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ICAI Workshops (ICAIW 2025)


Joint Proceedings of the


- 6th International Workshop on Applied Artificial Intelligence (WAAI 2025)
- 7th International Workshop on Applied Informatics for Economics, Society and Development (AIESD 2025)
- 7th International Workshop on Data Engineering and Analytics (WDEA 2025)
- 5th International Workshop on Knowledge Management, Innovation and Technologies (WKMIT 2025)
- 2nd International Workshop on Sustainability Challenges in Tourism and Smart Destinations (SCTSD 2025)
- 4th International Workshop on Systems Modeling (WSM 2025)

co-located with the 8th International Conference on Applied Informatics (ICAI 2025)

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Preface

This volume contains the proceedings of the workshops: 6th International Workshop on Applied Artificial Intelligence (WAAI 2025) 7th International Workshop on Applied Informatics for Economy, Society, and Development (AIESD 2025), 7th International Workshop on Data Engineering and Analytics (WDEA 2025), 5th International Workshop on Knowledge Management, Innovation and Technologies (WKMIT 2025), 2nd International Workshop on Sustainability Challenges in Tourism and Smart Destinations (SCTSD), and 4th International Workshop on Systems Modeling (WSM 2025). These workshops were co-located with the 8th International Conference on Applied Informatics (ICAI 2025)¹ which took place at Université Mohammed VI Polytechnique located in Ben Guerir, Morocco, from 8 to 11 October 2025.

6th International Workshop on Applied Artificial Intelligence (WAAI 2025). The workshop on Applied Artificial Intelligence is an annual event intended to be an important forum of the Artificial Intelligence (AI) community, organized by the GRUPO GEMIS of the Universidad Tecnológica Nacional Facultad Regional Buenos Aires. The workshop aims to provide a forum for researchers and AI community members to discuss and exchange ideas and experiences on diverse topics of AI. It also seeks to strengthen a space for discussion of innovative ideas as well as the development of emerging technologies and practical experiences related to Artificial Intelligence in general, and each of its technologies in particular. Submissions are invited on both applications of AI and new tools and foundations.

6th International Workshop on Applied Informatics for Economy, Society and Development (AIESD 2025). 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, and 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.

7th International Workshop on Data Engineering and Analytics (WDEA) 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 is to

¹<http://icai.itiud.org/>

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.

5th International Workshop on Knowledge Management, Innovation and Technologies (WKMIT 2025)). 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.

2nd International Workshop on Sustainability Challenges in Tourism and Smart Destinations (SCTSD) The workshop on Sustainability Challenges in Tourism and Smart Destinations organized by the Universidad Estatal Peninsula 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. The workshop aims to socialize and disseminate the results of research in smart tourism in Ecuador and the world. Furthermore, it promotes academic debate on experiences, innovation in the hotel and tourism field, and new trends in the industry.

4th International Workshop on Systems Modeling (WSM 2025) The International Workshop on Systems Modeling (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, and Modeling in Software Engineering among other areas related to software modeling.

The workshops received 64 submissions in total, from countries including Ecuador, Argentina, Spain, Colombia, Brazil, Uzbekistan and Chile. 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 35 research papers, giving an overall acceptance rate of 54.7%. This volume contains these papers. These papers are distributed across the workshops as follows:

- 15 submissions received for WAAI, of which 5 were accepted;
- 11 submissions received for AIESD, of 4 six were accepted;
- 12 submissions received for WDEA, of which 6 were accepted;
- 4 submissions received for WKMIT, of which 2 were accepted;

- 14 submissions received for SCTSD, of which 8 were accepted;
- 8 submissions received for WSM, of which 5 were accepted.

All workshops were held on 8 October 2025. In each session, paper presentations were followed by remarks from the session chairs and a plenary discussion. We sincerely thank all session chairs for their thorough preparation and for fostering engaging and insightful discussions.

October 2025

Hector Florez
Ixent Galpin
Christian Grévisse

Organization

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2nd International Workshop on Sustainability Challenges in Tourism and Smart Destinations (SCTSD)

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