Call for papers

VDM@PKDD2001 - Workshop on Visual Data Mining in conjunction with ECML/PKDD 2001 Joint European-based forum on Machine Learning, Knowledge Discovery and Data Mining, 3-7 September, 2001 (http://www.informatik.uni-freiburg.de/~ml/ecmlpkdd/index.html)

Paper submission due 8th June 2001.

The Workshop Web site is at http://www-staff.it.uts.edu.au/~simeon/vdm_pkdd2001/

Visual data mining is a collection of interactive reflective methods that support exploration of data sets by dynamically adjusting parameters to see how they affect the information being presented. This emerging area in explorative and intelligent data analysis and mining is based on the integration of concepts from computer graphics, visualisation metaphors and methods, information and scientific data visualisation, visual perception, cognitive psychology, diagrammatic reasoning, visual data formatting and 3D collaborative virtual environments for information visualisation. It offers machine learning and data mining community powerful means of analysis that can assist in uncovering patterns and trends that are likely to be missed with other non-visual methods. Visual data mining techniques offer the luxury of being able to make observations without preconception.

The goal of the workshop is to provide a forum for presentation and discussion of the newest both mature and greenhouse ideas, research and developments in the methods and techniques for visual data mining and to identify the short- and long-term research directions in the field.

TOPICS OF INTEREST

The scope of the workshop covers the intersection of broad range of disciplines. The major topics of the workshop include but are not limited to:

- visual methods for data analysis
- multimedia support for visual reasoning in data mining
- visualisation schemata and formal visual representation of metaphors
- visual explanations
- general visual data mining process models
- visual reasoning and uncertainty management in data mining
- complexity, efficiency and scalability of information visualisation in data mining
- incorporation of domain knowledge in visual reasoning
- virtual environments for data visualisation and exploration
- algorithmic animation methods for visual data mining
- perceptual and cognitive aspects of information visualisation in data mining
- interactivity and iterativity in visual data mining
- representation of discovered knowledge
- visual analysis of large databases
- collaborative visual data exploration and model building
- metrics for evaluation of visual data mining methods
- generic system architectures and prototypes for visual data mining
- methods for visualising semantic content
- immersive data mining techniques

We also encourage submissions, which present early stages of research work, software applications and demonstrations.

SUBMISSIONS

We encourage submissions of 10-15 pages. Contact author and email address should be specified. Electronic submissions in either PDF, PS, RTF or Microsoft Word Document format are preferable. Please, e-mail electronic submissions to vdm-chairs@it.uts.edu.au with subject "VDM@PKDD2001 Submission". If not submitting an electronic version, please send a hard copy original to one of the workshop chairs.

DISSEMINATION

Peer-reviewed submissions, accepted for presentation at the workshop will be published in the workshop proceedings. Extended and revised paper-oriented versions of selected submissions will be published in a book by Springer-Verlag or Kluwer Academic Publishers.

IMPORTANT DATES

Submission deadline:	8 June 2001
Acceptance notification:	29 June 2001
Camera ready copy:	13 July 2001
Workshop day:	4 September 2001

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