



## The 2023 19th International Conference on Natural Computation, Fuzzy Systems and Knowledge Discovery (ICNC-FSKD 2023)

29-31 July 2023, Harbin, China

<http://icnc2023.hrbust.edu.cn>

### Call for Papers

The 2023 19th International Conference on Natural Computation, Fuzzy Systems and Knowledge Discovery (ICNC-FSKD 2023) will be held from 29-31 July 2023 in Harbin, China. Harbin, the capital of Heilongjiang Province, is an ideal summer destination due to its mild and sunny climate around July. Zhongyang Pedestrian Street and Laodaowai have an amazing number of old European-style buildings and mouth-watering local eats. Located nearby is the St Sophia Church, one of Harbin's most famous landmarks. If you venture out of the city, you will be fascinated by the unique nature attractions of Heilongjiang province, including Wudalianchi Volcanic lava landscape, cranes hometown Zhaolong Nature Reserve, Wuying Forest Park, Tangwanghe National Forest Park, Shangganling Stream Forest Park, etc..

As with the past ICNC-FSKD conferences, all papers in conference proceedings will be submitted to EI Compendex, SCOPUS, and ISTP (ISI Proceedings), as well as IEEE Xplore (**all previous ICNC-FSKD conferences from 2005 to 2021 have been indexed**). **Extended versions of selected best papers will appear in SCIE-indexed (including Sensors, Impact Factor 3.847) and Ei-indexed (including International Journal of Computational Intelligence and Applications) international journals.**

ICNC-FSKD is a premier international forum for scientists and researchers to present the state of the art of data mining and intelligent methods inspired from nature, particularly biological, linguistic, and physical systems, with applications to computers, systems, control, robotics, communications, and more. This is an exciting and interdisciplinary area in which a wide range of theory and methodologies are being investigated and developed to tackle complex and challenging problems. The registration fee of US\$500 includes proceedings, lunches, dinners, banquet, coffee breaks, and all technical sessions.

Submissions of papers describing original work in, but not limited to, the following topics are enthusiastically encouraged.

**Neural Computation** - Deep Learning; Recurrent Neural Networks; Support Vector Machines and Statistical Neural Network Models; Unsupervised and Semi-supervised Learning Neural Networks.

**Evolutionary Computation** – Genetic and Evolutionary Algorithms; Particle Swarm Optimization and Ant Colony Optimization; Multi-Objective Optimization; Artificial Life and Artificial Immune Systems; Intelligent Agents; Quantum Computing; Molecular, DNA, Membrane, and Cultural Computing.

**Fuzzy Theory and Algorithms** - Fuzzy theory and models; Rough Set; Granular Computation; Uncertainty Management

**Natural Computation Applications** - Data analysis; Image, Speech and Signal Processing; Vision and multimedia; Control and robotics, Decision and support.

**Knowledge Discovery Foundations**- Association Rules; Classification; Clustering; Privacy Preserving Data Mining; Statistical Methods for Data Mining; Parallel/Distributed Data Mining; Knowledge Management; Machine Learning and Artificial Intelligence.

**Knowledge Discovery in Specific Domains** - Big data, Text, Web and the Internet, Graphic model discovery, Software warehouse and software mining, Bioinformatics, Financial engineering.

**Information Technology for Knowledge Discovery** - Data engineering; Signal processing and multimedia; Communications and networking; Software engineering; Automation, robotics, and control; Distributed systems and computer hardware.

Organizing Committee		Deadlines
<b>General Chairs:</b> Qingguo Chen, Harbin University of Science and Technology, China Guanglu Sun, Harbin University of Science and Technology, China <b>General Co-Chair:</b> Kenli Li, Hunan University, China <b>TPC Chairs:</b> Liang Zhao, University of São Paulo, Brazil Lipo Wang, Nanyang Technological University, Singapore <b>Organizing Chairs:</b> Suxia Zhu, Harbin University of Science and Technology, China Ming Gao, Harbin University of Science and Technology, China Lili Liang, Harbin University of Science and Technology, China Zheng Xiao, Hunan University, China <b>Proceedings Chairs:</b> Fei Lang, Harbin University of Science and Technology, China Chengjie Sun, Harbin Institute of Technology, China <b>Publicity Chairs:</b> Xu Zhou, Hunan University, China Dapeng Lang, Harbin Engineering University, China Xin Liu, Harbin University of Science and Technology, China Chen Chen, Harbin University of Science and Technology, China Xinyu Liu, Harbin University of Science and Technology, China <b>Sponsorship Chairs:</b> Kechao Wang, Harbin University, China Haipeng Jin, Harbin University of Science and Technology, China		<b>Paper Submission:</b> 30 April 2023 <b>Decision Notification:</b> 30 May 2023 <b>Author Registration &amp; Final Paper:</b> 30 June 2023  <b>General Inquiries</b> Harbin University of Science and Technology Nangang District Harbin, Heilongjiang Province, China 150080  <b>Email address:</b> <a href="mailto:icncfskd2023@hrbust.edu.cn">icncfskd2023@hrbust.edu.cn</a>  <b>Contact:</b> Lili Liang <b>Mobile:</b> +86-15348315772

Prospective authors are invited to submit manuscripts written in English via the online submission system. All submissions will be peer-reviewed by experts in the field based on originality, significance, quality and clarity. Submissions imply that the papers have not been submitted elsewhere and will not be submitted elsewhere for publications before the review decisions of this conference.

