

VL/HCC'07

2007 IEEE Symposium on Visual Languages and Human-Centric Computing September 23–27, 2007 Coeur d'Alene, Idaho, USA

Symposium at a Glance

	Sunday		Monday	Tuesday	Wednesday	Thursday
	Bay 1A	Bay 1B	Bay 3	Bay 3	Bay 3	Bay 1A
Early Morning	↑	↑	Opening Keynote: Colin Ware	Domain-Specific and End-User Tools	Web Development Approaches	↑
Late Morning	Graduate Student Consortium	Workshop on Visual Languages and Logic (VLL '07)	Empirical Studies I NSF Programs	End User Programming Evaluations	Empirical Studies II	Workshop on Layout of (Software) Engineering Diagrams (LED '07)
Early Afternoon			Software Engineering Theory	Visualization Approaches	Closing Keynote: George Robertson	
Late Afternoon	↓	↓	Teaching and Learning	Formal Methods		↓
Evening			Welcome Reception (Begins 18:00, Casco Bay)	Banquet Cruise (Boards 17:15- 17:45 from dock)		

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Monday, September 24

- 09:00 – 09:15 **Welcome and Opening Words**
Chris Hundhausen, General Chair, VL/HCC 2007
- 09:15 – 10:30 **Opening Keynote** (Session Chair: C. Hundhausen)
Patterns and Words, Logic and Narrative: What Can We Expect of a Visual Language?
Colin Ware, Data Visualization Research Lab, University of New Hampshire, USA
- 10:30 – 11:00 **Break**
- 11:00 – 12:00 **Empirical Studies** (Session Chair: M. Erwig)
- 11:00 Scents in Programs: Does Information Foraging Theory Apply to Program Debugging?
Joseph Lawrance, Oregon State University, Corvallis, USA; Rachel Bellamy, IBM T.J. Watson Research, Hawthorne, New York, USA; and Margaret Burnett, Oregon State University, Corvallis, USA
- 11:30 A Comprehensive Evaluation of Workspace Awareness in Software Configuration Management Systems
Anita Sarma, André van der Hoek, and David Redmiles, University of California, Irvine, USA
- 11:45 Introductory Computing Construct Use in an End-User Programming Community
Brian Dorn, Allison Elliott Tew, and Mark Guzdial, Georgia Institute of Technology, Atlanta, USA
- 12:00 – 12:30 **The NSF Human-Centered Computing Program** (Session Chair: S. Tanimoto)
Amy L. Baylor, Program Director, Human-Centered Computing, Division of Information and Intelligent Systems, National Science Foundation, USA
- 12:30 – 14:00 **Lunch (on your own)**
- 14:00 – 15:30 **Software Engineering Theory** (Session Chair: P. Bottoni)
- 14:00 Towards Overcoming Deficiencies in Constraint Diagrams
Gem Stapleton and Aidan Delaney, University of Brighton, Brighton, UK
- 14:30 Visual qualities of the Unified Modeling Language: Deficiencies and Improvements
Andrew Fish, University of Brighton, Brighton, UK and Harald Störrle, Leopold-Franzens-Universität, Innsbruck, Austria
- 15:00 Mapping the Space of API Design Decisions
Jeffrey Stylos and Brad Myers, Carnegie Mellon University, Pittsburgh, USA
- 15:30 – 16:00 **Break**
- 16:00 – 17:30 **Teaching and Learning** (Session Chair: M. Petre)
- 16:00 A Study on Applying Roles of Variables in Introductory Programming
Pauli Byckling and Jorma Sajaniemi, University of Joensuu, Joensuu, Finland
- 16:30 Antecedents to End Users' Success in Learning to Program
Susan Wiedenbeck, Xiaoning Sun, and Thippaya Chintakovid, Drexel University, Philadelphia, USA
- 16:45 Snapshots: Capturing Dynamics of Student Sketches
Sandra B. Fan and Steven L. Tanimoto, University of Washington, Seattle, USA
- 17:00 Controlling Transparency in an Online Learning Environment
Tyler Robison and Steven L. Tanimoto, University of Washington, Seattle, USA
- 17:15 Mobile Games to Foster the Learning of History at Archaeological Sites
C. Ardito, P. Buono, M.F. Costabile, R. Lanzilotti and T. Pederson, Dipartimento di Informatica, Università di Bari, Italy
- 18:00 – 20:00 **Welcome Reception** (Casco Bay)

Tuesday, September 25

08:50 – 10:15	Domain Specific and End User Tools (Session Chair: M. Burnett)
08:50	Enhancing the Programmability of Spreadsheets with Logic Programming <i>Philip T. Cox, Dalhousie University, Halifax, Canada</i>
09:20	MaramaTatau: Extending a Domain Specific Visual Language Meta Tool with a Declarative Constraint Mechanism <i>Karen Liu, John Hosking and John Grundy, University of Auckland, Auckland, New Zealand</i>
09:50	The Domain-Specific Language Monaco and its Visual Interactive Programming Environment <i>Herbert Prähofer, Dominik Hurnaus, Christian Wirth and Hanspeter Mössenböck, Johannes Kepler University, Linz, Austria</i>
10:15 – 10:45	Break
10:45 – 12:15	End User Programming Evaluations (Session Chair: S. Wiedenbeck)
10:45	Some problems of Professional End User Developers <i>Judith Segal, The Open University, Milton Keynes, UK</i>
11:15	On to the Real-World: Gender and Self-Efficacy in Excel <i>Laura Beckwith, Derek Inman, Kyle Rector, and Margaret Burnett, Oregon State University, Corvallis, USA</i>
11:45	Explaining Debugging Strategies to End-User Programmers <i>Neeraja Subrahmaniyan, Cory Kissinger, Kyle Rector, Derek Inman, Jared Kaplan, Laura Beckwith, and Margaret Burnett, Oregon State University, Corvallis, USA</i>
12:15 – 13:45	Lunch (on your own)
13:45 – 15:15	Visualization Approaches (Session Chair: M.F. Costabile)
13:45	Visual Modelling of Complex Business Processes with Trees, Overlays and Distortion-Based Displays <i>Lei Li, John Hosking and John Grundy, University of Auckland, Auckland, New Zealand</i>
14:15	EulerView: a Non-hierarchical Visualization Component <i>Rosario De Chiara, Universita degli Studi di Salerno, Italy and Andrew Fish, University of Brighton, Brighton, UK</i>
14:45	Trace Visualization and Exploration for Reactive Systems <i>Shahar Maoz, Asaf Kleinbort, David Harel, The Weizmann Institute of Science, Rehovot, Israel</i>
15:00	Building an Ecologically-valid, Large-scale Diagram to Help Developers Stay Oriented in Their Code <i>Mauro Cherubini, École Polytechnique Fédérale de Lausanne, Switzerland; Gina Venolia and Rob DeLine, Microsoft Research, Redmond, USA</i>
15:15 – 15:30	Break
15:30 – 17:00	Formal Methods For Domain-Spec. & End User Apps. (Session Chair: A. Fish)
15:30	Action Patterns for the Specification of the Execution Semantics of Visual Languages <i>Paolo Bottoni, Universita La Sapienza, Rome, Italy; Juan de Lara, Universidad Autónoma, Madrid, Spain and Esther Guerra, Universidad Carlos III, Madrid, Spain</i>
16:00	subTextile: Reduced Event-Oriented Programming System for Sensate Actuated Materials <i>Sajid Sadi and Pattie Maies, MIT Media Lab, Boston, USA</i>
16:15	Model-driven Quality Assurance for End Users <i>Steven Bucuvalas, ioSemantics LLC, Buffalo Creek Colorado USA and Clayton Lewis, University of Colorado, Boulder, USA</i>
16:30	A Domain Specific Language for Control Systems GUI Specification, Verification and Prototyping <i>Matteo Risoldi and Didier Buchs, Universite de Geneve, Carouge, Switzerland</i>
16:45	Representations and Strategies for Efficiently Solving Visual problems in Diagrammatic Reasoning <i>Bonny Banerjee and B. Chandrasekaran, The Ohio State University, Columbus, Ohio, USA</i>
17:45 – 21:00	Banquet Cruise (Boarding from 17:15-17:45 at dock)

Wednesday, September 26

- 09:00 – 10:30 **Web Development Approaches** (Session Chair: E. Pietriga)
- 9:00 Design Planning in End User Web Development
Mary Beth Rosson, Hansa Sinha, Mithu Bhattacharya and Dejin Zhao, The Pennsylvania State University, USA
- 9:30 Scenario-Based Requirements for Web Macro Tools
Christopher Scaffidi, Carnegie Mellon University, Pittsburgh, USA; Allen Cypher and Sebastian Elbaum, IBM Almaden Research Center, Almaden, USA; Andhy Koesnandar, University of Nebraska-Lincoln, USA; and Brad Myers, Carnegie Mellon University, Pittsburgh, USA
- 10:00 Relational Blocks: A Visual Dataflow Language for Relational Web-Applications
Avraham Leff and James T. Rayfield, IBM T.J. Watson Research Center, Yorktown Heights, NY, USA
- 10:15 – 10:45 **Break**
- 10:45 – 12:15 **Empirical Studies II** (Session Chair: M.B. Rosson)
- 10:45 A Type System Based on End-User Vocabulary
Robin Abraham, Martin Erwig and Scott Andrew, Oregon State University, Corvallis, USA
- 11:15 Statechart Features and Pre-Release Defects in Software Maintenance
Jeanette Heidenberg and Andreas Nål's, OY L M Ericsson Ab, Jorvas, Finland
- 11:45 Children as Unwitting End-User Programmers
Marian Petre, The Open University, Milton Keynes, UK and Alan F. Blackwell, Cambridge University, UK
- 12:00 Evaluating an Automated Tool to Assist Evolutionary Document Generation
G. Gweon, Carnegie Mellon University, Pittsburgh, USA; L. Bergman, V. Castelli and R.K.E. Bellamy, , IBM T.J. Watson Research, Hawthorne, New York, USA
- 12:15 – 13:45 **Closing Luncheon (provided)** (Bay 5)
- 13:45 – 15:00 **Closing Keynote** (Session Chair: P. Cox)
Twelve Years of Visualization Research at Microsoft
George Robertson, Microsoft Research, USA
- 15:00 – 15:15 **Symposium Close** (Session Chair: M. Minas)