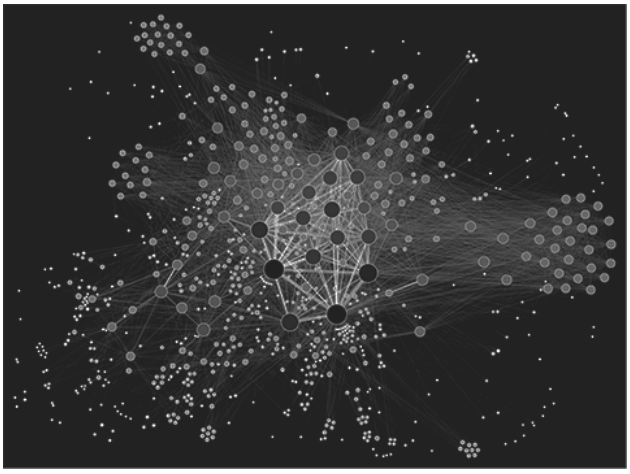
DEADLINE EXTENDED

Call for Papers:

IEEE VIS 2015 Workshop:

Visualization for Decision Making Under Uncertainty

Submission Deadline: August 31, 2015



This workshop calls on the research community to discuss the state-of-the-art and research challenges for supporting modeling and decision making under uncertainty in the computational and data sciences. When creating visual tools for simulations, challenges exist in the uncertainty analysis (UA) of ensembles, the sensitivity analysis (SA) of input-output models, and the decision making process that requires the understanding of risk stemming from both UA and SA.

Over the last few years we have seen many different attempts to address these issues, and it is now time to review the achievements in the light of real-world applications. We therefore attempt to broaden the focus of uncertainty analysis to a more comprehensive approach to modeling and discuss the current and future requirements from an application-oriented perspective.

We invite authors to submit short (2-page) papers on issues surrounding uncertainty in visualization, leading to a 20-minute presentation. Our goal is to have an open discussion on successes, failures, and goals for the future of uncertainty and parameter space visualization. Of special interest is the deployment and use of tools from our field within application domains.

For more information, please refer to our website: http://vda.univie.ac.at/uncertainty2015/

Topics of interest and questions we would like to ask include, but are not limited to:

- Use-cases of existing and/or previously published methods
- Reports on the effectiveness or evaluation of common techniques
- Reflections on decision making under uncertainty
- Observations on interactions with application specialists
- Modifications of techniques for specific domains
- Design choices for decision making and visual representations
- Design processes

- Cognitive and perceptual aspects

- Are the current tools we see in visualization venues currently being used in the targeted field?
- What are the expert evaluations of these tools?
- What was learned from these deployments?
- Are we answering the questions for which our tools were designed?
- What are the new challenges in uncertainty and parameter space visualization?
- What are the open topics and continuing challenges?
- What happens (or has happened) to a tool in 5, 10 years?
- Is visualization what is important, or are the questions being asked more important?
- Did we change the visualization pipeline for uncertainty?
- Does the visual encoding aide in the decision making?
- Are there perceptual/cognitive issues that we are ignoring?

Important Dates:

- July 1, 2015: Submission open.
- August 31, 2015: Submissions due.
- September 7, 2015: Decisions sent out.

Submission Instructions:

Papers should be maximum 2-pages in length and should use the formatting guide for TVCG (http://junctionpublishing.org/vgtc/Tasks/camera_tvcg.html). *Submissions must be submitted by August 31, 2015 and should be sent to the following email address: kpotter@uoregon.edu with subject line* ***VDMU 2015.***

Organizing Committee:

- Kristi Potter, University of Oregon
- Rüdiger Westermann, Technische Universität München
- Christoph Heinzl, University of Applied Sciences - Upper Austria,
- Mike Kirby, SCI Institute
- Ross Whitaker, SCI Institute
- Eduard Gröller, Technische Universitat Wien
- Torsten Möller, Universität Wien
- Stefan Bruckner, University of Bergen
- Thomas Torsney-Weir, University of Vienna

Questions:

Email kpotter@uoregon.edu.