Program

The Diagrams 2008 technical program includes three keynote talks, two tutorials, 28 paper presentations and 28 poster presentations.

The following is a draft program for Diagrams 2008 and is subject to change.

Friday, September 19

8:00 – 9:00	Registration
9:00 – 10:30	Session 1: Welcome and Keynote (joint with VL/HCC) Chair: Mark Minas Room: Großer Saal
	Model Driven Development with Mechatronic UML Professor Dr Wilhelm Schafer
10:30 - 11:00	Break
11:00 – 12:45	Session 2: Diagram Aesthetics and Layout (joint with VL/HCC) Chair: Paolo Bottoni Room: Großer Saal
	General Euler Diagram Generation Peter Rodgers, Leishi Zhang and Andrew Fish
	Euler Diagram Decomposition Andrew Fish and Jean Flower
	Smooth Linear Approximation of Non-overlap Constraints Graeme Gange, Peter Stuckey and Kim Marriott
	Extremes are Better: Investigating Mental Map Preservation in Dynamic Graphs Helen Purchase and Amanjit Samra
12:45 – 14:15	Lunch
14:15 – 15:30	Session 3: Modelling and Graphs (joint with VL/HCC) Chair: John Hosking Room: Großer Saal
	Design-Time Simulation of Domain-Specific Models by Incremental Pattern Matching (short) Istvan Rath, Dávid Vágó and Daniel Varro

Generic and Reflective Visual Specification of Modeling Guidelines with Graph Transformations

Carsten Amelunxen, Elodie Legros and Andy Schürr

A Model-Driven Approach for the Visual Specification of Role Based Access Control Policies in Web Systems

Paloma Diaz, Ignacio Aedo, Daniel Sanz and Alessio Malizia

The papers presented in this session are accepted for VL/HCC. Further information about the papers will be made available at the conference registration desk.

15:30 – 16:00 Break

16:00 – 17:30 Session 4: Psychological and Cognitive Issues

Chair: Stephanie Elzer Room: Seminarraum 3

An Eye-Tracking Study of Exploitations of Spatial Constraints in Diagrammatic Reasoning

Atsushi Shimojima and Yasuhiro Katagiri

What Diagrams Reveal about Representations in Linear Reasoning, and How they Help

Krista DeLeeuw and Mary Hegarty

What Can Pictorial Representations Reveal about the Cognitive Characteristics of Autism?

Maithilee Kunda and Ashok Goel

Visual Thinking with an Interactive Diagram (short) *Colin Ware, Anne Gilman and Robert Bobrow*

18:30 – 20:30 Evening Reception and Poster Session

The posters will be presented in two slots during the reception which takes place in the conference centre Lobby. A list of accepted posters and details on the slot in which they will be presented can be found below.

Saturday, September 20

9:00 – 11:00 Session 5: Tutorial

Room: Großer Saal

Cognitive Dimensions of Notations: Understanding the Ergonomics of Diagram Use

Alan Blackwell

11:00 – 11:30 Break

11:30 – 13:00 Session 6: Tutorial

Room: Großer Saal

Getting Started With Sketch Tools: A Tutorial on Sketch Recognition

Tools

Beryl Plimmer and Tracy Hammond

13:00 – 14:30 Lunch

14:30 – 15:45 Session 7: Keynote

Chair: Dave Barker-Plummer Room: Großer Saal

Heterogeneous Reasoning Professor John Etchemendy

15:45 – 16:15 Break

16:15 – 17:35 Session 8: Applications of Diagrams

Chair: Richard Cox Room: Großer Saal

Strategy Roadmaps: New Forms, New Practices

Alan Blackwell, Rob Phaal, Martin Eppler and Nathan Crilly

VAST Improvements to Diagrammatic Scheduling using

Representational Epistemic Interface Design

David Ranson and Peter Cheng

Enhancing State-Space Tree Diagrams for Collaborative Problem

Solving (short)
Steven Tanimoto

Visual Programming with Interaction Net (short)

Abubaker Hassan, Ian Mackie and Jorge Sousa Pinto

18:30 Bus departs for Banquet

19:00 Conference Banquet

The banquet will take place at Muehlfelder Brauhaus and will include a

brewery tour and beer tasting.

Sunday, September 21

9:00 – 11:00 Session 9: Theoretical Aspects

Chair: Nik Swoboda Room: Großer Saal

Spider diagrams of Order and a Hierarchy of Star-Free Regular

Languages

Aidan Delaney, John Taylor and Simon Thompson

Diagrammatic Reasoning System with Euler Circles: Theory and Experiment Design

Koji Mineshima, Mitsuhiro Okada, Ryo Takemura and Yuri Sato

A Normal Form for Euler Diagrams with Shading Andrew Fish, Chris John and John Taylor

Ensuring Generality in Formalizations of Euclid's Diagrammatic Arguments *John Mumma*

Depicting Negation in Diagrammatic Logic: Legacy and Prospects (short)

Fabien Schang and Amirouche Moktefi

11:00 – 11:30 Break

11:30 – 12:45 Session 10: Keynote

Chair: Mary Hegarty Room: Großer Saal

Rich Data Representation: Sophisticated Visual Techniques for Ease and

Clarity

W. Bradford Paley

12:45 – 14:00 Lunch

14:00 – 15:30 Session 11: Diagrams in Education

Chair: Andrew Fish Room: Großer Saal

Transforming Descriptions and Diagrams to Sketches in Information System Design

Barbara Tversky, James E. Corter, Jeffrey V. Nickerson, Doris Zahner and Yun Jin Rho

Graphical revelations: Comparing students' translation errors in graphics and logic (short)

Richard Cox, Robert Dale, John Etchemendy and Dave Barker-Plummer

Learning from animated diagrams: How are mental models built? *Richard Lowe and Jean-Michel Boucheix*

Diagrams for the Masses: Raising public awareness - from Neurath to Gapminder and Google Earth

Raul Niño Zambrano and Yuri Engelhardt

15:30 – 15:50 Break

15:50 – 17:30 Session 12: Understanding and Comprehension and Closing Remarks

Chair: Alan Blackwell Room: Großer Saal

Detection of Sample Differences from Dot Plot Displays Lisa Best, Laurence Smith and D. Alan Stubbs

Visualizing Non-Subordination and Multidominance in Tree Diagrams: Testing Five Syntax Tree Variants

Leonie M. Bosveld-de Smet and Mark de Vries

The Effects of Users' Background Diagram Knowledge and Task Characteristics Upon Information Display Selection Beate Grawemeyer and Richard Cox

Multimodal Comprehension of Graphics with Textual Annotations: The Role of Graphical Means Relating Annotations and Graph Lines (short) *Cengiz Acarturk, Christopher Habel and Kursat Cagiltay*

Poster Session 1: 18:30 – 19:00

Room: Lobby

Talk to the Hand: An Agenda for Further Research on Tactile Graphics *Frances Aldrich*

Openproof - A Flexible Framework for Heterogeneous Reasoning

Dave Barker-Plummer Dave, John Etchemendy, Albert Liu, Michael Murray and Nik Swoboda

Cognitive and Semantic Perspectives of Token Representation in Diagrams *Rossano Barone and Peter Cheng*

Estimating Effort for Trend Messages in Grouped Bar Charts *Richard Burns, Stephanie Elzer and Sandra Carberry*

Types and Programs from Euler Diagrams *James Burton*

Diagrams in the UK National School Curriculum *Grecia Garcia Garcia and Richard Cox*

LePUS3: An Object-Oriented Design Description Language Epameinondas Gasparis, Jonathan Nicholson and Amnon Eden

Utilizing Feature Diagrams to Assess the Capabilities of Tools that Support the Model Driven Architecture

Benjamin Gorry

Diagrammatic knowledge-based tools for complex multi-dynamic processes

Ronald Grau and Peter Cheng

Supporting Reasoning and Problem-Solving in Mathematical Generalisation with Dependency Graphs

Sergio Gutierrez Santos, Darren Pearce, Eirini Geraniou and Manolis Mavrikis

A Concept Mapping Tool for Nursing Education *Norio Ishii and Saori Sakuma*

Cognitive Methods for Visualizing Space, Time, and Agents *Angela Kessell and Barbara Tversky*

Benefits of Constrained Interactivity in Using a Three-Dimensional Diagram *Peter Khooshabeh, Mary Hegarty and Madeleine Keehner*

A Strategy for Drawing a Conceptual Neighborhood Diagram Schematically *Yohei Kurata*

Poster Session 2: 19:00 – 19:30

Room: Lobby

Supporting relational processing in complex animated diagrams *Richard Lowe and Jean-Michel Boucheix*

Animated Cladograms: Interpreting Evolution from Diagrams *Camillia Matuk*

Automatic Diagram Drawing based on Natural Language Text Understanding *Anirban Mukherjee and Utpal Garain*

Texts and graphs elaboration: the effect of graphs' examination on recall Gisella Paoletti and Sara Rigutti

Diagrammatic Logic of Existential Graphs: A Case Study of Commands *Ahti-Veikko Pietarinen*

Diagrammatic Reasoning in Separation Logic M. Ridsdale, M. Jamnik, N. Benton and J. Berdine

Method of Minimal Representation: An alternative Diagrammatic technique for testing the validity of Categorical Syllogisms

Sumanta Sarathi Sharma

The Relationship between Graph Comprehension and Spatial Imagery: Support for an Integrative Theory of Graph Cognition

Brandie Stewart, Aren Hunter and Lisa Best

Using MusicXML to Evaluate Accuracy of OMR systems Mariusz Szwoch Aestheticization of flowcharts *Wioleta Szwoch*

Towards Diagrammatic Patterns *Merete Skjelten Tveit*

Visualizing Meaning: Literacy Materials for Dyslexic Children *Myra Thiessen*

Diagrammatic Interrelationships Between Global and Local Algebraic Visual Objects: Communicating the Visual Abstraction *Julie Tolmie*

School Curriculum Development to Promote Student Spontaneous Diagram Use in Problem Solving

Yuri Uesaka and Emmanuel Manalo