

**Special Session on
Emerging Decision Making Trends and Applications (EDMTA)
at
20th International Conference on Intelligent Systems Design and Its Applications (ISDA20)
On
World Wide Web
December 12-15, 2020**

<http://www.mirlabs.net/isda20/>

Objectives and Scope

Intelligent Decision Making is a promising research field of emergent artificial/computational intelligence concerned with the development of the next generation of intelligent systems. Therefore, this special session intends to bring together researchers worldwide to provide a contribution for solving artificial/computational problems in the context of Hybrid Intelligent Decision Making Systems, providing a contribution for 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 as well as 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. Several topics of interest include, but are not limited to, the following:

- 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 are expected to be published by **Advances in Intelligent Systems and Computing**, which is now indexed by ISI Proceedings, DBLP, Ulrich's, EI-Compendex, SCOPUS, Zentralblatt Math, MetaPress, Springerlink:
- Papers maximum length is 10 pages.
- Papers must be formatted according to Springer format (Latex/word) available at: <http://www.springer.com/series/11156>

Important Dates

Paper submission due: October 15, 2020

Notification of paper acceptance: November 15, 2020

Registration and Final manuscript due: November 25, 2020

Conference: December 12-15, 2020

Special Session Chairs

- Ana Madureira - Interdisciplinary Studies Research Center (ISRC) - Institute of Engineering of Porto – Polytechnic of Porto (ISEP/IPP)
- André Santos - Interdisciplinary Studies Research Center (ISRC) - Institute of Engineering of Porto – Polytechnic of Porto (ISEP/IPP)
- Bruno Cunha - Interdisciplinary Studies Research Center (ISRC) - Institute of Engineering of Porto – Polytechnic of Porto (ISEP/IPP)
- Ivo Pereira - Interdisciplinary Studies Research Center (ISRC) - Fernando Pessoa University
- Leonilde Varela – Production and Systems Department, Minho University

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