

Call for Papers

Mathematical and Computer Modelling Journal

<http://www.elsevier.com/wps/locate/mcm>

Editor-in-Chief: Prof. Ervin Y. Rodin

Special Issue on

Mathematical and Computer Modelling in Information System Security

Introduction

With the development of network technology and information technology, it becomes available to share information at anywhere on anytime. For example, with the convergence between digital TV and mobile network, one can watch TV program on the TV set at home, and continue to watch it over his mobile terminal when he goes out of home. In a word, various information systems are appearing, which enrich our lives, e.g., electronic commerce system, digital government system, remote education system, mobile personal communication system, etc. On the other hand, the enriched information system brings also some threats to the security issues, for example, the confidentiality of sensitive content, the authentication or authorization of user access, the privacy of anonymous users, the copyright of multimedia contents, etc. To construct the countermeasure means, the mathematical or computer models are used, which describe the components' activities and their connections in information systems, e.g., the cryptographic algorithms, secure protocols, content filtering models or fragileness analysis metrics. And, the modeling becomes more and more important and complex with the changes of information system or appearances of new information systems.

This special issue aims to collect high-quality research works on *Mathematical and Computer Modelling in Information and System Security*, including both attacks and countermeasures. It will expose the readership to the latest research results contributed by leading experts, include a number of related topics, demonstrate the pioneer work, investigate the novel solutions and discuss the future trends in this field.

Topics

Submitted papers may focus on theoretical model, computer simulation or the combination of the two, talking about either attacks or countermeasures. Topics of interest include, but are not limited to

- Security of public contents over Internet
- Security of personal information in communication
- Security of value-added contents (e.g., digital goods)
- Security in wired/wireless communication system
- Security in electronic commerce system
- Security in multimedia service system
- Security in database management system

Security in Internet/mobile social networks
Security in online education system
Security in digital government system
Security in terminals or devices
Security in Smart/IC Card or RFID
Security in homeland system

Besides normal submissions, the selected best papers of the following conferences are invited to this special issue:

- The 2nd International Conference on Multimedia Information Networking and Security (MINES 2010), <http://www.ieee-mines.org/>
- The 6th IEEE International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob 2010), <http://conferences.computer.org/WiMob2010>

There should be at least 30% differences between the extended/revised paper and conference paper.

Submission

The submitted papers must be written in English and describe original research which is not published nor currently under review by other journals or conferences. Author guidelines for preparation of manuscript can be found at <http://www.elsevier.com/wps/locate/mcm>. All manuscripts and any supplementary material should be submitted through the online submission system: <http://ees.elsevier.com/mcm/> by selecting the corresponding special issue. All papers will be rigorously reviewed based on their originality, high scientific quality, organization, clarity of writing, and support provided for assertions and conclusion.

Important Dates

Submission deadline:	December 31, 2010
First revision notification:	April 1, 2011
Submission of revised paper:	May 1, 2011
Final acceptance notification:	June 1, 2011
Final manuscript due:	July 1, 2011

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