



CALL FOR PAPERS

DMIN'15

The 2015 International Conference on Data Mining

Date and Location: July 27-30, 2015

Monte Carlo Resort & Casino, Las Vegas, Nevada, USA

<http://www.dmin-2015.com>

<http://www.world-academy-of-science.org>

You are invited to submit a full paper for consideration. All accepted papers will be published in the DMIN conference proceedings (in printed book form; later, the proceedings will also be accessible online). Those interested in proposing workshops/sessions, should refer to the relevant sections that appear below.

SCOPE: Submitted papers should be related to Data Mining, Data Science, Machine Learning and similar topics.

Topics of interest include, but are not limited to, the following:

- Data Mining/Machine Learning Tasks
 - Regression/Classification
 - Time series forecasting
 - Segmentation/Clustering/Association
 - Deviation and outlier detection
 - Explorative and visual data mining
 - Web mining
 - Mining text and semi-structured data
 - Temporal and spatial data mining
 - Multimedia mining (audio/video)
 - Mining „big data“
 - Others
- Data Mining/Machine Learning Algorithms
 - Artificial neural networks
 - Fuzzy logic and rough sets
 - Decision trees/rule learners
 - Support vector machines
 - Evolutionary computation/meta heuristics
 - Statistical methods
 - Collaborative filtering
 - Case based reasoning
 - Link and sequence analysis
 - Ensembles/committee approaches
 - Others

- Data Mining Integration
 - Mining large scale data/big data
 - Distributed and grid based data mining
 - Data and knowledge representation
 - Data warehousing and OLAP integration
 - Integration of prior/domain knowledge
 - Metadata and ontologies
 - Agent technologies for data mining
 - Legal and social aspects of data mining
 - Others
- Data Mining Process
 - Data cleaning and preparation
 - Feature selection and transformation
 - Attribute discretisation and encoding
 - Sampling and rebalancing
 - Missing value imputation
 - Model selection/assessment and comparison
 - Induction principles
 - Model interpretation
 - Others
- Data Mining Applications
 - Bioinformatics/Medicine
 - Business/Industrial
 - Engineering
 - Military/Security
 - Social science
 - Others

We particularly encourage submissions of industrial applications and case studies from practitioners. These will not be evaluated using solely theoretical research criteria, but will take general interest and presentation into consideration.

- Data Mining Software
- Alternative and additional examples of possible topics include:

Data Mining for Business Intelligence; Emerging technologies in data mining; Computational performance issues in data mining; Data mining in usability; Advanced prediction modelling using data mining; Data mining and national security; Data mining tools; Data analysis; Data preparation techniques (selection, transformation, and preprocessing); Information extraction methodologies; Clustering algorithms used in data mining; Genetic algorithms and categorization techniques used in data mining; Data and information integration; Microarray design and analysis; Privacy-preserving data mining; Active data mining; Statistical methods used in data mining; Multidimensional data; Automatic data cleaning; Data visualization; Theory and practice (knowledge representation and discovery); Knowledge Discovery in Databases (KDD); Uncertainty management; Data reduction methods; Data engineering; Content mining; Indexing schemes; Information retrieval; Metadata use and management; Multidimensional query languages and query; Multimedia information systems; Search engine query processing; Pattern mining; Applications (examples: data mining in education, marketing, finance and financial services, business applications, medicine, bioinformatics, biological sciences, science and technology, industry and government, ...).

PROPOSAL FOR ORGANIZING WORKSHOPS/SESSIONS:

Each conference is composed of a number of tracks. A track can be a session, a workshop, or a symposium. A session will have at least 6 papers; a workshop at least 12 papers; and a symposium at least 18 papers. Track chairs will be responsible for all aspects of their tracks, including: soliciting papers, reviewing, selecting, ... The names of track chairs will appear as Associate Editors in the conference proceedings and on the cover of the printed books (and indexed in science databases as such).

Proposals to organize tracks (sessions, workshops, or symposiums) should include the following information: name and address (+ email) of proposer, his/her biography, title of track, a 100-word description of the topic of the track, and a short description on how the track will be advertised (in most cases, track proposers solicit papers from colleagues and researchers whose work is known to the track proposer).

All special sessions and workshops are part of DMIN'15 and attendance is open to attendees of all conferences held at WORLDCOMP'15.

You are welcome to organize and chair a special session, workshop, or a symposium. Please send your application with your proposal to the special sessions chair at special-session-chair@dmin-2015.com (cc: conference-chair@dmin-2015.com) as quickly as possible.

TUTORIALS AND INVITED TALKS

see <http://www.dmin-2015.com/tutorials.htm> for details

USEFUL WEB LINKS

The main web site of DMIN'15 can be found at <http://www.dmin-2015.com>.

The web site of WORLDCOMP'15 can be found at <http://www.world-academy-of-science.org>.

IMPORTANT DATES

January 30, 2015 (asap): Workshop / Session Proposals

March 31, 2015: Submission of full papers (about 7 pages)

April 24, 2015: Notification of acceptance (+/- two days)

May 15, 2015: Final papers + Copyright + Registration

July 27-30, 2015: The 2015 International Conference on Data Mining (DMIN'15)

SUBMISSION OF PAPERS

Prospective authors are invited to submit their papers by uploading them according to the instructions provided on the DMIN website via <http://www.dmin-2015.com/submission.htm>. Please follow the formatting and uploading instructions (different to practice at some other WORLDCOMP'15 conferences). Submissions must be uploaded by March 31, 2015. Papers must not have been previously published or currently submitted for publication elsewhere. The length of the final/Camera-Ready papers (if accepted) will be limited to 7 (two-column IEEE style) pages.

Each paper will be peer-reviewed by at least two experts in the field for originality, significance, clarity, impact, and soundness. In cases of contradictory recommendations, a member of the conference programme committee will be charged to make the final decision (accept/reject) - often, this would involve seeking help from additional referees by using a double-blinded review process. In

addition, all papers whose authors included a member of the conference program committee will be evaluated using the double-blinded review process. (Essay/philosophical papers will not be refereed but may be considered for discussion/panels).

The proceedings will be published in printed conference books (ISBN) and will also be made available online. The printed proceedings/books will be available for distribution on site at the conference. The proceedings will be indexed in science citation databases that track citation frequency/data for each published paper. Science citation databases include: Inspec / IET / The Institute for Engineering & Technology; The French National Center for Scientific Research, CNRS, INIST databases, PASCAL (accessible from INIST, Datastar, Dialog, EBSCO, OVID, Questel.Orbit, Qwam, & STN International); and others. The proceedings/books of this congress have been evaluated for inclusion into major science citation index databases. We are happy to report that so far, the evaluation board of science citation index databases have approved the indexing, integrating, and inclusion of the DMIN conference into relevant indexing databases (indexing databases include, among others: Scopus, www.info.scopus.com; SCI Compendex, Engineering Village, www.ei.org; EMBASE, www.info.embase.com; and others).

SUBMISSION OF POSTER PAPERS:

Poster papers can be 2 pages long. Authors are to follow the same instructions that appear above (see, SUBMISSION OF REGULAR PAPERS) except for the submission is limited to 2 pages. On the first page, the author should state that "This paper is being submitted as a poster". Poster papers (if accepted) will be published if and only the author of the accepted paper wishes to do so.

MEMBERS OF PROGRAMME AND ORGANIZING COMMITTEES

The DMIN'15 programme committee is currently being compiled. Many who have already joined the committee are renowned leaders, scholars, researchers, scientists and practitioners of the highest ranks; many are directors of research labs., members of National Academy of Engineering, fellows of various societies, heads/chairs of departments, program directors of research funding agencies, deans and provosts as well as members of chapters of World Academy of Science.

Programme Committee members are expected to have established a strong and documented research track record. Those interested in joining the Programme Committee should email programme-chair@dmin-2015.com (cc: conference-chair@dmin-2015.com) the following information for consideration/evaluation: Name, affiliation and position, complete mailing address, email address, a one-page biography that includes research expertise offering to help with.

The list of Programme Committee of DMIN'14 appeared at:
<http://www.dmin-2014.com/committees.htm>

GENERAL INFORMATION

Please have a look at <http://www.dmin-2015.com>.

CONTACT:

Inquiries should be sent to: conference-chair@dmin-2015.com

Robert Stahlbock
General Conference Chair
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