

Please note! The conference date has changed.

Call for Papers
5th International Conference on
Machine Learning and Data Mining
MLDM'2007

July 18 – 20, 2007, Leipzig/Germany

Chair

Petra Perner

Institute of Computer Vision and applied Computer Sciences, IBAI Leipzig/Germany

Program Committee

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Aim of the Conference

The MLDM'2007 conference is the fifth event in a series of Machine Learning and Data Mining meetings, initially organised as international workshops. The aim of MLDM'2007 is to bring together from all over the world researchers dealing with machine learning and data mining, in order to discuss the recent status of the research in the field and to direct its further developments.

Basic research papers as well as application papers are welcome. All kinds of applications are welcome, but special preference will be given to multimedia related applications, biomedical applications, and webmining. Paper submissions should be related but not limited to any of the following topics:

- association rules
- applications of clustering
- applications in medicine
- aspects of data mining
- automatic semantic annotation of media content
- Bayesian models and methods
- conceptual learning and clustering
- case-based reasoning and learning
- classification and interpretation of images, text, video
- classification and model estimation
- case-based reasoning and associative memory
- content-based image retrieval
- decision trees
- deviation and novelty detection
- ensemble methods
- feature grouping, discretization, selection and transformation
- feature learning
- frequent pattern mining
- high-content analysis of microscopic images in medicine, biotechnology and chemistry
- Goodness measures and evaluation (e.g., false discovery rates)
- inductive learning including decision tree and rule induction learning
- knowledge extraction from text, video, signals and images
- learning/adaptation of recognition and perception
- learning of internal representations and models
- learning of appropriate behaviour
- learning of action patterns
- learning in image pre-processing and segmentation
- learning and adaptive control
- learning robots
- learning in process automation
- learning for handwriting recognition
- learning of semantic inferencing rules
- learning of ontologies
- learning of visual ontologies
- mining gene data bases and biological data bases
- mining images, temporal-spatial data, images from remote sensing
- mining text documents
- mining structural representations such as log files, text documents and htm- documents
- mining financial or stockmarket data
- mining images in computer vision
- mining images and texture
- mining motion from sequence
- network analysis and intrusion detection
- neural methods
- nonlinear function learning and neural net based learning
- organisational learning and evolutionary learning
- probabilistic information retrieval
- rule induction and grammars
- retrieval methods
- real-time event learning and detection
- Selection bias
- Sampling methods
- Selection with small samples
- similarity measures and learning of similarity
- statistical learning and neural net based learning
- support vector machines
- subspace methods
- statistical and conceptual clustering methods: basics
- statistical and evolutionary learning
- speech analysis
- symbolic learning and neural networks in document processing
- time series and sequential pattern mining
- text mining
- visualization and data mining
- video mining

Invited Lecture

Data Clustering: User's Dilemma

Anil K. Jain

Department of Computer Science and Engineering, Michigan State University (USA)

Invited Lecture

Reliable Face Recognition Methods

Harry Wechsler

Department of Computer Science George Mason University (USA)

Important Dates

Deadline for paper submission: February 7, 2007

Notification of acceptance: March 22, 2007

Final paper submission: April 10, 2007

Authors can submit their papers in long or short version:

Please Email submissions to info@ibai-institut.de.

Long 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 "Machine Learning and Data Mining in Pattern Recognition" published by Springer Verlag in the LNAI series.

Short Papers

Short papers can be used to describe work in progress or project ideas. They should have no more than 5 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.

Special Issue

Extended versions of selected papers will be published in a special issue of an international journal after the conference.