

# Journal of Artificial Intelligence and Soft Computing Research

## Special Issue on Neurodynamic System Analysis and Optimization with Applications

### Call for Papers

In the past years, a significant amount of research on neurodynamic systems has been well developed. Among them, a lot of topics have inspired researchers' interests, such as Neurodynamic models of recurrent neural networks, neurodynamic optimization and control, collective neurodynamic systems, multi-agent systems, etc. As parallel computing units, neurodynamic systems can be used for real-time optimization, which have wide applications in science and engineering, such as robot control, signal processing, machine learning, and planning and decision making. Recently, with the development of artificial intelligence in big data, machine learning and related areas, the size and complexity of modern datasets are increasing explosively. In particular, for large-scale data in optimization computing, the collective technique has been developed for distributed/decentralized computing. Moreover, the multi-agent systems have brought much attention to researchers for distributed optimization with wide applications including source localization, power control, sensor networks, smart grid, regression of distributed data, and so on.

The main focus of this special issue will be on the new and existing models of neurodynamic systems with their applications in optimization and engineering problems. The special issue will become an international forum for researchers to present the most recent developments and ideas in the related fields. The potential topics include, but are not limited to:

- Neurodynamic system and analysis
- Neurodynamic optimization
- Collective neurodynamic system
- Multi-agent system and distributed optimization
- Recurrent neural network
- Intelligent optimization system and control
- Distributed optimization with application to engineering

Before submission authors should carefully read over the journal's author guidelines, which are located at <http://jaiscr.eu/ArticleSubmission> and the sample paper in LaTeX can be found at [http://jaiscr.eu/files/JAISCRC\\_sample\\_paper.tex](http://jaiscr.eu/files/JAISCRC_sample_paper.tex). Prospective authors should submit an electronic copy of their complete manuscript through the online submission system <http://jaiscrsystem.jaiscr.eu> according to the following timetable:

Manuscript Due	May 1, 2018
First Round of Review	July 1, 2018
Publication Date	October 1, 2018

### Lead Guest Editor

**Jinde Cao**, School of Mathematics, Southeast University, China; [jdcao@seu.edu.cn](mailto:jdcao@seu.edu.cn)

### Guest Editor

**Qingshan Liu**, School of Automation, Huazhong University of Science and Technology, China; [qslu@hust.edu.cn](mailto:qslu@hust.edu.cn)