

[2005 International Conference on Natural Computation](#)  
[2005 International Conference on Fuzzy Systems and Knowledge Discovery](#)

27 - 29 August 2005, Changsha, China

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Home Page: <http://www.xtu.edu.cn/nc2005>  
<http://www.ntu.edu.sg/home/elpwang/nc2005>  
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\*\*\* Submission Deadline: 15 March 2005 \*\*\*

**CALL FOR PAPERS AND SPECIAL SESSION PROPOSALS**

The 2005 International Conference on Natural Computation (ICNC'05) and the 2005 International Conference on Fuzzy Systems and Knowledge Discovery (FSKD'05) will be jointly held in Changsha, China from 27 to 29 August 2005. The conferences will feature the most up-to-date research results in computational algorithms inspired from nature, including biological, ecological, and physical systems. It is an exciting and emerging interdisciplinary area in which a wide range of techniques and methods are being studied for dealing with large, complex, and dynamic problems. Specific areas include neural computation, evolutionary computation, quantum computation, DNA computation, chemical computation, information processing in cells and tissues, molecular computation, computation with words, fuzzy computation, granular computation, artificial life, swarm intelligence, ants colony, artificial immune systems, etc., with applications to knowledge discovery, finance, operations research, and more. The joint conferences will also promote cross-fertilization over these exciting and yet closely-related areas. Registration to either conference will entitle a participant to the proceedings and technical sessions of both conferences, as well as the conference banquet and meals.

**Publications:**

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The ICNC'05 and FSKD'05 conference proceedings will be published in Springer's Lecture Notes in Computer Science (LNCS) and Lecture Notes in Artificial Intelligence (LNAI), respectively. Both the LNCS and LNAI are indexed in SCI-Expanded. A selected number of authors will be invited to expand and revise their papers for possible inclusions in peer-reviewed international journals / edited books.

**Special Sessions:**

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In addition to regular sessions, participants are encouraged to organize special sessions on specialized topics. Each special session should have at least 4 papers. Special session organizers will solicit submissions and conduct reviews on the submitted papers. Proposals for special sessions should be sent to the respective Program Chairs, i.e.,

Ke Chen (neural computation, [Ke.Chen@manchester.ac.uk](mailto:Ke.Chen@manchester.ac.uk) )

Yew Soon Ong (other topics in ICNC'05, [asysong@ntu.edu.sg](mailto:asysong@ntu.edu.sg) )

Yaochu Jin (FSKD'05, [yaochu.jin@honda-ri.de](mailto:yaochu.jin@honda-ri.de) )

#### Keynote Speakers:

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Shun-ichi Amari, Japan

Aike Guo, China

Nikhil R. Pal, India

Xin Yao, UK

#### About Changsha, Hunan, China:

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Changsha, the capital of Hunan Province, is a historic and cultural city in southern China and a busy port on the Xiangjiang River, with a population over 6 million. Founded 3000 years ago, the city became the capital of the Zhou state (951-960 AD) and a leading commercial center during the Song dynasty (960-1279 AD). Changsha International Airport is easily accessible with direct flights to all major domestic and some international destinations. Other famous tourist destinations in Hunan include the Zhangjiajie National Park (natural heritage listed by UN) and Fenghuang (Phoenix) Ancient City.

#### Important Dates

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Paper Submission : 15 March 2005

Decision Notification : 15 April 2005

Final Versions / Author Registration: 15 May 2005

#### Contact

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Email: [nc2005@xtu.edu.cn](mailto:nc2005@xtu.edu.cn)

Phone/Fax: +86 732 829 2201 / 829 3249

#### Submission of Papers

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Authors are invited to submit a full paper as an electronic file (postscript, pdf or Word format) at the conference website. Templates are available at both the conference website and the Springer website.

### Sponsorship / Exhibition

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The conferences will offer product vendors a sponsorship package and/or an opportunity to interact with conference participants. Product demonstration and exhibition can also be arranged. For more information, please visit the conference web page.

### Sponsor / Organizer

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Xiangtan University, China

### Technical Co-Sponsor

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IEEE Circuits and Systems Society  
IEEE Computational Intelligence Society  
IEEE Control Systems Society

### In Co-operation with

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International Neural Network Society  
International Fuzzy Systems Association  
Chinese Association for Artificial Intelligence  
European Neural Network Society  
Fuzzy Mathematics and Systems Association of China  
Japanese Neural Network Society  
Asia-Pacific Neural Network Assembly

### Honorary Conference Chairs

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Shun-ichi Amari, Japan  
Lotfi A. Zadeh, USA

### International Advisory Board

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FSKD'05:  
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