

Special Issue

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Title of the Special Issue:

“Evolutionary Fuzzy Systems”

Scope of the special issue:

After almost forty years of development, fuzzy systems have demonstrated their superb ability to solve different problems arising in various application domains. In the last two decades, the cooperative framework established made the research interest move to augment fuzzy systems with learning and adaptation capabilities. Since the first pioneer works dated back to 1991, one of the most successful approaches to hybridize fuzzy systems with learning and adaptation methods, apart of course from fuzzy neural networks, has resulted in so-called Evolutionary Fuzzy Systems. These hybrid computational intelligence techniques augment the approximate reasoning method of fuzzy systems with the learning capabilities of evolutionary algorithms.

This topic has attracted considerable attention in the Computation Intelligence community in the last few years. The predominant type of EFS is that focused on FRBSs. However other kinds of EFSs have been developed, with successful results. In the last few years we observe the increase of published papers in the topic due to the high potential of EFSs.

The aim of this special issue is to provide a forum to disseminate and discuss recent and significant research efforts on Evolutionary Fuzzy Systems in order to deal with current challenges on this topic.

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Scheduling:

Tentative submission (title and abstract)	September 20, 2010
Paper submission:	October 30, 2010
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Second revision notification:	February 20, 2011
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Submission instructions:

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