



Invited Session on Knowledge and Data Engineering in Medicine and Health Care at



23rd International Conference on Knowledge-Based and Intelligent Information & Engineering Systems
September 4-6, 2019, Budapest, Hungary



Program Chairs of IS19:

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Important dates:

April 20, 2019: Submission deadline

May 16, 2019: Acceptance notification

June 3, 2019: Camera-ready due (via PROSE system)

Attention!! Hard deadline - will not be extended

June 3, 2019: Early Registration Deadline
Every paper must have at least one author who has registered for the conference with payment by the Early Registration Deadline for the paper to appear in the proceedings.

September 4, 5 or 6, 2019: Session IS19 at KES2019 conference



This session provides an interdisciplinary forum for researchers and developers to present and discuss latest advances in research work as well as prototyped or fielded systems of applications of knowledge engineering in the different field of medicine. The session will cover the whole range of theoretical and practical aspects and technologies based on knowledge and data engineering in the medical domain and aims to bring together specialists for exchanging ideas and promote fruitful discussions.

The topics of interest include, but are NOT limited to:

- Knowledge Management and Analysis of Medical Data
- Ontologies and Modelling of Medical Information
- Computational Models of Cognition
- Social Aspects of Knowledge Engineering in Medicine and Health Care.
- Mining Gene Databases and Biological Databases
- Feature Learning, Grouping, Discretization, Selection and Transformation
- Frequent Pattern Mining
- High-Content Analysis of Microscopic Images in Medicine, Biotechnology and Chemistry
- Time Series and Sequential Pattern Mining in Medical Data
- Mass Data Analysis in Medicine, Dietetics, Drug Discovery and System Biology
- Text Mining in Electronic Medical Records
- Information Fusion and Knowledge Transfer
- Data Quality Assessment and Improvement
- Visualization of Disease Models, Prescriptions Drugs and Interactions, etc.
- Privacy and Security Issues, Fraud Detection in Healthcare Systems

Submission:

Page formatting: The guide length for full papers is 8 to 10 pages (maximum). The paper format as a PDF document is available [here](#). Please consult important FAQs about document preparation to be found [here](#). An MS Word template is available [here](#).

A LaTeX template is available [here](#).

For a paper to be published in the Procedia proceedings

- no changes may be made to the Procedia template and the instructions must be followed exactly
- the maximum length of 10 pages must not be exceeded
- the paper must be presented at the conference

It is the author's responsibility to ensure that their paper does not contain any errors. Also, kindly note that Elsevier will publish what they receive so it is important that the authors submit the final version of their papers. Proofs will not be sent to authors at any time during production. Submissions are invited on previously unpublished research.

Review

All submissions will be reviewed on the basis of relevance, originality, significance, soundness and clarity. At least two referees will review each submission independently.

Publication

Full papers will be reviewed by the IPC and if accepted and presented, they 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.

Authors of selected papers may be invited to submit extended versions of their papers for publication as full journal papers, for example in the KES Journal or other journals.

<http://kes2019.kesinternational.org>