



Workshop: Data Mining in Agriculture

in conjunction with ICDM, July 2010, Berlin, Germany

<http://dma2010.de>

Introduction

Data mining, the art and science of intelligent analysis of (usually large) data sets for meaningful (and previously unknown) insights, is nowadays actively applied in a wide range of disciplines related to agriculture. Due to the emerging importance of data mining techniques and methodologies in the area of agriculture, this workshop aims to bring together practitioners and researchers in this field. It creates a community of people who are actively using data mining tools and techniques and apply them to agriculture data.

This workshop will be co-hosted with the Industrial Conference on Data Mining 2010 (ICDM'2010), July 12th-14th, 2010, Berlin, Germany. The ICDM is one of the leading events where researchers, experts and newcomers in the field of data mining come together to share their ideas and insights and discuss new trends in data mining. At this conference series, quite a number of new theoretical and practical topics in data mining have been developed. Work on multimedia-data mining and applications in medicine, agriculture as well as in security have been presented.

Scope

Carrying out effective and sustainable agriculture has become an important issue in recent years. Agricultural production has to keep up with an ever-increasing population. A key to this is the usage of modern technologies such as GPS (for precision agriculture) and data mining techniques to take advantage of the soil's heterogeneity. The large amounts of data that are nowadays virtually harvested along with the crops have to be analysed and should be used to their full extent – this is clearly a data mining task. Data mining allows to extract the most important information from such vast data and to uncover previously unknown patterns that may be relevant to current agricultural problems, thereby helping farmers and managing organisations to transform data into business decisions.

The goals of this workshop are to provide a forum for identifying important contributions and opportunities for research on data mining as it applies to agriculture to promote the systematic study of how to apply data mining to agriculture data to develop practical applications.

Submissions and Publications

Workshop papers will be published in the workshop proceedings by IBAI publishing. PostScript (compressed and uuencoded) or PDF paper submissions should be formatted according to Springer LNCS format, with a maximum of ten pages. Author's instructions along with LaTeX and Word macro files are available online at Springer. Papers will be submitted via an on-line reviewing system, which will be announced by the end of 2009.

Date/Location:

July 14th 2010, Berlin/Germany

Workshop Chair:

Georg Ruß, Universität Magdeburg, Germany

Workshop Committee:

- Alexander Brenning, University of Waterloo, Canada
- Warwick Graco, Australian Taxation Office, Canberra, Australia
- David A. Holland, Computer Science Corporation, Arlington, VA, USA
- Frank Rügheimer, Institut Pasteur, Paris, France
- Ernesto W. De Luca, TU Berlin, Germany

Fees:

EUR 220 per participant (workshop only). Different fees apply if also attending ICDM'2010.

Topics of interest include (but are not limited to):

- Data Mining on Sensor and Spatial Data from Agricultural Applications
- Analysis of Remote Sensor Data
- Feature Selection on Agricultural Data
- Evaluation of Data Mining Experiments
- Spatial Autocorrelation in Agricultural Data

Target Group

- Computer scientists working on agriculture problems
- Machine learners, data miners and statisticians with an interest in agriculture
- Agricultural researchers with a background in DM
- Agriculture professionals with data mining applications and showcases
- Middleware developers covering data mining aspects in data (pre)processing
- Farmers with an interest in data mining and related aspects
- ... and similar professional and research people

Important Dates

- Submission Deadline: April 28th, 2010
- Notification Date: May 24th, 2010
- Camera-Ready Date: June 4th, 2010
- Workshop Date: July 14th, 2010