

13th IEEE International Workshop on Program Comprehension

IWPC 2005 Program

General Chair
Jonathan I. Maletic, Kent State University, USA

Program Chairs
James R. Cordy, Queens University, Canada
Harald Gall, University of Zurich, Switzerland

Day 1 – Sunday May 15 th		
	St. Louis Ballroom G	St. Louis Ballroom H
9:00 – 9:15AM	Opening Remarks Session Chair: Jonathan I. Maletic, Kent State University	
9:15 – 10:30AM	Keynote Speaker Session Chair: James R. Cordy, Queens University Comprehension through Derivation Douglas R. Smith Kestrel Institute, USA	
10:30 – 11:00AM	Coffee break	
11:00 – 12:30PM	T1: Concerns & Concepts Session Chair: Harald Gall, University of Zurich <i>A Qualitative Comparison of Three Aspect Mining Techniques</i> Mariano Ceccatto, ITC-irst, Italy; Marius Marin, Delft University, The Netherlands; Kim Mens, Université catholique de Louvain, Belgium; Leon Moonen, Delft University & CWI, The Netherlands; Paolo Tonella, ITC-irst, Italy; and Tom Tourwe, CWI, The Netherlands <i>Understanding Concerns in Software: Insights Gained from Two Case Studies</i> Meghan Revelle, Tiffany Broadbent, and David Coppit, The College of William and Mary, USA <i>Static Techniques for Concept Location in Object Oriented Code</i> Andrian Marcus, Václav Rajlich, Joseph Buchta, Maksym Petrenko, and Andrey Sergeev, Wayne State University, USA	T2: Theories of Program Comprehension Session Chair: Hausi A. Müller, University of Victoria <i>Presenting Micro-theories of Program Comprehension in Pattern Form</i> Adam Murray and Timothy Lethbridge, University of Ottawa, Canada <i>An Investigation into Professional Programmers' Mental Representations of Variables</i> Jorma Sajaniemi, University of Joensuu, Finland; and Raquel Navarro Prieto, Universitat Pompeu, Spain <i>An Investigation of Java Abstraction Usage during Modification</i> Pamela O'Shea, University of Limerick, Ireland
12:30 – 2:00PM	Lunch – St. Louis D	
2:00 – 3:30PM	T3: Framework Understanding Session Chair: Martin Pinzger, University of Zurich <i>Identifying and Addressing Problems in Framework Reuse</i> Douglas Kirk, Marc Roper, and Murray Wood, University of Strathclyde, UK <i>What Can Programmer Questions Tell Us about Frameworks?</i> Daqing Hou, Avra Software Lab Inc., Canada; and Kenny Wong and H. James Hoover, University of Alberta, Canada <i>Concise and Consistent Naming</i> Florian Deissenboeck and Markus Pizka, Technische Universität München, Germany	Working Session 1: Textual Views of Source-Code to Support Comprehension Anthony Cox, Dalhousie University, Canada Michael L. Collard, Kent State University, USA
3:30 – 4:00PM	Coffee break	

Day 1 (continued)– Sunday May 15th

St. Louis Ballroom G

St. Louis Ballroom H

<p>4:00 – 5:30PM</p>	<p>T4: Empirical Studies Session Chair: Kenny Wong, University of Alberta</p> <p><i>On the Comprehension of Security Risk Scenarios</i> Ida Hogganvik and Ketil Stølen, SINTEF ICT, Oslo, Norway</p> <p><i>Modelling the Information Behaviour of Programmers--An Empirical Approach</i> Michael P. O'Brien and Jim Buckley, University of Limerick, Ireland</p> <p><i>A COTS Component Comprehension Process</i> Anneliese A. Andrews, Andreas Stefik, and Nina Picone, Washington State University, USA; and Sudipto Ghosh, Colorado State University, USA</p>	<p>Tool Demonstrations Session Chair: Gerald Gannod, Arizona State University</p> <p><i>The CodeSurfer Software Understanding Platform</i> Paul Anderson and Mark Zarins, GrammaTech, Inc., USA</p> <p><i>JRipples: A Tool for Program Comprehension during Incremental Change</i> Jonathan Buckner, Joseph Buchta, Maksym Petrenko, and Václav Rajlich, Wayne State University, USA</p> <p><i>Visualizing the Behavior of Dynamically Modifiable Code</i> Bradley Dux, Anand Iyer, Saumya Debray, David Forrester, and Stephen Kobourov, University of Arizona, USA</p> <p><i>HyperSoft System: Tool Demonstration and Use Example</i> Jussi Koskinen, University of Jyväskylä, Finland</p> <p><i>SEAT: A Usable Trace Analysis Tool</i> Abdelwahab Hamou-Lhadj, Timothy C. Lethbridge, and Lianjiang Fu, University of Ottawa, Canada</p> <p><i>REGoLive: Web Site Comprehension with Viewpoints</i> Grace Gui, Holger M. Kienle, and Hausi A. Müller, University of Victoria, Canada</p> <p><i>CHET: Checking Specifications in Java Systems</i> Steven P. Reiss, Brown University, USA</p> <p><i>JIVE and JOVE: Java as It Happens</i> Steven P. Reiss and Emmanuel Manos Renieris, Brown University, USA</p> <p><i>NavTracks Demonstration: Supporting Navigation in Software Space</i> Janice Singer, National Research Council, Canada; and Robert Elves and Margaret-Anne Storey, University of Victoria, Canada</p> <p><i>Browsing Software Architectures with LSEdit</i> Nikita Synytskyy, Richard C. Holt, and Ian Davis, University of Waterloo Canada</p>
	<p>7:00 – 10:00PM</p> <p>Social Event: Cocktail Party – off site at Bistro at Grand Center</p>	

Day 2 – Monday May 16 th		
St. Louis Ballroom G		St. Louis Ballroom H
9:00 – 9:15AM	Opening Remarks Session Chair: Jonathan I. Maletic, Kent State University	
9:15 – 10:30AM	Keynote Speaker Session Chair: Harald Gall, University of Zurich <i>Theories, Methods, and Tools in Program Comprehension Past, Present, and Future</i> Margaret-Anne Storey, University of Victoria, Canada	
10:30 – 11:00AM	Coffee break	
11:00 – 12:30PM	T5: Code Understanding and Refactoring Session Chair: Michele Lanza, University of Lugano <i>Design and Implementation of an Extensible and Modifiable Refactoring Tool</i> Katsuhisa Maruyama, Ritsumeikan University, Japan; and Shinichiro Yamamoto, Aichi Prefectural University, Japan <i>Detecting and Visualizing Refactorings from Software Archives</i> Carsten Görg, Saarland University, Germany; and Peter Weißgerber, Catholic University Eichstätt, Germany <i>Understanding Object-Oriented Source Code from the Behavioural Perspective</i> Neil Walkinshaw, Marc Roper, and Murray Wood, University of Strathclyde, UK	T6: Dynamic Analysis Session Chair: Susan Elliott Sim, University of California at Irvine <i>An (Architecture-Centric) Approach for Tracing, Organizing, and Understanding Events in Event-based Software Architectures</i> Scott A. Hendrickson, Eric M. Dashofy, and Richard N. Taylor, University of California, Irvine, USA <i>Module Evolution Tracking through Execution Trace Analysis</i> M. Fischer and J. Oberleitner, Technical University of Vienna, Austria; and Harald Gall, University of Zurich, Switzerland; and T. Gschwind, IBM Research, Switzerland <i>Efficient Monitoring and Display of Thread State in Java</i> Steven P. Reiss, Brown University, USA
12:30 – 2:00PM	Lunch – St. Louis D	
2:00 – 3:30PM	T7: Clustering and Components Session Chair: Keith Gallagher, Loyola College in Maryland <i>Clustering Software Artifacts Based on Frequent Common Changes</i> Dirk Beyer, EPFL, Switzerland; and Andreas Noack, BTU Cottbus, Germany <i>Software Clustering Based on Omnipresent Object Detection</i> Zhihua Wen and Vassilios Tzerpos, York University, Canada <i>Achieving a Reuse Perspective within a Component Recovery Process: An Industrial Scale Case Study</i> Andrew Le Gear, Jim Buckley, Brendan Cleary, and J.J. Collins, University of Limerick, Ireland; and Kieran O'Dea, QAD Ltd., Ireland	Working Session 2: Interoperable Reengineering Services Dean Jin, University of Manitoba, Canada Andreas Winter, University of Koblenz-Landau, Germany
3:30 – 4:00PM	Coffee break	

Day 2 (continued)– Monday May 16th

St. Louis Ballroom G

St. Louis Ballroom H

4:00 – 5:30PM	<p>T8: Software Visualization Session Chair: Stephan Diehl, Catholic University Eichstatt</p> <p><i>Adding Control-Flow to a Visual Data-Flow Representation</i> David Dearman and Anthony Cox, Dalhousie University, Canada; and Maryanne Fisher, Saint Mary's University, Canada</p> <p><i>Supporting the Evolution of a Software Visualization Tool through Usability Studies</i> Andrian Marcus, Andrey Sergeev, and Denise Comorski, Wayne State University, USA</p> <p><i>On Evaluating the Layout of UML Class Diagrams for Program Comprehension</i> Dabo Sun and Kenny Wong, University of Alberta, Canada</p>	<p>T9: Short Papers Session Chair: Václav Rajlich, Wayne State University</p> <p><i>An Empirical Study of the Use of Friends in C++ Software</i> Michael English, Jim Buckley, and Tony Cahill, University of Limerick, Ireland; and Kristian Lynch, Lund University, Sweden</p> <p><i>Identifying Duplicated Functionalities in Web Applications Using Clone and Cluster Analysis</i> Andrea Delucia, Rita Francese, and Genofeffa Tortora, Università di Salerno, Italy</p> <p><i>Visualizing the Behavior of Dynamically Modifiable Code</i> Bradley Dux, Anand Iyer, Saumya Debray, and Stephen Kobourov, University of Arizona, USA</p> <p><i>A Short Social History of Software Architecture</i> Susan Elliott Sim, University of California, Irvine, USA</p>
5:30 – 6:30PM	Closing Session & Open Steering Committee Meeting	