

RESEARCH AND APPLICATIONS IN ARTIFICIAL INTELLIGENCE (IA)2



INTRODUCTION

The research group has been conducting research activities in various areas of Artificial Intelligence since the mid-1980s, under an inter- and transdisciplinary approach, always with the aim of exploring the potential of Artificial Intelligence techniques to solve some of the problems facing our society. Its research, with an eminently applied character, has focused on solving real-world problems in areas such as education, civil engineering, energy efficiency, sustainable and efficient mobility, architectural design or safety in the urban environment, through solutions ranging from classical expert systems to more complex approaches that integrate different AI techniques.

RESEARCH TOPICS

- Data Science and engineering.
- Data Mining and Machine Learning.
- Agentic AI, Multiagent Systems and Intelligent Autonomous Agents.
- Heuristic Search.
- User Modeling.
- Modeling and Automatic Generation of Educational Content. Collaborative Learning.
- Reinforcement Learning.
- Recommendation and Personalization Techniques.
- Information Retrieval and Data Extraction.

SCIENTIFIC-TECHNICAL SERVICES

- Development of AI-based Applications.
- Complex System Modeling and Simulation.
- Adaptive Systems.
- Digital twins and shadows.
- Development of data extraction, integration and fusion.
- Decision support tools.
- Predictive models and tools.

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