September 16–17, 2008
Herrsching am Ammersee, Germany

Symposium at a Glance

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Thank You to Our Symposium Sponsors
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<td>08:45 – 09:00</td>
<td>Welcome and Opening Words</td>
<td>Rainer Koschke, General Chair, SOFTVIS 2008</td>
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<td>09:00 – 10:30</td>
<td>SV for Understanding</td>
<td>(Session Chair: C. Hundhausen)</td>
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<td>09:00</td>
<td>Assessing the Benefits of Synchronization-Adorned Sequence Diagrams: Two Controlled Experiments</td>
<td>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</td>
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<td>09:30</td>
<td>Visualization of Exception Handling Constructs to Support Program Understanding</td>
<td>Hina Shah, Carsten Goerg, and Mary Jean Harrold, Georgia Institute of Technology, Atlanta, Georgia, USA</td>
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<td>10:00</td>
<td>Visual Analysis of Importance and Grouping in Software Dependency Graphs</td>
<td>Christian Pich, University of Konstanz, Germany; Lev Nachmanson and George Robertson, Microsoft Research, Redmond, Washington, USA</td>
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<td>10:15</td>
<td>Algorithm Visualization Using Concrete and Abstract Shape Graphs</td>
<td>Sascha Parduhn, Raimund Seidel, and Reinhard Wilhelm, Saarland University, Saarbrücken, Germany</td>
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<td>10:30 – 11:00</td>
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<td>11:00 – 12:30</td>
<td>SV for Testing and Debugging</td>
<td>(Session Chair: A. Telea)</td>
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<td>11:00</td>
<td>Analyzing the Reliability of Communication between Software Entities Using a 3D Visualization of Clustered Graphs</td>
<td>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</td>
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<td>11:30</td>
<td>HDPV: interactive, faithful, in-vivo runtime state visualization for C/C++ and Java</td>
<td>Jaishankar Sundararaman, Godmar Back, Virginia Tech, Blacksburg, Virginia, USA</td>
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<td>12:00</td>
<td>Representing Unit Test Data for Large Scale Software Development</td>
<td>Joseph Cottam, Joshua Hursey, and Andrew Lumsdaine, Indiana University, Bloomington, Indiana, USA</td>
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<td>12:30 – 14:00</td>
<td>Lunch</td>
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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 Dachselt, 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 Dachselt, 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-Martínez, Jaime Urquiza-Fuentesy, and J. Ángel Velázquez-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

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