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# CALL FOR PAPERS



## 2006 IEEE International Conference on Systems, Man, and Cybernetics



**Oct. 8 - Oct. 11, 2006**

**The Grand Hotel,  
Taipei, Taiwan**

**Location**

Formerly called "Formosa" or Beautiful Island by the Portuguese, the island of Taiwan is endowed with a wide-variety of breathtaking natural scenery, from sublime Taroko Gorge to the coral reefs and beaches of Kenting. Having established itself as a stronghold of the IT industry since the 90's, Taiwan is ranked the fourth among the world's top suppliers of information products in 2004. This conference will match the mainstream of Taiwan hi-tech to the prominent innovative researches, providing a bridge between the state of systems technology and the best engineering practice.

**Theme**

**Emerging Information Technology for Human-Machine Systems and Cybernetics**

SMC 2006 strives to bring together people in the area of SMC to provide an international forum for the reporting of current developments, to summarize the state-of-the-art, and to exchange new ideas and advances on all aspects of systems engineering, human machine interfaces, and emerging cybernetics. In recent years, a trend has emerged in which bio-inspired intelligence plays a key role in these aspects to pursue for novel technology. The resulting techniques vitalize life science engineering and daily life applications. In light of this trend, the theme for this conference is **Emerging Information Technology for Human-Machine Systems and Cybernetics**. Papers related to this theme are especially solicited, including theories, methodologies, and applications of intelligent systems in science, technology, security, education etc. Topics covering industrial issues/applications and academic research include, but are not limited to:

Systems Modeling & Control	Robotic Systems	Manufacturing Systems
Policy & Decision Support Systems	Brain-Computer Interface	Systems Engineering Education
Intelligent Transportation Systems	Intelligent Systems	Technology Assessment
Petri Nets & Discrete Event Systems	Fuzzy Systems	Internet/Electronic Commerce
Image Processing/Pattern Recognition	Computational Intelligence	Data Mining & Management
Multiagent Systems & Distributed AI	Knowledge-Based Systems	Large-Scale Systems
Quality/Reliability & Systems Engineering	Bio-Informatics	Intelligent Communications
Intelligent Devices/Consumer Electronics	Computational Life Science	Smart Sensory Networks
Distributed Intelligent Systems	Machine Learning	Conflict Resolution
Expert and Knowledge Based Systems	Soft Computing	Discrete Event Systems
Robotics and Manufacturing Automation	Human Machine Interaction	Industrial Applications
Service Systems and Organizations	Control of Uncertain Systems	Systems Assurance
Knowledge Acquisition in Intelligent Systems	Homeland Security	

**Important Dates**

**February 1, 2006:** Deadline for submission of proposals for special sessions

**March 30, 2006 (Extended):** Deadline for submission of papers (full papers only)

**May 15, 2006:** Notification of acceptance

**July 1, 2006:** Final camera-ready papers due

**Call for Contributed Papers**

Prospective authors are invited to submit their full paper(s) electronically through the conference web site. Papers will be reviewed by at least two referees for technical merit and content. Accepted papers must be presented at the conference by an author whose name will appear in the proceedings.

**Call for Special Sessions**

Interested attendees are encouraged to propose special sessions, which consist of five papers that provide a focused discussion of new or innovative topics. Each proposal must include the session title, description, and organizers. Special session papers will undergo the same intense review process and submission is not a guarantee for acceptance. Special session papers must be clearly indicated when submitted with a copy sent to the designated special session organizer.

**Conference Web Site**

For latest and additional information, please visit <http://ins.cn.nctu.edu.tw/smc2006>