



International

*Innovation in Knowledge Based and Intelligent
Engineering Systems*



INVITED SESSION SUMMARY

Title of Session: Knowledge engineering and data mining in the creation of intelligent applications

Name of Chair:

Assoc Prof. Agnieszka Nowak-Brzezińska

Dr. Agnieszka Konys

Details of Session:

Extracting knowledge from data is a fundamental process in creating intelligent information retrieval systems, decision support, and knowledge management. Among the welcome topics of work, we seek research on data mining methods, multidimensional data analysis, supervised and unsupervised learning methods, methods of knowledge base management, language ontologies, ontology learning, and others. We encourage you to present new algorithms and work on practical solutions, i.e., applications/systems presenting the actually created applications of the proposed research achievements.

The Special Issue covers the entire knowledge engineering pipeline: From data acquisition and data mining to knowledge extraction and exploitation. For this reason, we have conceived this Invited Session „Knowledge engineering and data mining in the creation of intelligent applications”, whose purpose is to gather the many researchers operating in the field to contribute to a collective effort in understanding the trends and future questions in the field of knowledge engineering and data mining. Topics include, but are not limited to:

- knowledge acquisition and engineering;
- intelligent applications for small business or industry
- intelligent application architecture
- knowledge representation for intelligent applications
- data mining methods used in intelligent applications
- strategies, tools and techniques for incorporating knowledge engineering and data mining in applications
- applications frameworks for knowledge engineering and data mining
- testing, validation and verification of knowledge engineering and data mining applications
- big knowledge analytics;
- data mining, knowledge discovery, and machine learning;
- knowledge modeling and processing;
- knowledge acquisition and engineering;
- query and natural language processing;
- data and information modeling;
- data and information semantics;
- data intensive applications;
- knowledge representation and reasoning;

- decision support systems;
- rules mining;
- outliers mining;
- semantic web data and linked data;
- ontologies and controlled vocabularies;
- data acquisition;
- multidimensional data analysis;
- supervised and unsupervised learning methods

IMPORTANT DATES:

Conference date: KES-2023: 6-8th September

- Paper submission deadline: **2 April 2023**
- Notification of Acceptance: 8 May 2023
- Camera ready: 29 May 2023

Publication:

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 Web of Science), Engineering Index, and Scopus.

KES Conference is indexed in CORE (cat. B) and MNiE List in Poland (item 841, 70 points).

<http://kes2023.kesinternational.org/>

27th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems

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