Call for Book Chapters

Submission deadline: March 30, 2014

Book Chapters for:

Computational Intelligence applications in Modeling and Control

Series Title: Studies in Computational Intelligence by Springer-Verlag, Germany

Book Editors

Asst. Prof. Ahmad Taher Azar, IEEE Member
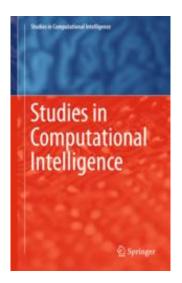
Faculty of Computers and Information,

Benha University, Egypt

Email: ahmad.azar@fci.bu.edu.eg; ahmad_t_azar@ieee.org

SundarapandianVaidyanathan, D.Sc.

Professor and Dean, R & D Centre, Vel Tech University, India

Email: sundarvtu@gmail.com

DESCRIPTION:

The development of computational intelligence (CI) systems was inspired by observable and imitable aspects of intelligent activity of human being and nature. The essence of the systems based on computational intelligence is to process and interpret data of various nature so that that CI is strictly connected with the increase of available data as well as capabilities of their processing, mutually supportive factors. Without them the development of this field would be almost impossible, and its application practically marginal. That is why these techniques have especially developed in recent years. Developed theories of computational intelligence were quickly applied in many fields of engineering, data analysis, forecasting, biomedicine and others. They are used in images and sounds processing and identifying, signals processing, multidimensional data visualization, steering of objects, analysis of lexicographic data, requesting systems in banking, diagnostic systems, expert systems and many other practical implementations.

OBJECTIVE OF THE BOOK

The objective of this book takes a modest attempt to cover the framework of computational intelligence and its applications in a single volume. The book is not only a valuable title on the publishing market, but is also a successful synthesis of computational intelligence techniques in world literature. Several multi-disciplinary applications in Control, Engineering and Information Technology will be discussed inside this volume where CI have excellent potentials for use. This volume will also present a selected collection of contributions on a focused treatment of important elements of Computational Intelligence from International Conference on Control, Engineering & Information Technology (CEIT'14), March 22-25, 2014, Sousse, Tunisia. This book should be

recommended to engineers of various specialties, physicists, mathematicians, information technology specialists, economists and students of those or related specialties. Both novice and expert readers should find this book a useful reference in the field of Computational Intelligence.

TOPICS

Suggested topics include (but are not limited to) the following:

- Artificial neural networks
- Fuzzy logic
- Rough sets
- Neuro-fuzzy approaches
- Evolutionary computing
- Intelligent monitoring and control systems
- Hybrid systems
- Optimization Techniques
- Biomedical Engineering
- Bioinfomatics
- Iterative Learning Control
- Predictive Control
- Process Modeling and Process Control
- Discrete Event and Hybrid Systems
- Adaptive Control
- Control in Education
- Modeling and control of Renewable Energy Systems
- Modeling and Control of Smart Grids and Distributed Generation Systems
- Modeling, Stabilization and Control of Power Systems
- Load Modeling and Forecasting
- System Reliability, Security and Adequacy
- Power Quality
- Power System Economics, Pricing

CHAPTER SUBMISSION AND AUTHOR INFORMATION:

Submitted manuscripts should conform to the standard guidelines of the Springer's book chapter format. Manuscripts must be prepared using Latex or **Word** and according to the Springer's svmlt template that can be downloaded from the (link). **Manuscripts that do not follow the formatting rules will be ignored**. Prospective authors should send their manuscripts electronically to the following email addresses: ahmad_t_azar@ieee.org, with cc-ing to sundarvtu@gmail.com, with the subject title as: "Computational *Intelligence applications in Modeling and Control- Book Chapter*". Submitted manuscripts will be refereed by at least two independent and expert reviewers for quality, correctness, originality, and relevance. The accepted contributions will be published in Studies in Computational Intelligence by Springer-Verlag, Germany.

Springer

IMPORTANT DATES

*November 30, 2013***:** Proposal Submission Deadline
*December 15, 2013***:** Notification of Acceptance
*March 30, 2014***:** Full Chapter Submission
May 30, 2014: Review Results Returned
June 30, 2014: Final Chapter Submission
July 15, 2014: Final Acceptance Notifications:

Editorial Advisory Board Members:

- **Prof. Valentina E. Balas**University "Aurel Vlaicu" Arad, Romania
- **Prof. Tsung-Chih Lin** Feng-Chia University, Taichung, Taiwan
- **Prof. Magdi S. Mahmoud**   Distributed Control Research Group, Saudi Arabia
- **Dr. Mehdi Roopaei** University of Texas at San Antonio, USA
- **Prof. Adel M. Alimi,** University of Sfax, Tunisia
- **Dr. Engin Yesil**   Istanbul Technical University, Turkey
- **Prof. Mohamed Mostafa Hassan** Cairo University, Egypt
- **Dr. Dongya Zhao**   China University of Petroleum, China
- **Dr. Sezai TOKAT** Pamukkale University, Turkey
- **Prof. Chang-Hua Lien**   National Kaohsiung Marine University, Taiwan
- **Dr. Christos K. Volos**   Hellenic Army Academy, Greece
- **Dr. Babatunde Akinwale Idowu**   Lagos State University, Nigeria
- **Dr. Chalee Vorakulpipat** National Electronics and Computer Technology Centre (NECT), Thailand
- **Dr. Kais Bouallegue**   Higher Institute of Applied Science and Technology, Tunisia

Book Editors

Ahmad Taher Azar, PhD, IEEE Member

Assistant Professor,

Faculty of Computers and Information, Benha University, Egypt

Email: ahmad_t_azar@ieee.org, ahmad_t_azar@yahoo.com, ahmad.t.azar@gmail.com

SundarapandianVaidyanathan, D.Sc.

Professor and Dean, R & D Centre, Vel Tech University, India

Email: sundarvtu@gmail.com