WORKSHOP

Intelligent Data Analysis with Applications in Information Retrieval and Machine Learning (IDAIR)

Organized in conjunction with

KES IIMSS 2013
Sesimbra, Portugal
26 - 28 June 2013

Organized by
Computers and Information Technology Department, Faculty of Automation,
Computers and Electronics,
University of Craiova, Romania
and
"Multimedia Applications Development" Research Centre

Title of Workshop:
Intelligent Data Analysis with Applications in Information Retrieval and Machine Learning (IDAIR)

Background and Goals:
Intelligent Data Analysis is one of the most interesting research areas in Computing and more specifically with great impact in Computer Science, Information Systems, Information Technology and Software Engineering.

Building Intelligent Data Analysis Systems requires integration of Machine Learning, Information Retrieval, Data Mining algorithms into specific application domains. The main issues are to design, develop and implement effective Intelligent Data Analysis Systems that improve currently existing applications. Such systems mainly rely upon activity data produced by the system itself and on a custom designed data analysis process that produces desired knowledge according with certain constraints set up by a domain expert.

We want to bring together researchers from diverse disciplines and we want to achieve a balance of presentations from the more theoretical side (both statistics and computer science) as well as more application oriented areas that illustrate how these techniques can be used in practice. The field of software engineering turns out to be a fertile ground where many software development and maintenance tasks could be formulated as learning problems and approached in terms of learning algorithms.

The session targets research efforts that have as outcome progress in building Intelligent Systems in any application domains such as Image and Video Processing, Multimedia Systems, E-Learning, E-Commerce, E-Society Applications, Medical Applications.

Any data analysis process, which analyse data generated by any information system, may have as output an Intelligent System. Adaptation of existing or development of new data analysis processes that use techniques from areas of Artificial Intelligence – Intelligent Systems such as statistics, machine learning, information retrieval, data mining, recommender systems or scientific computing is welcomed.

Call for Papers
The session targets innovative work on presenting Intelligent Systems, systems that are self-adaptive, systems that improve their own performance, or systems that use state of the art data
The aim of the workshop is to provide an internationally respected forum for scientific research in the technologies and applications of intelligent and interactive multimedia systems and services. The workshop will be co-located with the 5-th KES International Conference on Intelligent Decision Technologies, IDT-13.

We welcome presentation of innovative applications, theoretical contributions or empirical studies. There are highly appreciated submissions that bridge the gap between intelligent data analysis and other fields of research or application domains.

The IDAIR 2012 Workshop welcomes submissions of original papers concerning all aspects of Intelligent Systems domain ranging from concepts and theoretical developments to advanced technologies and innovative applications.

Suggested topics include, but are not limited to, the following:

- Intelligent Information Systems in e-Business and e-Commerce
- Intelligent Information Systems in e-Health
- e-Learning and Information Systems
- Expert systems
- Web and Knowledge-Based Information Systems
- Medical Informatics and Biomedical Engineering
- Educational Data Mining
- Visualization and Data Mining
- Machine learning and information retrieval
- Machine learning in industrial and engineering applications
- Knowledge discovery in databases
- Information Systems in Multimedia
- Intelligent Profiling and Personalisation
- Best practices for adaptation of Intelligent Data Analysis to educational context
- Modelling and evaluation of Intelligent Data Analysis
- Accessibility and Computers
- Human-Computer Interaction and Information Retrieval
- Recommender Systems
- Qualitative data analysis and measurement
- Agent and Multi-Agent Systems

Name of Chairs:
Dumitru Dan Burdescu, Marian Cristian Mihăescu

Steering Committee:
Mirjana Ivanovic, Faculty of Science, Serbia
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Jacek Zurada, University of Louisville, USA
Rajkumar Kannan, Bishop Heber College, India
Carl James Debono, University of Malta
## Instructions for Authors

Papers must correspond to the requirements detailed in the Instructions to Authors which will be placed on the Conference Web Site, [http://iimss-13.kesinternational.org/](http://iimss-13.kesinternational.org/)

All papers must be presented by one of the authors, who must be registered in advance. Authors must submit paper through PROSE online paper submission system [http://iimss-13.kesinternational.org/prose.php](http://iimss-13.kesinternational.org/prose.php)

Accepted papers will be published by Springer Verlag, as book chapters in a volume of the KES / Springer series in Smart Innovation, Systems and Technology, indexed in various places. Please contact the publisher for more information about this.

## Paper Submission and Publication

Accepted papers will be published by prestigious publishing house, Springer Verlag, as book chapters in a volume of the KES- Springer Smart Innovations, Systems and technologies series and indexed in ISI conference publications, Elsevier's Scopus, INSPEC, etc. By submitting a paper you undertake that if it is accepted, you will register for the conference, pay the fee, attend the conference and present the paper.

By submitting a paper you also indicate that you accept the conference Terms and Conditions, available by request or on the conference web site, and that you agree to abide by them.

Each accepted paper will be published as a book chapter hence authors should follow the Springer instructions as if preparing a single chapter for book. Ignore the section in the Springer instructions entitled "Manuscript Submission to Springer", as authors will submit individual chapters and these will be assembled into a composite manuscript which the conference organisers will submit to Springer.

Papers should not exceed 10 pages in Springer format. Papers longer than this will be subject to an additional charge.

Papers must be uploaded onto the PROSE online submission and review system accessed from the main menu of 6th International Conference on Intelligent Interactive Multimedia Systems and
Services. IIMSS-2013.
- Authors should submit draft papers (as Postscript, PDF of MSWord file).
- The total length of a paper should not exceed 10 pages (Springer format).
- Papers will be refereed and accepted on the basis of their scientific merit and relevance to the workshop.
- Extended version of selected best papers will be invited to submit to journal special issues we are organising

Important Dates
- Submission of Papers: 6 January 2013
- Notification of Acceptance: 24 February 2013
- Upload of Final Publication Files: 17 March 2013
(Publication files are the wordprocessor source in MS Word)

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