



# The 21<sup>st</sup> International Conference on Intelligent Software Methodologies, Tools and Techniques (SOMET 2022)

Kitakyushu, Japan  
Sept. 20-22, 2022



The 5<sup>th</sup> Special Session:

## Knowledge Science and Intelligent Computing (KSIC)

<https://www.somet2022.com/>

### 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 is the emerging aspect of artificial intelligence for applying the research results into the real-world applications, especially intelligent systems. In particular, the methods in knowledge engineering refer to the development of intelligent systems, which 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, the intelligent computing technology is the method to solve 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, Robotics 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.
- Knowledge engineering application.
- Ontological engineering.
- Logics of knowledge; formal analysis of knowledge; reasoning about knowledge.
- Cognitive foundations of knowledge.
- Intelligent system.
- Intelligent Information Systems.
- Robotics and Cybernetics.
- 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**, *Hong Bang International University, Vietnam*
- **Ali Selamat**, *Universiti of Teknologi Malaysia (UTM), Malaysia*

### Important Dates

- **Paper submission: March 20, 2022**
- Final Notification: May 18, 2022
- Camera Ready: June 18, 2022

### 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*. This series is indexed in **SCOPUS** and selected by the Elsevier databases coverage.

- Sign in: <https://cmt3.research.microsoft.com/SOMET2022> Select track: KSIC
- 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/>)

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