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IEEE INDUSTRIAL ELECTRONICS SOCIETY
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**Special Session on
“Computational Intelligence Systems: Iterative,
Dynamic, and Evolving Design”**

Organized by

Dr Jérôme Mendes, Institute of Systems and Robotics (ISR-UC), Portugal

Dr João Paulo, Institute of Systems and Robotics (ISR-UC), Portugal

Dr Radu-Emil Precup, Department of Automation and Applied Informatics, Politehnica University of Timisoara, Romania

Dr Cristiano Premebida, Loughborough University, United Kingdom

Dr Rui Araújo, Institute of Systems and Robotics (ISR), and Department of Electrical and Computer Engineering, University of Coimbra, Portugal

Call for Papers (CFP)

Industry has faced strong changes mainly due to the ever-increasing data, complex algorithms, environmental legislation, safety, and efficient management of the energy and sustainable resources, which have significantly increased nonlinear behaviors and other complex characteristics. Considering these facts and trends of an “Industry 4.0” strategy, more advanced solutions are currently needed. In this context, this special session focuses on the perspectives, developments, and applications under the topic of iterative, dynamic, and evolving design methods of computational intelligence systems.

Being a multidisciplinary session, papers that have as main topic, soft computing algorithms, such as fuzzy systems, neural networks, evolutionary methods, Bayesian networks, reinforcement learning, and machine learning are welcome.

Topics of interest include, but are not limited to:

- Evolving/Iterative/Self-organizing/Self-adaptive/Dynamic Soft Computing Algorithms;
- Evolving Fuzzy Systems;
- Dynamic Neural Networks;
- Dynamic Bayesian Network;
- Dynamic Machine/Deep Learning Algorithms;
- Online Evolutionary Algorithms;
- Incremental Clustering Algorithms;
- Dynamic Reinforcement Learning;
- Dynamic Classifier Systems;
- Nature-inspired Optimization;
- Tensor Product-based Model Transformation.

IES Technical Committee Sponsoring the Special Session (if any):