

Call for chapters in book to be published in " IGI- Global"

Please my dear friends, I hope you will take care about this call for submitting your chapter to the book:

Soft Computing – Based Techniques and Applications for Securing Information,

mentioned below.

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***** **Call for Chapter** *****

Call for Chapters: Soft Computing-Based Techniques and Applications for Securing Information

Editors

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Call for Chapters

Proposals Submission Deadline: April 30, 2015

Full Chapters Due: July 30, 2015

Submission Date: April 1, 2016

Introduction

Soft computing is a term applied to a field within computer science which is characterized by the use of inexact solutions to computationally hard tasks such as the solution of NP-complete problems, for which there is no known algorithm that can compute an exact solution in polynomial time. Soft computing differs from conventional (hard) computing in that, unlike hard computing, it is tolerant of imprecision, uncertainty, partial truth, and approximation. In effect, the role model for soft computing is the human mind. Currently, different soft computing methodologies have been integrated on Cryptology and Information security studies.

Soft Computing Techniques (ANN, FL, GA) will be considered as the sole of the chapters offered to this book. Mainly the Contributions will concentrate on the roles of these techniques in the different topics of Cryptology and Information security, and also in the Hybridity of these techniques and the benefits offered in the solution of different problems and challenges faced in the Cryptology Discipline.

Objective

Soft computing deals with imprecision, uncertainty, partial truth, and approximation to achieve practicability, robustness and low solution cost. As such it forms the basis of a considerable amount of machine learning techniques. Recent trends tend to involve evolutionary and swarm intelligence based algorithms and bio-inspired computation.

Target Audience

Soft Computing Techniques are used in Cryptology (Cryptosystem Design, Cryptanalysis, and Complexity Evaluation of the Designed Cryptosystems). Also these techniques used in different aspects related to Information Security within the Communication or Computer Networks. The main implications of this discipline (Soft Computing) on the Cryptology and the Information Security is very interesting and offers great progress in the different topics of these disciplines.

Recommended Topics

- Cryptanalysis using Genetic Algorithms
- Security Evaluation Genetic Algorithms
- Information Security using fuzzy logic
- Information Security using Artificial Neural Networks
- Information Security using Genetic Algorithms
- Information Security using Tabu Search
- Information Security using Simulated Annealing
- Hybrid Soft computing Techniques in Cryptology and Information Security
- Evolutionary Computation Methods in Cryptology and Information Security
- Data mining for network security
- Intrusion detection systems using fuzzy logic
- Intrusion detection systems using genetic algorithms
- Intrusion detection systems using neural networks
- Intrusion detection systems using machine learning algorithms
- Soft Computing Techniques based performance evaluation of intrusion detection systems

Submission Procedure

Researchers and practitioners are invited to submit on or before **May 30, 2015**, a 2-3 page chapter proposal clearly explaining the mission and concerns of his or her proposed chapter. Authors of accepted proposals will be notified by **June 15, 2015** about the status of their proposals and sent chapter guidelines. Full chapters are expected to be submitted by **June 30, 2015**. All submitted chapters will be reviewed on a double-blind review basis. Contributors may also be requested to serve as reviewers for this project

Publisher

This book is scheduled to be published by IGI Global (formerly Idea Group Inc.), an international academic publisher of the "Information Science Reference" (formerly Idea Group Reference), "Medical Information Science Reference," "Business Science Reference," and "Engineering Science Reference" imprints. IGI Global specializes in publishing

reference books, scholarly journals, and electronic databases featuring academic research on a variety of innovative topic areas including, but not limited to, education, social science, medicine and healthcare, business and management, information science and technology, engineering, public administration, library and information science, media and communication studies, and environmental science. For additional information regarding the publisher, please visit www.igi-global.com. This publication is anticipated to be released in 2016.

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Important Dates

Chapter Proposals Due: **May 30, 2015**

Notification of Acceptance: **May 15, 2015**

Full chapter Submission: **June 30, 2015**

Review Results Returned: **July 30, 2015**

Final Chapter Submission: **August 15, 2015**

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