Call for Papers
20th Industrial Conference on Data Mining ICDM 2020

www.data-mining-forum.de
July 15 – 19, 2020, New York, USA

Chair: Prof. Dr. Petra Perner
Institute of Computer Vision and applied Computer Sciences, IBal

Ajith Abraham  Machine Intelligence Research Labs (MIR Labs), USA
Mohamed, Bourguessa  Universite du Quebec a Montreal - UQAM, Canada
Bernard Chen  University of Central Arkansas, USA
Jeroen de Bruin  University of Applied Sciences JOANNEUM, Austria
Antonio Dourado  University of Coimbra, Portugal
Stefano Ferilli  University of Bari, Italy
Geert Gins  Glaxo Smith Kline, Belgium
Warwick Graco  Australian Tax Office ATO, Australia
Aleksandra Gruca  Silesian University of Technology, Poland
Pedro Isaias  The University of Queensland, Australia
Piotr Jedrzejowicz  Gdynia Maritime University, Poland
Martti Juhola  University of Tampere, Finland
Janusz Kacprzyk  Polish Academy of Sciences, Poland
Mehmed Kantardzic  University of Louisville, USA
Lui Xiaobing  Google Inc., USA
Eduardo F. Morales  National Institute of Astrophysics, Optics, and Electronics, Mexico
Samuel Noriega  Universitat de Barcelona, Spain
Wieslaw Paja  University of Rzeszow, Poland
Juliane Perner  Novartis Institutes for BioMedical Research (NIBR), Switzerland
Rainer Schmidt  University of Rostock, Germany
Moti Schneider  PCCW Global, Greece
Victor Sheng  University of Central Arkansas, USA
Kaoru Shimada  Fukuoka Dental College, Japan
Gero Szepannek  University of Applied Sciences Stralsund, Germany
Joao Miguel Costa Sousa  Technical University of Lisbon, Portugal
Markus Vattulainen  Tampere University, Finland
Zhu Bing  Sichuan University, China

Aim of the Conference
This conference is the thirteenth conference in a series of industrial conferences on Data Mining that will be held on yearly basis. Experts from different fields will present their applications and the results obtained by applying data mining. Besides that, newcomers in the field can get a fast introduction to Data Mining by taking the tutorial running in connection with the conference. In a problem/solution hour you will have the opportunity to present your application and ask for support by others or for cooperation in solving the problem.
Paper submissions should be related but not limited to any of the following topics:

**Topics of the conference**

Paper submissions should be related but not limited to any of the following topics:

Applications of Data Mining in ...
- Marketing
- Medicine
- E-Commerce (Mining Logfiles)
- Biotechnology
- Quality Management
- Multimedia Data (Image, Video, Text, Signals)
- Web-Mining
- Intrusion Detection in Networks
- Agriculture
- Meterology
- Finance
- Logistic
- Legal Informatics
- Social Media

Theoretical and Application-oriented Topics in ...
- Case-Based Reasoning
- Clustering
- Classification & Prediction
- Big Data, Algorithm for Big Data
- Statistical Learning
- Association Rules
- Telecommunication
- Design of Experiment
- Strategy of Experimentation
- Capability Indices
- Deviation and Novelty Detection
- Control Charts
- Conceptional Learning
- Goodness Measures and Evaluation (e.g. false discovery rates)
- Inductive Learning Including Decision Tree and Rule Induction Learning
- Organisational Learning and Evolutional Learning
- Sampling Methods
- Similarity Measures and Learning of Similarity
- Statistical Learning and Neural Net Based Learning
- Visualization and Data Mining
- Deviation and Novelty Detection
- Feature Grouping, Discretization, Selection and Transformation
- Feature Learning
- Frequent Pattern Mining
- Learning and Adaptive Control
- Learning/Adaption of Recognition and Perception
- Learning for Handwriting Recognition
- Learning in Image Pre-Processing and Segmentation
- Mining Financial or Stockmarket Data
- Mining Motion from Sequence
- Subspace Methods
- Support Vector Machines
- Time Series and Sequential Pattern Mining
- Desirabilities
- Graph Mining
- Agent Data Mining
- Applications in Software Testing
- Knowledge Management
- Mining Social Media
- Online Targeting & Controlling
- Behavioral Targeting
- Meteorological Data Mining
- Data Mining in Logistics
- Data Mining in Energy Industry
- Business Intelligence and Data Mining
- Legal Informatics and Data Mining
- Data Mining for Logistic and Supply Chain Management

**Important Dates**

Deadline for paper submission: January 15th, 2020
Notification of acceptance: March 18th, 2020

**Authors can submit their papers in long or short version:**

Papers will be submitted via online reviewing systems. Please submit the PDF-File of your camera-ready paper through the relevant COMMENCE conference management system. Please look for more information to http://www.data-mining-forum.de. If you have any problems with the system please do not hesitate to contact info@data-mining-forum.de.
Long Papers (Oral Papers)
Long papers must be formatted in the Springer LNCS format. They should have at most 15 pages. Papers will be reviewed by the program committee. Accepted long papers will appear in the proceedings book "Advances in Data Mining" published by ibai-publishing Prof. Dr. Petra Perner. Extended versions of selected papers will be published in a special issue of an international journal after the conference.

Short Paper (Poster Papers)
Short papers are also welcome and can be used to describe work in progress or project ideas. They should have no more than 15 pages, formatted in Springer LNCS format. Accepted short papers will be presented as posters in the poster session. They will be published in a special poster proceedings book.

Industry Papers
We encourage industrial people to show their applications and projects for data mining. This work can be presented as poster during the poster session in the special industry track. Please submit a one page abstract including title, name and affiliation. Accepted industry Presentation will be published in the Series Industry proceedings "Advances in Data Mining". The size of the paper can range from 1 to 5 pages in Springer LNCS format. Colour illustrations are not possible. We recommend you to consider carefully the reviewers comments in the preparation of your final manuscript.

Tutorials
Data Mining Tutorial
Prof. Dr. Petra Perner, Institute of Computer Vision and Applied Computer Sciences IBaI, July 19, 2020
http://www.data-mining-forum.de/t_dm.php

Case-Based Reasoning Tutorial
Prof. Dr. Petra Perner, Institute of Computer Vision and Applied Computer Sciences IBaI, July 17, 2020
http://www.data-mining-forum.de/t_cbr.php

Intelligent Image Interpretation and Computer Vision in Medicine, Biotechnology, Chemistry & Food Industry
Prof. Dr. Petra Perner, Institute of Computer Vision and Applied Computer Sciences IBaI, July 14, 2020
http://www.data-mining-forum.de/t_iicv.php

Workshops (http://www.data-mining-forum.de/workshops.php):
* Workshop I-Business to Manufacturing and LifeScience B2ML 2020
* Workshop on Data Mining in Marketing DMM 2020
* International Workshop Case-Based Reasoning CBR-MD-AI&PR 2020
* Workshop on Multimedia Forensic Data Analysis MFDA2020

Exhibition, 17th Industrial Exhibition on Intelligent Data and Image Analysis IEDA 2020, July 18-19. 2020,
We like to invite you to present your company or publishing house at the Industrial Exhibition ieda2020.
(www.iedaexhibition.de)