



The 17th International Conference on Intelligent Software Methodologies, Tools and Techniques (SOMET 2018)

Granada, Spain, Sept. 26-28, 2018

Special Session:

Knowledge Science and Intelligent Computing (KSIC)

<http://secaba.ugr.es/SOMET2018/#sessions>

Introduction

Nowadays, the dependability on computers and its technologies on daily life has been increased enormously. The ability of systems connectivity and communication between them intelligently and securely is a big challenge. Knowledge Science has emerged from the practical application of decades of research into artificial intelligence and intelligent systems. In particular, the methods in knowledge engineering refer to the development of systems that use knowledge, rather than data, to solve many novel computing problems. This is achieved by the application of computing techniques, closely associated with human cognitive processes, for transforming data into knowledge.

Besides that, the intelligent computing technology is the method for processing the problems in practice, especially in knowledge science. It includes a range of techniques, such as: Artificial Intelligence, Pattern Recognition, Evolutionary Computing, Neuroscience & Bioscience, Soft Computing, IoT, Big Data.

This special session aims to bring together professionals, engineers, academics and industrial people with all these different backgrounds to discuss and exchange new ideas and the latest achievements in developing the knowledge science and intelligent computing systems.

Relevant topics include, but are not limited to, the following:

- Knowledge Representation and Reasoning
- Belief revision and update
- Knowledge-based software engineering
- Knowledge-based systems in life sciences
- Intelligent system
- Knowledge engineering application
- Ontological engineering
- Logics of knowledge; formal analysis of knowledge; reasoning about knowledge
- Cognitive foundations of knowledge
- Intelligent Information Systems
- Distributed and Parallel Processing.
- Aspects of Data Mining.
- Bio-informatics
- Knowledge extraction from text, video, signals and images.
- Search and Mining of variety of data including scientific and engineering, social, sensor/IoT/IOE.
- Computational Modeling
- Mobility and Big Data

Session Organizers

- **Nhon V. Do**, *University of Information Technology (UIT), VNU-HCM, Vietnam*
- **Ali Selamat**, *Universiti of Teknologi Malaysia (UTM), Malaysia*

Important Dates

- **Paper submission: March 31, 2018**
- Camera Ready: **June 15, 2018**
- Registration: **June 2 – July 4, 2018**

Paper Submission

The papers of this session will be printed in proceeding of main conference. The Proceedings of the conference will be published as a book by *IOS international publisher* in series: *Frontiers in Artificial Intelligence and Applications*, that is indexed by SCOPUS.

- Sign in: <https://cmt3.research.microsoft.com/SOMET2018>
- Select Special Session: **Knowledge Science and Intelligent Computing**

Papers must be written by using the IOS format **up to 14 A4 pages** for Regular papers, and up to 10 pages for Short papers. The submissions will be peer-reviewed for originality and scientific quality. (IOS format: <https://www.iospress.nl/service/authors/latex-and-word-tools-for-book-authors/>)

Contact: Hien D. Nguyen, UIT, Vietnam (hiennd@uit.edu.vn)
Nhon V. Do, UIT, Vietnam (nhondv@uit.edu.vn)