



# Call for Papers

<http://isnn2010.sjtu.edu.cn> or <http://isnn2010.mae.cuhk.edu.hk>

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## Secretariat

[isnn2010@sjtu.edu.cn](mailto:isnn2010@sjtu.edu.cn)

The Seventh International Symposium on Neural Networks (ISNN 2010) will be held in Shanghai, following the successes of previous events. Shanghai is the largest city in China, located in her eastern coast at the outlet of the Yangtze River. Originally a fishing and textiles town, Shanghai grew to importance in the 19th century. In 2005 Shanghai became the world's busiest cargo port. The city is an emerging tourist destination renowned for its historical landmarks such as the Bund and Xintiandi, its modern and ever-expanding Pudong skyline including the Oriental Pearl Tower, and its new reputation as a cosmopolitan center of culture and design. Today, Shanghai is the largest center of commerce and finance in mainland China, and has been described as the "showpiece" of the world's fastest-growing economy. In addition, Shanghai is the venue of forthcoming World Expo 2010 to take place from May 1 to October 31.

ISNN 2010 aims to provide a high-level international forum for scientists, engineers, and educators to present the state of the art of neural network research and applications in related fields. The symposium will feature plenary speeches given by world renowned scholars, regular sessions with broad coverage, and special sessions focusing on popular topics.

## Call for Papers and Special Sessions

Prospective authors are invited to contribute high-quality papers to ISNN 2010. In addition, proposals for special sessions within the technical scopes of the symposium are solicited. Special sessions, to be organized by internationally recognized experts, aim to bring together researchers in special focused topics. Papers submitted for special sessions are to be peer-reviewed with the same criteria used for the contributed papers. Researchers interested in organizing special sessions are invited to submit formal proposals to ISNN 2010. A special session proposal should include the session title, a brief description of the scope and motivation, names, contact information and brief biographical information on the organizers.

## Topic Areas

**Computational Neuroscience and Cognitive Science:** Spiking neurons, visual and auditory cortex, neural encoding & decoding, plasticity & adaptation, brain imaging, learning & memory, inference & reasoning, perception, emotion & development, attractor & associative memory, neurodynamics & complex systems

**Models, Methods and Inference:** Stability and convergence analysis, neural network models, supervised learning, unsupervised learning, embeddings and manifold learning, active learning, statistical & information-theoretic methods, kernel methods & support vector machines, mixture models, graphical and causal models, Bayesian networks, topic models, Gaussian processes, model selection, matrix/tensor analysis, structured & relational data, clustering

**Vision and Auditory Modelling:** Visual perception and modelling, visual selective attention, statistical and pattern recognition, visual coding and representation, object recognition, motion and tracking, natural scene analysis, auditory perception & modelling, source separation, speech recognition and speech synthesis, speaker identification, audio & speech retrieval, music modelling & analysis

**Control, Robotics and Hardware:** Neuromorphic hardware & implementation embedded neural networks, fuzzy neural networks, cognitive robotics, developmental robotics, multi-agent systems & game theory, reinforcement learning, planning & decision making, action & motor control, visuomotor control

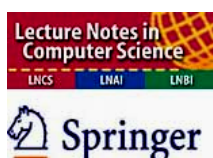
**Novel approaches and Applications:** Brain-like systems, adaptive intelligent systems, brain-computer interfaces, granular computing, hybrid intelligent systems, neuroinformatics & neuroengineering, bioinformatics, information retrieval, data mining & knowledge discovery, natural language processing.

## Paper Submission

Authors are invited to submit full-length papers (10 pages maximum) by the submission deadline through the online submission system. Potential organizers are also invited to enlist five or more papers with cohesive topics to form special sessions. The submission of a paper implies that the paper is original and has not been submitted under review or copyright-protected elsewhere and will be presented by an author if accepted. All submitted papers will be refereed by experts in the field based on the criteria of originality, significance, quality, and clarity. The authors of accepted papers will have an opportunity to revise their papers and take consideration of the referees' comments and suggestions. The ISNN 2010 proceedings will be published by Springer in its series of Lecture Notes in Computer Science (EI) and Advances in Intelligent and Soft Computing (ISTP). Selected good papers will be included in special issues of several journals.

## Important Dates

Special session proposals .....	November 1, 2009
Full paper submission .....	December 1, 2009
Notification of acceptance .....	January 1, 2010
Camera-ready copy and author registration .....	February 1, 2010



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