



[IWPC 2003 Homepage](#)

11th IEEE International Workshop on Program Comprehension

May 10-11, 2003
Hilton Portland Hotel
Portland, Oregon, USA

Co-located at [ICSE 2003, the 25nd IEEE/ACM
International Conference on Software Engineering](#)

IWPC Program [Saturday](#) [Sunday](#) [Tool Demos](#) [Program in PDF](#)

Saturday, May 10, 2003	
8:00–8:30	Breakfast <i>outside Salon I and II</i>
8:30–8:45	Welcome <i>Salon I and II</i>
8:45–10:00	Keynote IWPC <i>Salon I and II</i> How Understanding and Restructuring Differ from Compiling: A Rewriting Perspective Paul Klint, Centrum voor Wiskunde en Informatica, The Netherlands
10:00–10:30	Nutrition Break <i>outside Salon I and II</i>

10:30–12:00	<p>Technical Papers <i>Salon I and II</i></p> <p>Static Analysis Techniques</p> <p>Session Chair Keith Gallagher, Loyola College in Maryland, USA</p> <p>YAAB (Yet Another AST Browser): Using OCL to Navigate ASTs Giuliano Antoniol and Massimiliano Di Penta, RCOST - Research Centre on Software Technology; and Ettore Merlo, Ecole Polytechnique de Montréal, Canada</p> <p>Design Recovery of a Two Level System Thomas Dean and Yuling Chen, Queen's University, Canada</p> <p>Effective, Automatic Procedure Extraction Raghavan Komondoor and Susan Horwitz, University of Wisconsin-Madison, USA</p>	<p>Technical Papers <i>Salon III</i></p> <p>Program Understanding Tools and Techniques</p> <p>Session Chair Dave Binkley, Loyola College in Maryland, USA</p> <p>Understanding Change-Proneness in OO Software through Visualization James M. Bieman, Colorado State University, USA; Anneliese A. Andrews, Washington State University, USA; and Helen J. Yang, Colorado State University, USA</p> <p>Analyzing and Understanding Architectural Characteristics of COM+ Components Martin Pinzger, Johann Oberleitner, and Harald Gall, Vienna University of Technology, Austria</p> <p>A Tool For Understanding Multi-Language Program Dependencies Panagiotis K. Linos, Zhihong Chen, Seth Berrier, and Brian O'Rourke, Butler University, USA</p>
12:00–1:15	Lunch <i>Grand Ballroom</i>	
1:15–2:45	<p>Technical Papers <i>Salon I and II</i></p> <p>Dynamic Analysis Techniques</p> <p>Session Chair Giulio Antoniol, Universite degli Studi del Sannio, Italy</p> <p>Event-Based Performance Analysis Steven P. Reiss, Brown University, USA</p> <p>Applying the Decorator Pattern for Profiling Object-</p>	<p>Technical Papers <i>Salon III</i></p> <p>Program Comprehension Approaches</p> <p>Session Chair Margaret-Anne Storey, University of Victoria, Canada</p> <p>Comprehension of Software Analysis Data Using 3D Visualization Andrian Marcus, Louis Feng, and Jonathan I. Maletic, Kent State University, USA</p>

Oriented Software

Edward B. Duffy, Clemson University, USA; J. Paul Gibson, National University of Ireland at Maynooth, Ireland; and Brian A. Malloy, Clemson University, USA

Automatic Design Pattern Detection

Dirk Heuzeroth and Thomas Holl, University of Karlsruhe, Germany; and Gustav Höglström and Welf Löwe, University of Vä xjö Sweden

Identifying Comprehension Bottlenecks Using Program Slicing and Cognitive Complexity Metrics

Juergen Rilling and Tuomas Klemola, Concordia University, Montreal

Facilitating Program Comprehension by Mining Association Rules from Source Code

Christos Tjortjis, Loukas Sinos, and Paul Layzell, UMIST, UK

2:45–3:15

Nutrition Break *outside Salon I and II*

3:15–4:45

Technical Papers *Salon I and II***Fact Extraction Techniques****Session Chair**

Scott Tilley, Florida Institute of Technology, USA

An XML-Based Lightweight C++ Fact Extractor

Michael L. Collard, Huzefa Kagdi, and Jonathan I. Maletic, Kent State University, USA

Generalized Selective XML Markup of Source Code Using Agile Parsing

James R. Cordy, Queen's University, Canada

Syntactic Approximation Using Iterative Lexical Analysis

Anthony Cox and Charles Clarke, University of Waterloo, Canada

Technical Papers *Salon III***Comprehension Frameworks and Evaluation****Session Chair**

Harald Gall, Technische Universität Wien, Austria

Blooms' Taxonomy: A Framework for Assessing Programmers' Knowledge of Software Systems

Jim Buckley and Chris Exton, University of Limerick, Ireland

Individual Differences in Program Comprehension Strategies in Unfamiliar Environments

Andrew J. Ko, Carnegie Mellon University, USA; and Bob Uttil, Oregon State University, USA

Observing and Measuring Cognitive Support: Steps Toward Systematic Tool Evaluation and Engineering

Andrew Walenstein, University of Louisiana at Lafayette, USA

4:45–5:45	Working Session 1 <i>Salon I and II</i> Graphical Documentation for Programmers: Assessing the Efficacy of UMI Diagrams for Program Understanding Shihong Huang, University of California, Riverside, USA; and Scott Tilley, Florida Institute of Technology, USA
5:45–6:15	Open Steering Committee Meeting <i>Salon I and II</i>
7:00–10:30	Dinner <i>TBA</i>

Sunday, May 11, 2003

8:00–8:30	Breakfast <i>outside Salon I and II</i>	
8:30–8:45	IWPC 2004 and Report from Steering Committee <i>Salon I and II</i>	
8:45–10:00	Keynote <i>Salon I and II</i> Comprehending Reality: Practical Barriers to Industrial Adoption of Software Maintenance Automation James R. Cordy, Queen's University, Canada	
10:00–10:30	Nutrition Break <i>outside Salon I and II</i>	
10:30–12:00	Technical Papers <i>Salon I and II</i> Clustering Applications and Evaluation Session Chair Panos Linos, Butler University, USA Using Clustering to Support the Migration from Static to Dynamic Web Pages Filippo Ricca and Paolo Tonella, and ITC-irst, Italy Software Components Capture using Graph Clustering Yves Chiricota, Université du Québec à Chicoutimi, Canada; Fabien Jourdan, and Guy Melançon,	Technical Papers <i>Salon III</i> Short Papers 1 Session Chair Jonathan I. Maletic, Kent State University, USA Scaling an Object-Oriented System Execution Visualizer through Sampling Andrew Chan, Reid Holmes, Gail C. Murphy, and Annie T. T. Ying, University of British Columbia, Canada Using Run-Time Data for Program Comprehension Thomas Gschwind, Johann Oberleitner, and Martin Pinzger, Technische Universität Wien, Austria

	Université Montpellier II, France An Optimal Algorithm for MoJo Distance Zihua Wen and Vassilios Tzerpos, York University, Canada	Are Decomposition Slices Clones? Keith Gallagher and Lucas Layman, Loyola College in Maryland, USA
12:00–2:00	Lunch <i>Alexander's on the 23rd floor</i>	
2:00–3:30	Working Session 2 <i>Salon I and II</i> Experiences in Teaching Reengineering and Program Comprehension Arie van Deursen, CWI, The Netherlands; Jean-Marie Favre, University of Grenoble, France; Rainer Koschke, University of Stuttgart, Germany; and Juergen Rilling, Concordia University, Montreal	Working Session 3 <i>Salon III</i> Towards a Clone Detection Benchmark Suite and Results Archive Arun Lakhotia, Junwei Li, Andrew Walenstein, and Yun Yang, University of Louisiana at Lafayette, USA
3:30–4:00	Nutrition Break <i>Salon I and II</i>	
4:00–5:30	Technical Papers <i>Salon I and II</i> Short Papers 2 Session Chair Chris Exton, University of Limerick, Ireland Verification of Recovered Software Architectures Gerald C. Gannod and Shilpa Murthy, Arizona State University, USA Enhancing Domain-Specific Software Architecture Recovery Igor Ivkovic and Michael Godfrey, University of Waterloo, Canada Handling Large Search Space in Pattern-based Reverse Engineering Joerg Niere, Joerg P. Wadsack, and Lothar Wendehals, University of Paderborn, Germany	
5:30–5:45	Closing and IWPC 2004 <i>Salon I and II</i>	

TALK2C: A Tool for Automatic Migration

S. D. Jacob and M. Das

Comprehending and Visualizing Software Based on XML—Representations and Call Graphs

M. Hopfner, D. Seipel, and J. Wolff von Gudenberg

Visualizing Interactions in Distributed Java Applications

N. Bawa and S. Ghosh

CrocoPat: Efficient Pattern Analysis in Object-Oriented Programs

D. Beyer and C. Lewerentz

Isolating Cause-Effect Chains with AskIgor

A. Zeller

gccXfront: Exploiting gcc as a Front End for Program Comprehension Tools via XML/XSL

M. Hennessy, B. A. Malloy, and J. F. Power