

Special Session on
Emerging AI based Decision Making Trends and Applications (EDMTA23)
in conjunction with
23rd International Conference on Hybrid Intelligence Systems (HIS)
December 12-14, 2023

Website: <http://www.mirlabs.org/his23/cfss.php>

Hybrid Mode – Online & Offline

Onsite Venues: <http://mirlabs.org/his23/venue2.php>

Objectives and Scope

Intelligent Decision Making is a promising research field of emergent artificial/computational intelligence concerned with developing the next generation of intelligent Decision Support systems. Therefore, this special session intends to bring together researchers worldwide to contribute to solving artificial/computational problems in the context of Hybrid Intelligent Decision-Making Systems, contributing to solving real-world complex problems, for instance, involving Big Data, Security, Imprecision, Uncertainty, and Vagueness. Through this special session, the organizers intend to promote theoretical and empirical research and invite researchers to contribute with original research articles, surveys, and case study papers, for instance, in the scope of the following main topics. We invite high-quality contributions from all research areas that address the emerging data challenges in these streams.

Subtopics

The topics include, but are not limited to:

- Explainable Artificial Intelligence (XAI)
- Safe AI: Trends, and applications
- Machine Learning/Deep Learning applications
- Information and Decision Support Systems (iDSS)
- Intelligent optimization using global optimization techniques
- Big Data and Data Science
- Hybrid computing using neural networks - fuzzy systems - evolutionary algorithms
- Hybrid optimization techniques (Swarm Intelligence, Evolutionary Algorithms, Meta-Heuristics)
- Hybrid of soft computing and statistical learning techniques
- Human-Computer Interaction for Interactive Systems
- Intelligent User Interfaces
- User Modeling preferences
- Natural interfaces and ambiguity solving techniques
- Bio-Inspired Computation, Evolutionary Computing, Evolutionary Programming and Evolutionary Strategies, Meta-Heuristics: Theory and Foundations.

Paper publications

- Proceedings will be published in Lecture Notes in Networks and Systems, Springer (<https://www.springer.com/series/15179>)
- Indexed by SCOPUS, INSPEC, WTI Frankfurt eG, zbMATH, SCImago
- Paper maximum length is 10 pages
- Papers must be formatted according to Springer format (Latex/word) available at: <https://www.springer.com/de/authors-editors/book-authors-editors/manuscript-preparation/5636#c3324>
- Submission Link: <https://cmt3.research.microsoft.com/ICHIS2023>

Important Dates

Paper submission due: **September 30, 2023**

Notification of paper acceptance: **October 31, 2023**

Registration and Final manuscript due: **November 10, 2023**

Conference Date: **December 13-15, 2023**

Special Session Chairs

- **Ana Maria Madureira** - Interdisciplinary Studies Research Center (ISRC) - Institute of Engineering of Porto – Polytechnic of Porto (ISEP/P.PORTO)
- **André Santos** - Interdisciplinary Studies Research Center (ISRC) - Institute of Engineering of Porto – Polytechnic of Porto (ISEP/P.PORTO)
- **Ivo Pereira** - Interdisciplinary Studies Research Center (ISRC) - Fernando Pessoa University
- **Nuno Bettencourt** - Interdisciplinary Studies Research Center (ISRC) - Institute of Engineering of Porto – Polytechnic of Porto (ISEP/P.PORTO)
- **Susana Nicola** - Interdisciplinary Studies Research Center (ISRC) - Institute of Engineering of Porto – Polytechnic of Porto (ISEP/P.PORTO)

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