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Sent: Tuesday, July 06, 2010 10:32 PM
To: dbworld@cs.wisc.edu
Subject: [Dbworld] 2nd Call for Papers - VAKD '10

****APOLOGIES FOR CROSS-POSTINGS****

2nd Call for Papers - VAKD '10

IEEE ICDM WORKSHOP ON VISUAL ANALYTICS AND KNOWLEDGE DISCOVERY:
INTEGRATING AUTOMATED ANALYSIS, INTERACTIVE EXPLORATION, ANALYTICS AND VISUAL REASONING

<http://www.mpi-inf.mpg.de/VAKD10/>

A full-day workshop in conjunction with
the 10th IEEE International Conference on Data Mining, Sydney, Australia, December 13,
2010.

<http://datamining.it.uts.edu.au/icdm10/>

Background:

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The goal of Visual Analytics is to derive insight from massive, dynamic, ambiguous, and often conflicting data; detect the expected and discover the unexpected; provide timely, defensible, and understandable assessments; communicate the assessment effectively for action. The power of today's computers combined with efficient pattern recognition abilities and domain knowledge of human analysts is a challenging and very promising road in dealing with large amounts of complex data. It is a major driving force for solutions for information overload in many areas.

The objective of this workshop is to bring together researchers and practitioners in visual analytics; provide a forum for presentation and discussion of the both mature and new hot ideas, promote research and developments in visual analytics and supporting disciplines, and identify the short- and long-term research directions in the field.

Important Dates

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* July	23, 2010, 23:59 UTC-11	Paper/challenge submissions
* September	20, 2010	Notifications of acceptance
* October	11, 2010	Camera ready papers
* December	13, 2010	Workshop

Topics of Interest

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Suggested topics (but not limited to):

- * Complexity, efficiency, and scalability of visual analytics techniques
- * Incorporation of domain knowledge in visual analytics
- * Algorithmic animation methods for visual data mining
- * Cognitive aspects of information visualization in data mining
- * Multi-modal technologies for visual analytics
- * Interactivity in visual analytics
- * Visual languages in visual analytics
- * Visual representation of discovered knowledge

- * Efficient data processing algorithms for visual computing
- * Metrics and evaluation methods for visual analytics
- * Generic visualization architectures
- * Methods for visualizing semantic content
- * Visual analytics of integrated data sets, including text, graph, and digital media data
- * Collaborative visual analytics, including high-end virtual environments
- * Visual data abstraction
- * Visual analysis of large graphs and networks
- * Visual exploration of data warehouses
- * Integrated visualization of raw data and analysis results
- * Perceptual and cognitive factors visual analytics
- * Interaction paradigms and human factors in visual analytics

Submission

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We encourage submission of unpublished original research papers (research paper), well written, thought-provoking position papers that stimulate a discussion on the future of the field (position paper), papers demonstrating the capabilities of the combination of automated analysis and interactive visualization for the analysis of the VAST challenge datasets (challenge paper), and recently published outstanding works, given that the original papers are adequately cited and the status is clearly stated in the contribution (outstanding contribution paper). We encourage (but do not strictly require) all contributors to use the challenge tasks or datasets to demonstrate their contributions.

The length of the papers should be 10 pages or less in IEEE 2-column format and they should be submitted by 23 July 2010 23:59 UTC-11. See the workshop web site for detailed submission instructions.

Visual Analytics Challenge

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The workshop proposes a number of datasets along with a number of selected challenges to evaluate the visual analytics methods and methodologies. The datasets and challenges come from VAST 2008-2010 challenges. More information is available at the VAKD '10 Web site.

Program Committee

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- * Gennady Andrienko, Fraunhofer Institute IAIS, Germany
- * Alessio Bertone, Donau-Universitaet Krems, Austria
- * Michael Boehlen, University of Zuerich, Switzerland
- * Urska Cvek, LSU Shreveport, USA
- * William S. Cleveland, Purdue University, USA
- * Joachim Giesen, Friedrich-Schiller-Universitaet Jena, Germany
- * Maolin Huang, University of Technology, Australia
- * Otto Huisman, ITC, University of Twente, The Netherlands
- * Jimmy Johansson, Linköping University, Sweden
- * Anne Kao, The Boeing Company, USA
- * Paul Kennedy, University of Technology, Australia
- * Quang Vinh Nguyen, University of Western Sydney, Australia
- * Thomas Nocke, Potsdam Institute for Climate Impact Research, Germany
- * Panagiotis Papapetrou, Aalto University, Finland
- * Anthony Robinson, Penn State, USA
- * Kai Puolamäki, Aalto University, Finland
- * Joern Schneidewind, Telefonica-o2, Germany
- * Tobias Schreck, Technische Universitaet Darmstadt, Germany
- * Christian Tominski, University of Rostock, Germany

Challenge Chairs

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- * Mark A. Whiting and Jean Scholtz, Pacific Northwest National Laboratory, USA
- * Catherine Plaisant, University of Maryland, USA

General Chairs

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- * Simeon Simoff, University of Western Sydney, Australia
- * Pak Chung Wong, Pacific Northwest National Laboratory, USA
- * Mike Sips, GFZ German Research Centre for GeoScience, Germany
- * Arturas Mazeika, Max-Planck-Institut Informatik, Germany

Contact Information

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- * Email: vakd10@mpi-inf.mpg.de
- * Web site: <http://www.mpi-inf.mpg.de/VAKD10>

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