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From: dbworld-bounces@cs.wisc.edu on behalf of Arturas Mazeika [amazeika@mpi-inf.mpg.de]
Sent: Thursday, July 29, 2010 8:02 AM
To: dbworld@cs.wisc.edu
Subject: [Dbworld] VAKD'10: invited talks and extended deadlines

It is our pleasure to announce key note speakers of the IEEE VAKD@ICDM workshop:

Peter Eades, University of Sydney, Australia
Joseph Kielman, US Department of Homeland Security, USA

Peter Eades will give a keynote presentation titled 'It's Hard to Draw a Graph'. It will detail methods for graph visualization, and point to problems that have not yet been solved.

Joseph Kielman will give a keynote presentation titled 'Research Directions and Collaborations in Visual Analytics'. This will give some insight on visual analytics, based on his experience, and point out a few open research problems and possible collaborations between the visual analytics and data mining communities.

Due to many request, the deadline of all ICDM workshops including VAKD are extended:

Aug 9, 2010: Paper submission
Sep 20, 2010: Notification of acceptance
Oct 11, 2010: Camera-ready copies and copyright forms
Dec 14, 2010: Workshops

3rd 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 14,
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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- * August 9, 2010 Paper/challenge submissions
- * September 20, 2010 Notifications of acceptance
- * October 11, 2010 Camera ready papers
- * December 14, 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

Invited Talks

- * Peter Eades, It's Hard to Draw a Graph, University of Sydney, Australia
- * Joseph Kielman, Research Directions and Collaborations in Visual Analytics, US Department of Homeland Security, USA

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 9 August 2010. 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
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- * Anne Kao, The Boeing Company, USA
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- * Christian Tominski, University of Rostock, Germany
- * Chris Weaver, University of Oklahoma, USA
- * Mark Whiting, Pacific Northwest National Laboratory, USA
- * Anders Ynnerman, Linköping University, Sweden

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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