

# Knowledge-Based and Intelligent Information & Engineering Systems

**KES2018**3<sup>rd</sup> – 5<sup>th</sup> September 2018, Belgrade, Serbia<http://kes2018.kesinternational.org/>

## CELEBRATING 22 YEARS OF KES CONFERENCES

KES International is pleased to invite contributions for the 22<sup>nd</sup> annual conference in the series, KES2018, taking place in the historic capital city of Belgrade in Serbia. KES2018 will consist of keynote talks, oral and poster presentations, invited sessions and workshops, on the applications and theory of intelligent systems and related areas. Offering the opportunity to get a paper published in the open-access journal, Elsevier Procedia Computer Science, submitted for indexing in Web of Science, EI and Scopus, KES2018 will provide an excellent forum for the presentation of interesting new research results and discussion about them alongside an exciting social programme.

## SCOPE OF THE CONFERENCE

### GENERIC TOPICS OF INTEREST

Automated Design and Configuration of Sensory Systems, Self-x principles in Intelligent Engineering Systems, Knowledge-Based Systems, Expert Systems, Cognitive Systems, Neural Networks, Artificial Immune Systems, Fuzzy Techniques and Systems, Genetic Algorithms and Evolutionary Computing, Hybrid Intelligent Systems, Multi-Agent Systems, Knowledge Discovery and Data Mining, Data Analysis and Pattern Recognition, Machine Learning, Bayesian Networks, Knowledge Representation and Management, Computational neuroscience, Planning, Spatial & Temporal Reasoning, Knowledge Acquisition, Semantic-Based Systems.

### INTELLIGENT APPLICATIONS

Multi-Sensor Information Systems, Dimensionality Reduction and Interactive Multivariate Data Visualization/Analysis, Organisation Memories, Industrial Control, Monitoring and Planning, Intelligent Web-based Systems, Fault Diagnosis, Robotics, Image Processing, Machine & Computer Vision, Medical & Diagnostic Systems, Financial & Stock Market Monitoring and Prediction, Speech Processing and Synthesis, Natural Language Processing, Environmental Monitoring, Power Electronics & Drives, High Voltage Systems, Engine Control and Vehicle Applications, Signal and Time Series Processing, Wavelets.

### EMERGENT INTELLIGENT TECHNOLOGIES

Pervasive Computing, Intelligent Web Personalization, Ubiquitous Computing, Context-aware and Affective (Emotional) Computing, Mobile Computing and Systems, Business Intelligence Systems, Human-centered Computing, Intelligent User Interfaces, Cognitive Networks, User profiling, Evolvable Hardware, DNA Computing, Immunocomputing, Artificial Life, Bioinformatics, Micro array Data Analysis, Intelligent Tutoring Systems, E-commerce/E-business and E-learning, Semantic Web, Intelligent Web Mining & Applications, Virtual Reality & Multi-Media Intelligent Information Systems, Blind Source Separation, Machine & Computer Vision, Virtual Reality & Multi-Media Intelligent Information Systems, Image classifiers, Semantic Visualization, Semantic abstraction of the PLC/PLM, Machine learning, Image feature extraction, multimedia retrieval, multimedia annotation. Semantic annotation of images and videos, parallel computing and GPU, Semantic enhanced mockups and simulation models.

## DEADLINES: General Sessions

Submission of papers: **23 March 2018**Notification of acceptance: **27 April 2018**Final paper publication files to be received by: **25 May 2018**

## CALL FOR CONTRIBUTIONS

### CALL FOR PAPERS

Contributions are invited from prospective authors with interests in the indicated conference topics and related areas of application. All contributions should be high quality, original and not published elsewhere or submitted for publication during the review period. Please see the web site for details of the required paper format. Papers will be thoroughly reviewed by the International Program Committee, and may be accepted for oral or poster presentation. Full papers accepted for the conference proceedings will be published in **Elsevier's Procedia Computer Science open-access** journal, available in ScienceDirect and submitted to be indexed/abstracted in **CPCi (ISI conferences and part of the Web of Science), Engineering Index (EI) and Scopus.**



### CALL FOR INVITED SESSIONS AND WORKSHOPS

We invite researchers on new topics and fresh ideas in the field to organise invited sessions, or parallel workshops of a half or full day, gathering a minimum of six papers. Contact the Conference Secretariat enclosing the title and content of the proposed session, and tentatively involved research teams. We also welcome suggestions for other activities that will appeal to our delegates.

### INTELLIGENT SYSTEMS RESEARCH PROGRESS WORKSHOP (ISRWP)

ISRWP is a one-day workshop taking place during the conference. Work-in-progress papers on all aspects of intelligent systems are invited from research students (doctoral and masters students) more senior researchers, members of faculty and anyone wishing to bring their work to attention of the research community. Accepted papers will be presented in the dedicated workshop session and published in 'Advances in Smart Systems Research' in the KES Open Access Library (KOALA), making them widely available to the research community. Workshop papers are not included in the main conference Elsevier Procedia proceedings.

## DEADLINES: Invited Sessions and Workshops

Submission of Papers: **Chair sets deadlines**Notification of Acceptance: **Chair sets deadlines**Final paper publication files to be received by: **25 May 2018**

**All authors must register & pay the conference fee by the early registration date of 1 JUNE 2018 for their papers to appear in the proceedings.**

*All deadlines and other details are provisional at the stage.*

## ORGANISATION

### KES2018 Honorary Chair

Lakhmi C. Jain, University of Canberra, Australia

Zoran Popović, Serbian Academy of Sciences and Arts, Serbia

### KES2018 General Chairs

Robert J. Howlett, Bournemouth University, UK

Dejan Popović, University of Belgrade, Serbia

Slobodan Vukosavić, University of Belgrade, Serbia

### KES2018 General Track Programme Chair

Carlos Toro, ARTC (A\*Star) Research Scientist - Lead Architect  
Factory of the Future

### KES2018 Invited Sessions Programme Chair

Yulia Hicks, Cardiff University, UK