artificial Intelligence (WAAI 2026)**
- **8th International Workshop on Applied Informatics for Economics, Society and Development (AIESD 2026)**
- **1st International Workshop on AI for Autonomous Agents and Multi-Agent Systems (WAIAMS 2026)**
- **8th International Workshop on Data Engineering and Analytics (WDEA 2026)**
- **1st International Workshop on Health Care Information Systems (WHCIS 2026)**
- **6th International Workshop on Knowledge Management, Innovation and Technologies (WKMIT 2026)**
- **3rd International Workshop on Sustainability Challenges in Tourism and Smart Destinations (SCTSD 2026)**
- **5th International Workshop on Systems Modeling (WSM 2026)**

co-located with the 9th International Conference on Applied Informatics (ICAI 2026)

Editors

Hector Florez 
Universidad Distrital Francisco José de Caldas
Bogotá, Colombia

Ixent Galpin 
Universidad de Bogotá Jorge Tadeo Lozano
Bogotá, Colombia

Christian Grévisse 
Université du Luxembourg
Esch-sur-Alzette, Luxembourg

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Corresponding Editor:
Hector Florez
Universidad Distrital Francisco José de Caldas
Bogotá, Colombia
haflorefz@udistrital.edu.co

Preface

This volume contains the proceedings of the workshops: 7th International Workshop on Applied Artificial Intelligence (WAAI 2026), 7th International Workshop on Applied Informatics for Economy, Society, and Development (AIESD 2026), 1st International Workshop on AI for Autonomous Agents and Multi-Agent Systems (WAIAMS 2026), 8th International Workshop on Data Engineering and Analytics (WDEA 2026), 1st International Workshop on Health Care Information Systems (WHCIS 2026), 6th International Workshop on Knowledge Management, Innovation and Technologies (WKMIT 2026), 3rd International Workshop on Sustainability Challenges in Tourism and Smart Destinations (SCTSD), and 5th International Workshop on Systems Modeling (WSM 2026). These workshops were co-located with the 9th International Conference on Applied Informatics (ICAI 2026)¹ which took place at the University of Central Florida located in Orlando, USA, from 13 to 17 October 2026.

7th International Workshop on Applied Artificial Intelligence (WAAI 2026). The Seventh International Workshop on Applied Artificial Intelligence (WAAI 2026) aims to provide a forum for researchers, practitioners, and members of the Artificial Intelligence community to present and discuss recent advances, emerging trends, and practical applications of AI. The workshop focuses on both theoretical developments and real-world implementations across diverse domains, including healthcare, data analytics, intelligent systems, and human-centered AI. WAAI promotes interdisciplinary exchange and encourages contributions that bridge the gap between foundational AI techniques and applied informatics. The workshop also seeks to foster collaboration among researchers from academia and industry, facilitating the development of innovative solutions to complex problems. As part of the 9th International Conference on Applied Informatics (ICAI 2026), WAAI will contribute to strengthening the AI research community by providing a dedicated space for discussion, networking, and dissemination of high-quality research results.

8th International Workshop on Applied Informatics for Economy, Society and Development (AIESD 2026). The workshop on Applied Informatics for Economy, Society and Development organized by the Universidad Ecotec (Ecuador) seeks to promote discussion and dissemination of current economics research, systems for territorial intelligence, e-participation, e-democracy and territorial economic development; with special emphasis on social and environmental development. The objective of this edition of AIESD is to discuss aspects related to computer science applied in society. The idea is to learn the different techniques and tools that are used to study social phenomena, economic growth, the interaction between economic analysis and decision-making. The workshop seeks to promote an atmosphere of dialogue among the community of professionals working on issues related to technology and its application in the economy as well as society.

1st International Workshop on AI for Autonomous Agents and Multi-Agent Systems (WAIAMS 2026). WAIAMS invites the scientific community to present innovative ideas on how to create agents and/or multi-agents that interact with an environment, transfer learning, evaluate agents, and ensure their safe use. The concept

¹<http://icai.itiud.org/>

of agents can be used when addressing complex computational problems. In artificial intelligence, these agents can perceive and, more importantly, make decisions based on what is happening in their environment. If the decision is made by an AI algorithm, it is considered an intelligent agent, as it incorporates reasoning. On the other hand, if it can solve problems automatically, without human assistance, it is considered an autonomous agent.

8th International Workshop on Data Engineering and Analytics (WDEA 2026).

Data has become pervasive. Data analytics, data mining, data science, or more generally the practice of identifying patterns or constructing mathematical models based on data, is at the heart of most new business models or projects. This, coupled with what has been termed the Big Data phenomenon, used to describe challenging scenarios involving either datasets that are too big to be handled using traditional approaches, datasets with diverse formats and semantics, data streams that need to be actioned in real time, or a combination of these, has led to a whole new series of rapidly evolving tools, algorithms and methods which combine data engineering, computer science, statistics and mathematics. The aim of this workshop, organized by Universidad de Bogotá-Jorge Tadeo Lozano, is to present recent results at the intersection of these areas, discussing new methods or algorithms, or applications including machine learning, databases, optimization or any type of algorithms which consider managing or obtaining value from data.

1st International Workshop on Health Care Information Systems (WHCIS 2026)

The continuous evolution of Health Care Information Systems (HCIS) represents a critical frontier in modern medicine, fundamentally altering how clinical data is acquired, managed, and interpreted. However, a significant gap remains between the deployment of clinical engineering infrastructure, the physical realities of biomechanics, and the computational abstraction of biological models. As healthcare environments generate increasingly complex datasets, there is a pressing need for frameworks that translate raw clinical data into actionable, mathematically rigorous diagnostic insights with minimal information loss. This workshop is motivated by the necessity to foster interdisciplinary synergy, ensuring that advanced data analysis techniques and biological modeling are seamlessly integrated into robust clinical information architectures.

6th International Workshop on Knowledge Management, Innovation and Technologies (WKMIT 2026).

WKMIT is an annual event intended to be an important forum of the Knowledge Management and Innovation community, organized by the GRUPO GEMIS of the Universidad Tecnológica Nacional Facultad Regional Buenos Aires. The knowledge is a strategic resource to obtain better results in the organizations and its management promotes continuous improvement practices and innovation. A complete and integral knowledge management requires an approach from different perspectives: people, organizational culture, processes, tools and technologies, among others. The workshop aims at providing a forum for researchers and KM community members to discuss and exchange ideas and experiences on diverse topics of KM. It also seeks to strengthen a space for discussion of innovative ideas, development of emerging technologies and practical experiences related to Knowledge Management in general and each of its technologies in particular.

3rd International Workshop on Sustainability Challenges in Tourism and Smart Destinations (SCTSD 2026)

The workshop on Sustainability Challenges in Tourism

and Smart Destinations organized by the Universidad Estatal Península de Santa Elena (Ecuador) seeks to promote discussion of the application of sustainability criteria for the development of tourist products and destinations, including management of natural and cultural resources, strategies and approaches for the promotion of tourist destinations. Socialize and disseminate the results of research in smart tourism in Ecuador and the world. Promote academic debate on experiences, innovation in the hotel and tourism field and new trends in the industry.

5th International Workshop on Systems Modeling (WSM 2026). WSM aims to bring together researchers and practitioners working in different areas of systems modeling to provide an opportunity for the modeling community to further advance the foundations of modeling and modeling in emerging areas. It is mainly focused on Business Process Modeling, Model-Driven Architecture, Model-Driven Engineering, Modeling in Software Engineering among other areas related to software modeling.

The workshops received 87 submissions in total. All submitted papers underwent a double-blind peer review process, where each paper was reviewed by at least two (2) experts. After a careful discussion, the diverse program committees decided to accept 34 research papers, giving an overall acceptance rate of 39.08%. This volume contains these papers. These papers are distributed across the workshops as follows:

- 28 submissions received for WAAI, of which 5 were accepted;
- 13 submissions received for AIESD, of which 8 were accepted;
- 4 submissions received for WAIAMS, of which 3 were accepted;
- 15 submissions received for WDEA, of which 3 were accepted;
- 9 submissions received for WHCIS, of which 6 were accepted;
- 4 submissions received for WKMIT, of which 2 were accepted;
- 7 submissions received for SCTSD, of which 4 were accepted;
- 7 submissions received for WSM, of which 3 were accepted.

Authors of accepted papers come from the following countries: Argentina, Brazil, Chile, Colombia, Ecuador, Mexico, Morocco, Peru, Spain, and United States.

All workshops took place on 14 and 15 October 2026. Each session featured paper presentations, followed by comments from the session chairs and a plenary discussion. We would like to express our sincere appreciation to all session chairs for their careful preparation and for facilitating stimulating and insightful discussions.

October 2026

Hector Florez
Ixent Galpin
Christian Grévisse

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