

Collocated with
VL/HCC'08 and
Diagrams'08

ACM Symposium on

SOFTWARE



VISUALIZATION

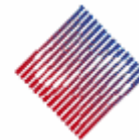
<http://www.softvis.org>

**September 16–17, 2008
Herrsching am Ammersee, Germany**

Symposium at a Glance

	Tuesday	Wednesday
Early Morning	SV for Understanding	Keynote Address by John Stasko
Late Morning	SV for Testing and Debugging	Joint Session with VL/HCC
Early Afternoon	SV for Maintenance	SV for Design
Late Afternoon	SV Interaction and Layout	SV Applications
Evening	Welcome Reception and Poster Session	

Thank You to Our Symposium Sponsors



Tuesday, September 16

- 08:45 – 09:00 **Welcome and Opening Words**
Rainer Koschke, General Chair, SOFTVIS 2008
- 09:00 – 10:30 **SV for Understanding** (Session Chair: C. Hundhausen)
- 09:00 *Assessing the Benefits of Synchronization-Adorned Sequence Diagrams: Two Controlled Experiments*
Shuaohua Xie, Eileen Kraemer, University of Georgia, Athens, Georgia, USA;
R.E.K. Stirewalt, Laura Dillon, Scott Fleming, Michigan State University, East Lansing, Michigan, USA
- 09:30 *Visualization of Exception Handling Constructs to Support Program Understanding*
Hina Shah, Carsten Goerg, and Mary Jean Harrold, Georgia Institute of Technology, Atlanta, Georgia, USA
- 10:00 *Visual Analysis of Importance and Grouping in Software Dependency Graphs*
Christian Pich, University of Konstanz, Germany; Lev Nachmanson and George Robertson, Microsoft Research, Redmond, Washington, USA
- 10:15 *Algorithm Visualization Using Concrete and Abstract Shape Graphs*
Sascha Parduhn, Raimund Seidel, and Reinhard Wilhelm, Saarland University, Saarbrücken, Germany
- 10:30 – 11:00 **Break**
- 11:00 – 12:30 **SV for Testing and Debugging** (Session Chair: A. Telea)
- 11:00 *Analyzing the Reliability of Communication between Software Entities Using a 3D Visualization of Clustered Graphs*
Dirk Zeckzer, Fraunhofer IESE, Kaiserslautern, Germany; Leon Schröder, University of Kaiserslautern, Germany; Robert Kalcklösch, TU Kaiserslautern, Germany; Hans Hagen, University of Kaiserslautern, Germany; and Timo Klein, Fraunhofer IESE, Kaiserslautern, Germany
- 11:30 *HDPV: interactive, faithful, in-vivo runtime state visualization for C/C++ and Java*
Jaishankar Sundararaman, Godmar Back, Virginia Tech, Blacksburg, Virginia, USA
- 12:00 *Representing Unit Test Data for Large Scale Software Development*
Joseph Cottam, Joshua Hursey, and Andrew Lumsdaine, Indiana University, Bloomington, Indiana, USA
- 12:30 – 14:00 **Lunch**

- 14:00 – 15:30 **SV for Maintenance** *(Session Chair: J. Hosking)*
- 14:00 *An Interactive Reverse-Engineering Environment for Large-Scale C++ Code*
Alexandru Telea, University of Groningen, Netherlands; Lucian Voinea, SolidSource BV, Netherlands
- 14:30 *A Catalogue of Lightweight Visualizations to Support Code Smell Inspection*
Chris Parnin, Carsten Goerg, and Ogechi Nnadi, Georgia Institute of Technology, Atlanta, Georgia, USA
- 15:00 *Classifying Desirable Features of Software Visualization Tools for Corrective Maintenance*
Mariam Sensalire and Patrick Ogao, Makerere University, Uganda; Alexandru Telea, University of Groningen, Netherlands
- 15:15 *Cluster Analysis of Java Dependency Graphs*
Jens Dietrick, Vyacheslav Yakovlev, Catherine McCartin, and Graham Jenson, Massey University, Palmerston North, New Zealand; Manfred Duchrow, Consulting and Software, Germany
- 15:30 – 16:00 **Break**
- 16:00 – 17:30 **SV Interaction and Layout** *(Session Chair: J. Stasko)*
- 16:00 *GEF 3D—A Framework for Two-, Two-and-a-half-, and Three-Dimensional Graphical Editors*
Jens von Pilgrim and Kristian Duske, FernUniversität Hagen, Germany
- 16:30 *Automatic Layout of UML Use Case Diagrams*
Holger Eichelberger, University of Hildesheim, Germany
- 17:00 *Improving an Interactive Visualization of Transitions Systems*
Bas Ploeger and Carst Tankink, Eindhoven University of Technology, Netherlands
- 18:30 – 20:00 **Opening Reception and Poster Session**
- A Landscape Metaphor for Visualization of Software Projects*
Amaia Aguirregoitia Martínez, J. Javier Dolado Cosín, and Concepción Presedo García
Department of Computer Languages and Systems, University of the Basque Country, Spain
- A Metro Map Metaphor for Visualization of Software Projects*
Amaia Aguirregoitia Martínez, J. Javier Dolado Cosín, and Concepción Presedo García
Department of Computer Languages and Systems, University of the Basque Country, Spain
- Combining Software Visualization Paradigms to Support Software Comprehension Activities*
Glauco de F. Carneiro, Rodrigo Magnavita, and Manoel Mendonça, Salvador University, Bahia - Brazil
- Enhancing UML Sketch Tools with Digital Pens and Paper*
Raimund Dachsel, Mathias Frisch, Eike Decker, Computational Visualistics/Software Engineering Group, Otto-von-Guericke-University Magdeburg, Germany
- Texture-based Visualization of Metrics on Software Architectures*
Heorhiy Byelas, Alexandru, Telea, Institute of Mathematics and Computer Science, University of Groningen, the Netherlands
- Towards Seamless Semantic Zooming Techniques for UML Diagrams*
Mathias Frisch and Raimund Dachsel, Computational Visualistics/Software Engineering Group, Otto-von-Guericke-University Magdeburg, Germany; Tobias Brückmann, Applied Telematics/e-Business Group, University of Leipzig, Germany

VAST – Visualization of Abstract Syntax Trees within Language Processors Courses

Francisco J. Almeida-Martnez, Jaime Urquiza-Fuentesy, and J. Angel Velzquez-Iturbidez,
Universidad Rey Juan Carlos, Spain

Visualizing the Computation Tree of the Tutte Polynomial

Bennett Thompson, David J. Pearce, and Craig Anslow, Victoria University of Wellington, New Zealand; Gary Haggard, Bucknell University, USA

Web Software Visualization Using Extensible 3D (X3D) Graphics

Craig Anslow, James Noble, and Stuart Marshall, Victoria University of Wellington, New Zealand; Robert Biddle, Carleton University, Canada

Wednesday, September 17

09:15 – 10:30	Joint Keynote Address (SOFTVIS & VL/HCC) Visualization for Information Exploration and Analysis <i>John Stasko, Georgia Institute of Technology, Atlanta, Georgia, USA</i>
10:30 – 11:00	Break
11:00 – 13:00	Joint Paper Session with VL/HCC (Session Chair: A. Repenning)
11:00	<i>Exploring the Evolution of Software Quality with Animated Visualization</i> Guillaume Langelier, Hourari Sahraoui and Pierre Poulin, Université de Montréal, Canada
11:30	<i>Flexible visualization of automatic simulation based on structured graph transformation</i> Claudia Ermel, Karsten Ehrig, Enrico Biermann and Jonas Hurrelmann, Technische Universität Berlin, Federal Institute for Materials Research and Testing, Berlin, Germany
12:00	<i>Streamsight – A Visualization Tool for Large-Scale Streaming Applications</i> Wim De Pauw, Henrique Andrade and Lisa Amini, IBM T.J. Watson Research Center, Hawthorne, New York, USA
12:30	<i>Software Visualization for End-User Programmers: Trial Period Obstacles</i> Neeraja Subrahmaniyan, Margaret Burnett and Christopher Bogart, Oregon State University, Corvallis, Oregon, USA
13:00 – 14:30	Lunch
14:30 – 16:00	SV for Design (Session Chair: W. De Pauw)
14:30	<i>Visualizing Inter-Dependencies Between Scenarios</i> David Harel and Itai Segall, Weizmann Institute of Science, Rehovot, Israel
15:00	<i>Visually Localizing Design Problems with Disharmony Maps</i> Richard Wettel and Michele Lanza, University of Lugano, Switzerland
15:30	<i>Stack-based Visualization of Out-of-Core Algorithms</i> Tony Bernardin, Brian Budge, and Bernd Hamann, University of California-Davis, USA
16:00 – 16:30	Break
16:30 – 17:45	SV Applications (Session Chair: E. Kraemer)
16:30	<i>Applying Visualisation Techniques in Software Product Lines</i> Daren Nestor, Steffen Thiel, Goetz Botterweck, Ciaran Cawley, and Patrick Healy, University of Limerick, Ireland
17:00	<i>Signature Visualization of Software Binaries</i> Thomas Panas, Lawrence Livermore National Laboratory, Livermore, California, USA
17:15	<i>Supporting the Understanding of the Evolution of Open Source Software Items</i> Roberto Theron, Antonio Gonzalez, and Francisco José Garcia Peñalvo, University of Salamanca, Spain
17:30	<i>Rapid Visual Design with Semantics Encoding through 3d CRC Cards</i> Anthony Savidis, Foundation for Research and Technology Hellas, Heraklion, Crete, Greece
17:45 – 18:00	Final Words and Symposium Close