Call for Papers

ReVISE’16

Requirements for Visualizations in Systems Engineering

on the Requirements Engineering Conference RE’16
in Beijing, China, Sep 12-16, 2016

https://www.wi-inf.uni-due.de/ReVISE16

Submissions until June 27, 2016 (extended)
Notification to authors July 10, 2016
Camera ready version July 24, 2016
Workshop Sep 13, 2016

Topics

Visual knowledge representations and data visualizations form a particular kind of information systems in their own right, which deserve a high degree of scientific interest. Information systems for visualization are, e.g., analytical diagrams embedded into user interfaces, model editors and domain-specific model visualizations, dashboards, and interactive info-graphics. These kinds of systems are characterized by specific functionalities that come with their own class of requirements.

Specifying requirements towards visualizations yields a number of challenges, such as ensuring that they can appropriately fulfill users’ information needs, that visualizations can efficiently be understood, and that communication among humans is successfully fostered. The goal of the ReVISE workshop is to provide a venue for the research community to discuss insights and challenges in eliciting and expressing requirements towards visualizations and visual notations used in the engineering of contemporary information intensive systems such as software applications or enterprise systems.

Possible research directions for submissions to the workshop include, but are not restricted to:

• How can information demands towards visualizations be expressed as part of a system engineering procedure?
• How can it be methodically ensured that visualizations are understood unambiguously by different people?
• How can appropriate visualization types for the support of specific system engineering tasks be systematically identified?
• How do domain-specific software-development procedures look like in which visualizations are created as part of a model-driven visualization (MDV) process?
• In which way do different cultural backgrounds of visualization users potentially influence the specification of requirements towards visualizations?

Additionally, if your paper addresses one or more of the following topics, please consider to submit it:

• Analysis of the quality and efficacy of visualizations
• Notations and symbols in conceptual models
• Design concepts for interactive visualizations
• Evaluation and improvement of existing visualization techniques
• Cognitive aspects of communicating knowledge via visualizations
• Use of models and visual notations in practice
Call for Papers – ReVISE’16

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- Innovative interface concepts for user interaction with software
- Software-supported creation and use of information graphics
- Tool support for creating interactive visualizations
- Use of visualization in business process modeling
- Use of visualizations in collaborative settings
- Teaching and training of visualization design and use

Workshop Format

The 1-day workshop will consist of a keynote, paper presentations for full and short papers, as well as a demo-oriented session where recent applications and prototypes displaying novel ideas in visualization research are showcased.

Each demo will be introduced in a short presentation, and then demonstrated live with the running software. Submissions for the demo track do not need to fulfill the same degree of scientific justification as paper submissions, and do not have to explicitly address individual research questions. In turn, demo submissions are required to be highly innovative and distinctively creative compared to the state-of-the-art of existing approaches and products.

Submission

The following types of submissions will be accepted:

- Full papers, up to 10 pages
- Short papers (work in progress, research agendas, industry reports), up to 6 pages
- Demo papers (demos, prototypes), 2 to 4 pages

Please upload your submission at https://easychair.org/conferences/?conf=revise16. Use the IEEE formatting style at http://www.ieee.org/conferences_events/conferences/publishing/templates.html to format your work.

Each submission will be peer-reviewed by at least 3 members of the program committee. Based on the reviews and review scores the organizing committee will make a selection of papers to be accepted for publication. The workshop proceedings will be published in the IEEE digital library.

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