DECISION ANALYTICS, MOBILE SERVICES AND SERVICE SCIENCE

Minitrack: Visualization and Analytics for Decision Support, Operational Management, and Scientific Discovery

This minitrack will have applications in a broad range of situations where human expertise must be brought to bear on problems characterized by massive datasets and data that are uncertain in fact, relevance, location in space and position in time. Examples include environmental science and technologies, natural resources and energy, health and related life sciences, safety and security (aircraft safety, law enforcement, antiterrorism, disaster relief) and business processes. We encourage submissions that extend the areas of use to include a broader range of analytic tasks such as science and technology, public health, business intelligence, financial analysis, and other domains where interactive visualization systems may be used to improve human decision-making.

Submissions may include studies of visual analytics and decision support in the context of an organization (e.g., communication between analysts and policy-makers), perceptual and cognitive aspects of the analytic task, and collaborative analysis using visual information systems.

Minitrack Co-Chairs
David S. Ebert (Primary Contact)
Silicon Valley Professor of ECE, Director, DHS VACCINE Center of Excellence
School of Electrical and Computer Engineering
465 Northwestern Ave.
Purdue University
West Lafayette, IN 47907
Phone: (765) 494-9064
ebertd@purdue.edu

David Ebert is the Silicon Valley Professor of Electrical and Computer Engineering at Purdue University, a University Faculty Scholar, a Fellow of the IEEE, and Director of the Visual Analytics for Command Control and Interoperability Center (VACCINE), the Visualization Science team of the Department of Homeland Security's Command Control and Interoperability Center of Excellence. Dr. Ebert performs research in novel visualization techniques, visual analytics, volume rendering, information visualization, perceptually-based visualization, illustrative visualization, mobile graphics and visualization, and procedural abstraction of complex, massive data. Ebert has been very active in the visualization community, teaching courses, presenting papers, co-chairing many conference program committees, serving on the serving as Editor in Chief of IEEE Transactions on Visualization and Computer Graphics, serving serving on the IEEE Computer Society Board of Governors, and successfully managing a large program of external funding to develop more effective methods for visually communicating information.

Thomas Ertl
Full Professor of Computer Science
University of Stuttgart
Universitätsstraße 38, 70569 Stuttgart, Germany
Phone/Fax: +49 (0)711 685-88331 / +49 (0)711 685-88610
Thomas.ertl@vis.uni-stuttgart.de

02.19.2013

Thomas Ertl received his masters degree in computer science from the University of Colorado at Boulder and a PhD in theoretical astrophysics from the University of Tuebingen. Currently, Dr. Ertl is a full professor of computer science at the University of Stuttgart, Germany and the head of the Visualization and Interactive Systems Institute (VIS)and the Visualization Research Center of the University of Stuttgart (VISUS). His research interests include visualization, computer graphics and human computer interaction in general with a focus on volume rendering, flow visualization, multi-resolution analysis, and parallel and hardware accelerated graphics for large datasets. Dr. Ertl is coauthor of more than 300 scientific publications and he served on several program and paper committees as well as a reviewer for numerous conferences and journals in the field.

Kelly Gaither

Direction of Visualization

Texas Advanced Computing Center, University of Texas

Research Office Complex 1.101
J.J. Pickle Research Campus, Building 196
10100 Burnet Road (R8700)
Austin, Texas 78758-4497

Phone: 512-471-8957 Fax: 512-475-9445

Kelly@tacc.utexas.edu

Kelly Gaither is the Director of Visualization at the Texas Advanced Computing Center, University of Texas. She received her doctoral degree in Computational Engineering from Mississippi State University in May 2000, and received her masters and bachelors degree in Computer Science from Texas A&M University in 1992 and 1988 respectively. She has over thirty refereed publications in fields ranging from Computational Mechanics to Supercomputing Applications to Scientific Visualization. She has given a number of invited talks. Over the past ten years, she has actively participated in conferences related to her field, specifically acting as general chair in 2004 of IEEE Visualization.