

Special Session

Recurrent Neural Networks: Design, Analysis, Simulation, Application and New Advances

2008 IEEE International Conference on Networking, Sensing and Control

(IEEE ICNSC'08)

<http://liu.ece.uic.edu/ICNSC08>

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International Asia Pacific Convention Center & HNA Resort

Sanya, Hainan, China

The research topic of recurrent neural networks is closely related to the ICNSC08 conference. Specifically, recurrent neural networks are some kind of autonomic computing, bioinformatics, collaborative systems, control of networks, distributed intelligent systems, multi-level multi-objective optimization, network-based computing systems, and so on.

In this special session, we will focus on both theoretical and practical aspects of recurrent neural networks (RNN) research. The goal of this special session is to draw together best researchers in this field to share not only their successful experience but also their less favorable lessons. Original papers in the field of recurrent neural networks including design, analysis, simulation, application and new advances are all invited. The topics of the session include, but are not limited to:

- Hopfield-type recurrent neural networks,
- Cellular neural networks,
- Supervised-learning recurrent neural networks,
- Other types of recurrent neural models,
- New types of recurrent neural models,
- Theoretical analysis of the above five RNN,
- Simulation study of the above five RNN,
- FPGA/hardware Implementation of the above five RNN,
- Application examples of the above five RNN,
- New advances of the above five RNN,
- Comparison between the above five RNN.

Paper Submission

Complete original manuscripts must be electronically submitted to the conference and special session at <http://liu.ece.uic.edu/ICNSC08/>. Submitted manuscripts should be six (6) pages in the IEEE two-column and IEEE-compatible PDF format, including figures, tables, and references. A LaTeX style file and a Microsoft Word template are available from the conference website. In addition to submit your paper through ICNSC08 Web site, please send an email notice as well to the special session organizer,

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Important Dates

- Paper submission deadline: **October 1, 2007**
- Notification of acceptance: November 15, 2007
- Camera-ready copy and author registration: December 15, 2007