
International Journal of Systems Control**Call for Papers****Special Issue on:****Fuzzy Modeling and Control of Complex Dynamic Systems**

Fuzzy systems have demonstrated the ability to formalize in a computationally efficient manner the approximate reasoning capability typical of humans. One of the important research challenges today is the design of intelligent systems with a higher level of flexibility, so that complex (nonlinear and/or uncertain) dynamic systems can be modeled and controlled efficiently. A very interesting characteristic of the fuzzy systems is their capability to handle in the same framework numeric and linguistic information. This characteristic made these systems very useful for modeling and control of complex dynamic systems. The universal approximation property of the fuzzy models is not the only remarkable property. Fuzzy models add a new dimension to the information that can be extracted from the system. The new dimension is the linguistic information, which provides intuitive descriptions over the behavior of the modeled system. Different types of fuzzy models have been proposed in the literature and they can be characterized by having fuzzy propositions as antecedents and consequences of the rules (Mamdani fuzzy models) or by having the consequences of the rules as functional expressions of the antecedents (Takagi–Sugeno fuzzy models). To address the problems of modeling, control, prediction, classification and data processing in a nonlinear and/or uncertain environment, the fuzzy system must be able to fully adapt its structure, adjust its parameters or use a robust fixed structure that overcomes the nonlinearities and/or uncertainties. The newly established concept of computational intelligence is a result of the fusion between conventional methods of model based control and fuzzy systems with applications in robotics, industrial processes, medicine, etc. The special issue seeks original research work in theory and applications of Fuzzy Modeling and Control of Complex Dynamic Systems. Submitted articles must describe original and previously unpublished works, not currently under review by another conference, workshop or journal.

Submission of papers

All manuscripts should be submitted by email to the guest editors. The papers must be formatted according to HyperSciences Journals guidelines (see : [Instructions for Authors](#)¹ to get sample formats in LaTeX and Word). All articles selected for publication will be reviewed by at least two reviewers with expertise in the area.

Deadline

Manuscript Submission Due: **June 19, 2010**

Acceptance Notification: **September 1, 2010**

Final Manuscript Due: **October 1, 2010**

Publication: **October 2010**

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¹ http://www.hypersciences.org/index.php?option=com_content&view=article&id=6&Itemid=6