

12th International Conference on Knowledge-Based Intelligent Information & Engineering Systems KES2008

Main Conference, 3,4 and 5 September 2008

Zagreb, Croatia

<http://kes2008.kesinternational.org/>

Call for Papers :

Invited Session

on

Biomedical Informatics: Intelligent information management from Nanomedicine to Public Health

Background: Over the last few years, researchers have realized that many dimensions of biology and medicine aim to understand and model the informational mechanisms that support more precise clinical diagnostic, prognostic and therapeutic procedures. As long as data grows exponentially, novel Biomedical Informatics approaches and tools are needed to manage the available data.

After the Human Genome was completed and other “omics” technologies began to proliferate and have an impact, biomedical scientists and practitioners proposed to use the new wealth of biological information, such as SNPs, microarray data, biomarkers, with their ever-increasing data sets into clinical practice. Researchers have expressed the hope that new findings could have immediate clinical application, leading to new visions of medicine, such as “genomic medicine” or “personalized medicine”.

Furthermore, such integrative research, ranging from systems biology to public health can be extended in the forthcoming years by new techniques at the “nano” level, aiming to develop new approaches for diagnosis, therapy, prognosis and patient management. In such new scenarios, new computational methods are needed.

Main topics:

- Biomedical informatics
- Bioinformatics
- Personalized medicine
- Medical databases and information systems
- Ontologies in biomedicina
- Translational informatics in biomedicine
- Methods and systems for database integration
- Grid-based approaches for biomedical data processing and management

- Intelligent methods and tools for biomedical data analysis and interpretation
- Information retrieval
- WWW and text mining
- Knowledge discovery and data mining
- Decision support systems
- Nanoinformatics and nanomedicine

Instructions for Authors :

Papers must correspond to the KES2008 conference format requirements detailed in the Paper Submission, on the Conference Web Site:

<http://kes2008.kesinternational.org/>

All accepted papers must be presented by one of the authors, who must register.

Publication :

Papers are invited from prospective authors with interests on the session topics and related areas of application. All contributions should be original and not published elsewhere or intended to be published during the review period.

All accepted papers will appear in the conference proceedings published by [Springer-Verlag](#) in **Lecture Notes in AI** as part of the [LNCS/LNAI](#) series. Please refer to the Springer-Verlag web site for directions on the [Paper Format](#) which must be strictly followed. The limit for page number is **8**. Extended versions of selected papers will be considered for publication in

the *International Journal of Reasoning-Based Intelligent Systems* by InderScience Publishers, UK :

www.inderscience.com/ijris/

and

the *International Journal of Knowledge-Based and Intelligent Engineering Systems* by IOS Press:

<http://www.kesinternational.org/journal/>

All papers for KES2008 conference, intended both for General Sessions and Invited Sessions, must be submitted and reviewed using the PROSE (<http://www.prosemanager.com>) software system. Instruction and a link to PROSE will be provided on the conference web site

<http://kes2008.kesinternational.org/>

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Important Date (tentative) :

Deadline for manuscript submission by the PROSE system: **April 8, 2008.**

Notification of acceptance to authors by the PROSE system : **April 22, 2008.**

Final camera-ready paper submission to the PROSE system : **May 9, 2008.**

Session Chair: Prof. Victor Maojo (Universidad Politecnica de Madrid, Spain)

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