

The deadline for full-paper submission deadline has been **extended**.

New deadline: **May 22, 2013**

IEEE SMC 2013

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SYSTEMS, MAN, AND CYBERNETICS

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<http://www.smc2013.org/>

Special Session Call for Papers SMC2013 Special Session on

Innovative Technologies and Applications in Computer Intelligence

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Introduction/Call for Papers

Technologies in the research field of computer intelligence have made great progress in recent decades. One of the recent approaches to computer intelligence is computational intelligence, a set of nature-inspired computational methodologies and applications. Many real world problems are not considered to be well-posed problems mathematically. For such problems, attempts of mathematical approaches to find solutions met some difficulties, but new and innovative computational intelligence approaches for finding optimal solutions to such problems have been proposed and many of these innovative technologies are now becoming popular in the field of computer science. Many researchers in the research field have made great efforts to develop methodologies for optimization, classification, ambiguity, agents, etc, and these research results have had great influence in the greater field of computer science. Driven by such motivation, the innovative technologies in computer intelligence are proposed not only in areas of artificial neural networks, evolutionary computation, fuzzy theories, swarm intelligence, and immune systems but also in new paradigms such as emergence in intelligent agent based system, human computer interaction system such as affective computing. With the advancement of computer hardware providing more powerful computing environments, researchers have been able to challenge solving larger and more complex problems in real-life problems such as the analysis of 3D protein structure and medical databases.

Indicative Topics/Areas

*Neural Networks, *Evolutionary Computation, *Fuzzy Theory, *Ant Colony Optimization, *Swarm Intelligence, *Artificial Immune System, * Other Softcomputing Methodologies

*Mobile based Intelligent System, * Computer Education and E-learning, *Data Mining in Business Intelligence, *Affective Computing, *Medical Informatics, *Other Softcomputing Applications

Important Dates

May 15, 2013: Deadline for submission of full-length papers to special sessions.

June 30, 2013: Acceptance/Rejection Notification.

July 31, 2013: 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 2013 main conference online submission system on SMC 2013 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 2013 Program Committee and qualified peer-reviewers to be nominated by the Special Session organizers.

Organized by IEEE SMC SECTION CHAPTER Hiroshima