



# Concurrency and Computation: Practice and Experience

([http://onlinelibrary.wiley.com/journal/10.1002/\(ISSN\)1532-0634](http://onlinelibrary.wiley.com/journal/10.1002/(ISSN)1532-0634))

## CogInnov2018 SPECIAL ISSUE ON

### Cognitive and innovative computation paradigms for big data and cloud computing applications

#### Overview:

In advanced distributed computer systems one of the most important approaches for big data analysis and Cloud information management are innovative analysis protocols and cognitive system application. Such solutions should facilitate not only to perform the big data analytics tasks, but also intelligent and secure data and services management, especially using innovative machine and computational intelligence approaches. Presently there is a great demand to efficiently store and semantically analyze a great amount of information, originated from different sources, as well as manage such information in secure manner for different application in ubiquitous and mobile computing. Possibility of creation and development of such computation technologies will be connected with introduction of new computing paradigms and information systems, which allow to combine cognitive informatics with security areas, as well as big data and cloud computing technologies. These subjects, as well as others, connected with innovative computational models for security protocols, and distributed data analysis will form the subject of *CogInnov2018* Special Issue. Selected papers from the track on Cognitive and Neural Computing with Application at AINA 2018 Conference <http://voyager.ce.fit.ac.jp/conf/aina/2018/index.php> , so will be invited as well as an open call.

#### Topics

Topics of interest include, but are not limited to, the following scope:

- New computational approaches for Big data and Cloud security
- Cognitive information systems with application
- Personalized cryptography and biometrics security
- Ambient intelligence for Big data analysis
- Innovative security and privacy protocols
- Security of Cognitive Information systems
- Visual cryptography and secret data management
- Computational intelligence in services management
- Security and privacy for mobile and distributed systems
- Visual and cognitive CAPTCHA
- Advanced steganography systems
- Behavioral features in security solutions
- Cognitive approaches for Big data analytics

#### Important Dates:

- Manuscript submission deadline: September 1, 2018
- Notification of acceptance/revision/rejection: December 1, 2018
- Submission of final revised paper: February 1, 2019
- Publication of special issue (tentative): middle 2019

## Papers targeted

**Quality of papers and relevance to the special volume's topic are the most important criteria for accepting contributions. Each selected paper must be extended by more than 50% of its content upon first submission of similar papers.**

Each paper submitted for this Special Issue will go through a rigorous peer-review process by at least two international researchers.

Manuscripts must follow these guidelines:

- Submit at Manuscript central (<https://mc.manuscriptcentral.com/cpe>) as special issue: ***CogInnov2018***
- Submissions must be prepared for publication according to the journal submission guidelines: <http://www.cc-pe.net/journalinfo/authors.html#guidelines>

## Guest Editors:

- **Prof. Lidia Ogiela** (leading Guest Editor), AGH University of Science and Technology, Krakow, Poland, [logiela@agh.edu.pl](mailto:logiela@agh.edu.pl)