

## VL/HCC Schedule

	Tuesday, Sept 5	Wednesday Sep 6	Thursday Sept 7
09.00	Session 1 EU development	Session 3 Visual Languages	Session 6a Joint with PPIG Learning Programming
11.00	Morning tea	Morning Tea	Morning Tea
11.30	VL/HCC-SoftVis keynote <b>Ron Baecker</b>	Session 4a Interaction	Session 6b Joint with PPIG Learning Programming
12.30	Lunch	Lunch	Lunch
14.00	VL/HCC-SoftVis Joint panel session	Session 4b Interaction	VL/HCC-PPIG Keynote <b>Thomas Green</b>
15.00	Afternoon Tea	Afternoon Tea	Afternoon Tea
15.30	Session 2 Testing	Session 5 Process	Session 7 Visualisation

(See below for exact timings of tea breaks on Thursday)

### Co-located Events

**Monday, September 4 – Tuesday, September 5**

**SoftVis (Ashdown Suite)**

**Thursday, September 7 – Friday, September 8**

**PPIG (Ashdown Suite)**

**Wednesday, September 6**

**09.00-17.30 Graduate Student Consortium (Lancing One Suite)**

**Friday, September 8**

**09.00-17.30 Workshop: International Workshop on Graph and Model Transformation (GraMoT)  
(Lancing One Suite)**

### VL/HCC Schedule

(Arundel Suite, unless otherwise stated)

**Monday, September 5**

**09.00-12.30 Tutorial 1: Meta Tools For Implementing Domain Specific Visual Languages**  
John Grundy and John Hosking (Lancing One Suite)

**14.00-17.30 Tutorial 2: Cognitive Dimensions of Notations**  
Alan Blackwell and Thomas Green (Lancing One Suite)

**18.30-20.30 Joint VL/HCC-SoftVis Reception**  
Includes SoftVis Poster Display and Software Demos (Ashdown Suite)

## Tuesday, September 5

### 09.00-11.00 Welcome and Paper Session 1: EU Development (Chair: John Hosking)

Pair Collaboration in End-User Debugging (F)

*Thippaya Chintakovid, Susan Wiedenbeck, Margaret Burnett and Valentina Grigoreanu*

Code Thumbnails: Using Spatial Memory to Navigate Source Code (F)

*Robert DeLine, Mary Czerwinski, Brian Meyers, Gina Venolia, Steven Drucker and George Robertson*

Gender Differences in End-User Debugging, Revisited: What the Miners Found (F)

*Valentina Grigoreanu, Laura Beckwith, Xiaoli Fern, Sherry Yang, Chaitanya Komireddy, Vaishnavi Narayanan, Curtis Cook and Margaret Burnett*

AgentCubes: Raising the Ceiling of End-User Development in Education through Incremental 3D (S)

*Alexander Repenning and Andri Ioannidou*

### 11.30-12.30 Joint VL/HCC-SoftVis Keynote: Ron Baecker

### 14.00-15.00 Joint VL/HCC-SoftVis Special Session: How to Succeed at SV/VLHCC Research

*Margaret Burnett, John Stasko, John Hosking and the SV/VLHCC audience*

This session will be a mini-tutorial, conducted by the above presenters and also interactively by the audience itself, on how to succeed at these aspects of SV and VL/HCC research projects:

- How to do it: choosing and conducting a significant SV/VLHCC research project.
- How to write it: Writing a SV/VLHCC research paper that has a good chance of being accepted.
- How to transfer it: Transferring your research to industry effectively.

### 15.30-17.15 Paper Session 2: Testing (Chair: Andy Schürr)

Sharing reasoning about faults in spreadsheets: An empirical study (F)

*Joseph Lawrance, Robin Abraham, Margaret Burnett and Martin Erwig*

AutoTest: A Tool for Automatic Test Case Generation in Spreadsheets (F)

*Robin Abraham and Martin Erwig*

Using Visual Momentum to Explain Disorientation in the Eclipse IDE (S)

*Brian De Alwis and Gail Murphy*

VizEval - An Experimental System for the Study of Program Visualization Quality (S)

*Philippa Rhodes, Eileen Kraemer, Elizabeth Davis, Ashley Hamilton-Taylor and Kenneth Hailston*

Dimensions Characterizing Programming Feature Usage by Information Workers (S)

*Christopher Scaffidi, Andrew Ko, Brad Myers and Mary Shaw*

## Wednesday, September 6

### 09.00-11.00 Paper Session 3: Visual Languages (Chair: Phil Cox)

Specification and Construction of Control Flow Semantics (F)

*Ruben Smelik, Arend Rensink and Harmen Kastenber*

An Agent-Based Framework for Context-Driven Interpretation of Symbols in Diagrammatic Sketches (F)

*Giovanni Casella, Gennaro Costagliola, Vincenzo Deufemia, Maurizio Martelli and Viviana Mascardi*

MOSL: Composing a Visual Language for a Metamodeling Framework (S)

*Carsten Amelunxen, Alexander Königs, Tobias Rötschke and Andy Schürr*

Constraining Concrete Syntax via Metamodel Information (S)

*Paolo Bottoni, Paolo Quattrocchi and Domenico Ventriglia*

Guided Model Creation: A Task-Driven Approach (S)

*Samuel Lahtinen, Jari Peltonen, Imed Hammouda and Kai Koskimies*

### 11.30-12.30 Paper Session 4a: Interaction (Chair: Gregor Engels)

Sketching with Conceptual Metaphors to Explain Computational Processes (F)

*David Hendry*

A Multi-layer Parsing Strategy for On-line Recognition of Hand-drawn Diagrams (F)

*Gennaro Costagliola, Vincenzo Deufemia and Michele Risi*

### 14.00-15.00 Paper Session 4b: Interaction (Chair: Andrew Fish)

Inking in the IDE: Experiences with Pen-based Design and Annotation (S)

*Beryl Plimmer, John Grundy, John Hosking and Richard Priest*

Design and Assessment of a Speech-Based Programming Environment (S)

*Andrew Begel and Susan Graham*

Languages, tasks, and roles: modelling interaction through resources (S)

*Paolo Bottoni and Stefano Levialdi*

### 15.30-17.15 Paper Session 5: Process (Chair: John Grundy)

A Linguistic Analysis of How People Describe Software Problems (F)

*Andrew Ko, Brad Myers and Duen Horng Chau*

A Pattern-driven Development Process for Quality Standard-conform Business Process Models (F)

*Alexander Förster, Ragnild Van Der Straeten, Gregor Engels and Tim Schattkowsky*

Representing transient social information using a text-based interface and visual-based interface to an online course (S)

*Luciane Fadel and Mary Dyson*

DAE: a Visualization-based System for Data Analysis ((S)

*Paolo Buono, Carmelo Ardito, Maria Francesca Costabile, Rosa Lanzilotti and Antonio Piccinno*

Work, play, and in-between: Exploring the role of work context for informal web developers (S)

*Mary Beth Rosson and Sue Kase*

### 19.00 Conference Meal at the Royal Pavilion

## Thursday, September 7

### 09.00-11.00 Paper Session 6a: Learning Programming (Chair: Alan Blackwell)

Can Direct Manipulation Lower the Barriers to Programming and Promote Positive Transfer to Textual Programming? An Experimental Study (F)  
*Christopher Hundhausen, Sean Farley and Jon Brown*

Representing parallelism in a control language designed for young children (S)  
*Peter Whalley*

From WebSpace to Workspace and Back Again: Seamless Instantiation, Composition, and Use of Interactive Project Objects (S)  
*Dejin Zhao and Mary Beth Rosson*

This session also includes these presentations from the PPIG conference:

A Competence Model for Object-Interaction in Introductory Programming  
*Jens Bennedsen and Carsten Schulte.*

Subsetability as a New Cognitive Dimension?  
*Robert M. Dondero, Jr. and Susan Wiedenbeck.*

Threshold for the Introduction of Programming: Providing Learners with a Simple Computer Model  
*Joseph T. Khalife.*

### 11.15-13.00 Paper Session 6b: Learning Programming (Chair: Susan Wiedenbeck)

Lessons Learned from Designing a Programming System to Support Middle School Girls Creating Animated Stories (F)  
*Caitlin Kelleher and Randy Pausch*

ScriptCards: A Visual Programming Language for Games Authoring by Young People (S)  
*Katherine Howland, Judith Good and Judy Robertson*

This session also includes these presentations from the PPIG conference:

The Effect of Using Problem-Solving Tutors on the Self-Confidence of Students  
*Amruth N Kumar.*

Teaching Programming: Going beyond “Objects First”  
*Jorma Sajaniemi and Chenglie Hu.*

Why Don't They Do What We Want Them to Do  
*Shmuel Schwarz, Mordechai Ben-Ari.*

### 14.30-15.30 Joint VL/HCC-PPIG Keynote: Thomas Green

**15.45-17.30 Paper Session 7: Visualisation (Chair: James Noble)**

Relo: Helping Users Manage Context during Interactive Exploratory Visualization of Large Codebases (F)  
*Vineet Sinha, David Karger and Rob Miller*

Mica: A Web-Search Tool for Finding API Components and Examples (F)  
*Jeffrey Stylos and Brad Myers*

The Visula programming language and environment (S)  
*Calum Grant*

Visual Communication in Virtual 3D Environments (S)  
*Caterina Poggi and Nicoletta Di Blas*

Visual Snippet Editor: Success with Less (S)  
*Randy Giffen, Greg Adams, Kevin McGuire, Raymond Tsui and Henning Hoffmann*

(F) Full paper – 30 minute presentation

(S) Short paper – 15 minute presentation