DMIN'16
The 2016 International Conference on Data Mining

Date and Location: July 25-28, 2016
Monte Carlo Resort & Casino, Las Vegas, Nevada, USA

http://www.dmin-2016.com
http://www.world-academy-of-science.org

Submission deadline: May 17, 2016

This announcement is ONLY for those who MISSED the opportunity to submit their papers in response to earlier "Call For Papers". Therefore, authors who have ALREADY submitted papers in response to earlier "Call For Papers" should IGNORE this announcement. (Those who have been notified that their papers have been accepted, MUST still follow the instructions that were emailed to them; including meeting the deadlines mentioned in the notifications that were sent to them).

You are invited to submit a "LATE BREAKING PAPER", "POSITION PAPER", or "ABSTRACT/POSTER PAPER" for consideration. All accepted papers will be published in the DMIN conference proceedings (ISBN, 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 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
- **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 Data Mining
  - Business/Corporate/Industrial Data Mining
  - Credit Scoring
  - Direct Marketing
  - Database Marketing
  - Engineering Mining
  - Military Data Mining
  - Security Data Mining
  - Social Science Mining
  - Data Mining in Logistics
  - 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**
  - All aspects and modules

- **Alternative and additional examples of possible topics include:**
  - Data Mining for Business Intelligence
  - Emerging technologies in data mining
  - Big Data
  - 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
- Case studies and prototypes
- 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 optimization
- 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, ...)

SPECIAL SESSIONS:

The following special sessions are approved and will be hosted by DMIN'16:

1) Real-World Data Mining & Data Science Applications, Challenges, and Perspectives

2) Data Science and Data Services

Journal Publication: Selected high quality papers accepted and presented at the conference will be invited for an extended publication in the special issue of the *International Journal of Service Science, Management, Engineering and Technology* (indexed by JournalTOC, INSPEC, DBLP, Cabell's, Ulrich's, and others)

3) eMaintenance and Industrial Big Data

All special sessions and workshops are part of DMIN'16 and attendance is open to attendees of all conferences held at WORLDCOMP'16.

see http://www.dmin-2016.com/special_sessions.htm for details

TUTORIALS AND INVITED TALKS

The following tutorials and invited talks will be hosted by DMIN'16:

1) Invited Talk
Data Science: Where Academia Meets Commerce (P. Geczy)

2) Invited Talk
Mining Smartphone and Smartwatch Sensor Data: Activity Recognition, Biometrics, and Beyond (G.M. Weiss)

3) Tutorial
Industrial Big Data: The door to prescriptive analytics (D. Galar)

4) Tutorial
Predicting with Confidence (U. Johansson)

see http://www.dmin-2016.com/tutorials.htm and
http://worldcomp.org/events/2016/tutorials/index_html for details

KEYNOTE LECTURES:
http://worldcomp.org/events/2016/keynotes/index_html

USEFUL WEB LINKS

The main web site of DMIN'16 can be found at http://www.dmin-2016.com.

The web site of WORLDCOMP'16 can be found at http://www.world-academy-of-science.org.

IMPORTANT DATES

May 17, 2016: Submission of late LATE BREAKING PAPERS, POSITION PAPERS, ABSTRACTS/ POSTER papers
Instructions: see www.dmin-2016.com/submission

June 2, 2016: Notification of acceptance

June 16, 2016: Registration due

July 25-28, 2016: The 2016 International Conference on Data Mining (DMIN'16)

August 20, 2016: Camera-Ready LATE BREAKING PAPERS, POSITION PAPERS, ABSTRACTS/POSTERS due for publication. Papers submitted and accepted in response to this announcement will be published in the Final Edition of the proceedings which will go to press soon after the conference; they will also be indexed in science citation index databases. The Final Edition of the proceedings will be identical to the Preliminary Edition except for the addition of the accepted LATE BREAKING PAPERS, POSITION PAPERS, ABSTRACTS/POSTERS at the end of the books. The conference would make the necessary arrangements to ship the printed proceedings/books to such authors.

SUBMISSION OF LATE BREAKING PAPERS, POSITION PAPERS, ABSTRACTS/POSTERS:

In response to this announcement, authors are given the opportunity to submit their papers for evaluation in one of the following three paper categories:

1. LATE BREAKING PAPERS (LBP): describe late-breaking/recent developments in the field. The maximum number of pages is 7. Please write the following on the first page of your submission "DMIN - LATE BREAKING PAPER". If accepted, the length of the final/Camera-Ready paper will be limited to 7 (two-column IEEE style) pages and the author will be given the opportunity to present the paper in a formal session.

2. POSITION PAPERS: enable discussions on emerging topics without the experimentation normally present in an academic paper. Commonly, such papers will substantiate the opinions or positions put forward with evidence from an extensive objective discussion of the topic. The maximum number of pages is 4. Please write the following on the first page of your submission "DMIN - POSITION PAPER". If accepted, the length of the final/Camera-Ready paper will be limited to 4 (two-column IEEE style) pages and the author will be given the opportunity to present the paper in a formal session.

3. ABSTRACT/POSTER PAPERS: describe research roadmaps (similar to PhD plan or PhD prospectus). The maximum number of pages is 2. Please write the following on the first page of your submission "DMIN - ABSTRACT/POSTER PAPER". If accepted, the length of the final/Camera-Ready paper will be limited to 2 (two-column IEEE style) pages and the author will be given the opportunity to present the paper in a discussion/poster session.

Prospective authors are invited to submit their papers by uploading them according to the instructions provided on the DMIN website via http://www.dmin-2016.com/submission.htm. Please follow the formatting and uploading instructions (different to practice at some other WORLDCOMP'16 conferences). Submissions must be uploaded by May 17, 2016. 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).

WORLDCOMP anticipates having between 1,200 and 1,800 participants. Last year, the Congress and its affiliated tracks had attracted speakers, authors, and participants from over 178 different universities (including many from the top 50 ranked institutions), major IT corporations (including, Microsoft, Google, Apple, SAP, Facebook, Oracle, Amazon, Yahoo, Samsung, IBM, Ebay, GE, Siemens, Philips, Ericsson, BAE Systems, Hitachi, NTT, ...), major corporations (including, Exxon Mobil, Johnson & Johnson, JPMorgan Chase, Raytheon, PetroChina, GlaxoSmithKline, HSBC, Airbus, Boeing, Hyundai, ...), government research agencies (NSF, NIH, DoE, US Air Force, NSA National Security Agency, ...), US National Labs (including, NASA, ANL, LLNL, Sandia, ORNL, Lawrence Berkeley National Lab, Los Alamos National Lab, National Cancer Institute, NIST, ...), and a number of Venture Capitalists as well as distinguished speakers discussing Intellectual Property issues.

All accepted papers will be published in printed conference books/proceedings (with unique international ISBN number) and will also be made available online. In addition, like prior years, extended versions of selected papers (about 40%) of the conference will appear in journals and edited research books (publishers include: Springer, Elsevier, BMC, and others); some of these books and journal special issues have already received the top 25% most downloads in their respective fields. See the link below for a very small subset of the books published mostly based on extended versions of the accepted papers of this congress:

http://worldcomp.org/events/2016/worldcomp-books-journal-special-issues

Each book in each series will be subject to Elsevier and Springer science indexing products (which includes: Scopus, SCI Compendex, Engineering Village, EMBASE, and others). The publications will be indexed in science citation databases that track citation frequency/data. All publications are approved for inclusion into EBSCO, one of the largest subject index systems. ACM Digital Library is also including the titles into its database as well as ProQuest indexing databases and others.
With respect to these book series, **DMIN is planning to consider all submissions for publication in an edited book volume to be published by Springer**. Details will be published later.

Note that authors who submit papers in response to this announcement, will have their papers evaluated for publication consideration in the Final Edition of the conference proceedings which will go to press soon after the conference (the conference would then make the necessary arrangements to ship the printed proceedings/books to such authors). The Final Edition of the conference proceedings will be identical to earlier edition except for a number of sections/chapters appended to the proceedings/book.

GENERAL INFORMATION

Please have a look at http://www.dmin-2016.com.

CONTACT:

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