

Invitation for Book Chapters

Cognitive Infocommunications and Computing

Topics in Intelligent Engineering and Informatics, Springer

Editors: R. Klempous, J. Nikodem and P. Baranyi

Scope

This book is planned for scientist who would like to contribute to the recent scientific area on cognitive infocommunications primary focusing on the inseparable combo of human and infocommunications.

An *intelligent engineering* <http://www.springer.com/series/10188> is an engineering that emulates some aspects of intelligence exhibited by nature. These include learning, adaptability, robustness across problem domains, improving efficiency (over time and/or space), information compression (data to knowledge), management of uncertain and imprecise information, extrapolated reasoning.

Cognitive infocommunications investigates the link between the research areas of infocommunications and cognitive sciences, as well as the various engineering applications which have emerged as the synergic combination of these sciences. The primary goal of *cognitive infocommunications* is to provide a systematic view of how cognitive processes can co-evolve with infocommunications devices so that the capabilities of the human brain may not only be extended through these devices, irrespective of geographical distance, but may also interact with the capabilities of any artificially cognitive system. This merging and extension of cognitive capabilities is targeted towards engineering applications in which artificial and/or natural cognitive systems are enabled to work together more effectively.

The intent of this book is to cover the state-of-the-art of the research and development in various aspects of CI. It will concentrate on the theory, applications, and design, as embedded in the fields of engineering, resulting in *intelligent engineering systems*, as well as the methodologies behind them.

We strongly hope that this book will become a valuable reference for researchers, students and professionals from engineering and computer science, in particular in the areas of computational intelligence, fuzzy logic, computer vision, web intelligence and data mining.

Schedule

Full chapter submission due:	March 03, 2017
Referee's comments:	May 13, 2017
Final revised chapter submission due:	June 03, 2017
Expected publication:	September 2017

Submission

- Full chapters are expected by March 3, 2017. All submitted chapters will be reviewed on a blind review basis and the review reports will be sent to the authors by May 13, 2017.
- Each chapter may have a length of 20-25 pages according to the Springer's manuscript layout: <https://www.springer.com/de/authors-editors/book-authors-editors/manuscript-preparation/5636#c3324> (LaTeX template). Instructions for Authors can be reached from this page as well.
- We strongly encourage you to use LaTeX together with the corresponding Springer LaTeX-macro packages. **We cannot accept chapters prepared in MS Word** or similar word processors.
- Just click on the link “contributed books” within “LaTeX template”. This starts a downloading process. Then the compressed file “contributed+books.zip” can be downloaded. It contains all styles, templates and instructions for preparing your chapter.
- The final revised chapters are expected by June 03, 2017.
- The book is scheduled to be published by Springer around September 2017.

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