

# Call for Papers

Journal of Applied Soft Computing (Indexed by SCIE)

(<http://www.elsevier.com/locate/asoc/>)

Editor-in-Chief: Dr. Rajkumar Roy, Cranfield University, UK

## Special Issue on Soft Computing for Information System Security

### Introduction

Soft computing techniques, such as Fuzzy Logic, Neural Networks, Evolutionary Computing, Rough Sets and other similar techniques, have been proved effective for various applications. Taking neural network for example, a neural network is a network composed of many simple units, while producing intelligent actions according to certain structure, dynamics and learning method. Till now, neural networks have been widely used in various applications, such as machine vision, pattern detection, data segmentation, data mining, adaptive control, information assurance, etc.

Recently, soft computing is widely used in information system for assurance. For example, neural networks are used for intrusion detection or prevention, neural networks or chaos are used to design cryptographic algorithms or content protection schemes, and such techniques as neural networks and evolutionary computing are used for special content tracking in intelligent surveillance. Generally, soft computing based methods obtain better performances in some aspects, which benefit from the intelligent techniques' learning ability. Additionally, intelligent techniques also show some good properties for special content filtering, copyright protection, copy tracing, etc.

This special issue aims to bring together research work in the area of soft computing techniques' applications in information system security, investigate the novel solutions and discuss the future trends in this field.

### Topics

The paper may focus on architecture construction, algorithm designing or hardware implementation. Both review paper and technical paper are expected. The topics include but are not limited to

Intrusion detection or prevention based on soft computing

Content filtering based on soft computing

Cryptographic algorithms based on soft computing

Secret communication based on soft computing

Trusted computing based on soft computing

Copyright protection based on soft computing

Multimedia security based on soft computing

Computer forensics based on soft computing

Intelligent surveillance based on soft computing

Biometric security based on soft computing

Secure data mining based on soft computing

Secure broadcasting system based on soft computing

Secure telecommunication system based on soft computing

Other security issues and applications based on soft computing

Original papers that have not been submitted or published are welcome. Revised version of the best papers presented in the 2009 International Conference on Multimedia Information NEtworking and Security (MINES2009) (<http://liss.whu.edu.cn/mines2009/>) are also invited to this special issue. The revised version must have at least 40% difference from the conference paper.

### **Submission**

The papers in PDF format should be submitted to the Guest Editors. The submission must include the title, abstract of your paper, and the corresponding author's name and affiliation. Further, for MINES 2009 extended papers, the Paper ID must be provided. Concerning the preparation of the manuscript, please refer to the "Instructions for Contributors" page at the journal website, <http://www.elsevier.com/locate/asoc/>. All papers will be rigorously reviewed by at least three reviewers based on the quality: originality, high scientific quality, well organized and clearly written, sufficient support for assertions and conclusion.

### **Important Dates**

Paper Submission deadline: December 31, 2009

First round of review: March 1, 2010

Submission of revised version: April 1, 2010

Acceptance of papers: May 1, 2010

Final manuscript due date: May 31, 2010

### **Guest Editors**

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