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Special Session Call for Papers

SMC2015 Special Session on 【Intelligent Learning in Control Systems】

Special Session organizer

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Introduction/Call for Papers

The IEEE SMC TC on intelligent learning in control systems is soliciting for papers of the special session, named "Intelligent learning in control systems.", in SMC 2015. For details of IEEE SMC 2015, please visit the conference website http://www.smc2015.org/. You are cordially invited to join the special session, and please accept my invitation and help make the special session a great success. Note that all the submissions will be rigorously reviewed by qualified peer-reviewers. Should you join this special session, please directly submit your paper(s) via the conference website of SMC 2015 by April 7, 2015. Should you have any question, please feel free to contact us via cctsai@nchu.edu.tw, and look forward to working with you.

Indicative Topics/Areas

In recent years, a trend has emerged in which techniques of machine learning and intelligent control have been integrated into autonomous systems on a variety of scales to meet the needs of implementation at the angle of products. Many learning methods, such as expert systems, reinforcement learning, mimetic algorithms, and support vector machines and so on, have been investigated by a finite number of researchers. Several intelligent control approaches, including fuzzy control, neural networks, genetic algorithm, artificial immune networks, swarm particle techniques, and etc., have gained successful applications in many fields. In light of this emerging trend, it is timely important to propose a special session, called " intelligent learning in control systems, at SMC 2015, in order to promote the advanced theory, practice, and interdisciplinary aspects of integration of learning and control in the area of intelligent and autonomous systems. This special session aims to disseminate high quality research results regarding not only the theoretic development in integration of learning theories and control techniques, but also related effective applications to individual or cooperative autonomous systems. Aside from that, this session is also aimed to facilitate interactions among researchers and practitioners. In this proposal, particular attention will be paid to highly selected topics about intelligent methods and control for several kinds of systems, including intelligent service mobile robots, intelligent systems, intelligent vehicles, intelligent control systems and etc.

The special session is submitted to Section:[A]
A: Systems Science & Engineering
B: Human-Machine Systems
C: Cybernetics

Organized by
IEEE SMC TC on Intelligent Learning in Control Systems

Important Dates

March 31, 2015: Deadline for submission of full-length papers to special sessions.
June 30, 2015: Acceptance/Rejection Notification.
July 31, 2015: Final camera-ready papers due in electronic form.

Submission

Manuscripts for a Special Session should **NOT** be submitted in duplication to any other regular or special sessions and should be submitted to SMC 2015 main conference online submission system on SMC 2015 conference website.

All submitted papers of Special Sessions have to undergo the same review process (three completed reviews per paper). The technical reviewers for each Special Session paper will be members of the SMC 2015 Program Committee and qualified peer-reviewers to be nominated by the Special Session organizers.