



Studying Professional Software Design



University of California, Irvine
February 8th - 10th, 2010

Monday, February 8th

07:30-08:30	Registration
08:30-09:00	Welcome and introductions
09:00-10:30	<u>Session 1: Software design strategies (presentations)</u> <i>Software Design Case Studies</i> , Michael Jackson (The Open University) <i>Human Reasoning and Software Design: An Analysis</i> , Antony Tang and Aldeida Aleti (Swinburne University of Technology) <i>Identifying Design Activities via Discourse and Content Analysis</i> , Bonita Sharif, Natalia Dragan, Andrew Sutton, Michael Collard, and Jonathan Maletic (Kent State University) <i>Understanding the Nature of Software Design Processes</i> , Kumiyo Nakakoji (University of Tokyo and SRA Key Technology Laboratory Inc.), Yasuhiro Yamamoto (University of Tokyo), and Nobuto Matsubara (SRA Key Technology Laboratory Inc.) [5 minute break] <i>Design Requirements, Epistemic Uncertainty and Solution Development Strategies in Software Design</i> , Linden Ball (Lancaster University), Balder Onarheim, and Bo Christensen (Copenhagen Business School) <i>The Software Design Process as a Series of Rotating Subject Pairs</i> , Alex Baker and André van der Hoek (University of California, Irvine) <i>Reflections on Representations: a Cognitive Dimensions Analysis of Whiteboard Design Notations</i> , Marian Petre (The Open University) <i>Talk and Diagrams in Software Design: a Case Study</i> , Mark Gross (Carnegie Mellon University)
10:30-11:00	Break
11:00-12:15	Session 2: What did you not see? (break-outs)
12:15-13:45	Lunch - University Club (Sandwiches & salad)
13:45-15:15	<u>Session 3: Conceptualizing design (presentations)</u> <i>Accessing Decision-Making in Software Design</i> , Henri Christiaans (TU Delft) and Rita Assoreira Almendra (TU Lisbon) <i>Using a Generic Method to Study Software Design Cognition</i> , Jeff Wei Tak Kan, John Gero (George Mason University), and Somwrita Sarkar (University of Technology, Sydney) <i>Multiple Perspectives about Software Design</i> , Gerhard Fischer (University of Colorado at Boulder) <i>Investigating Design Spaces: An Analysis of Software Design at Work</i> , Werner Beuschel (Brandenburg University of Applied Sciences) [5 minute break] <i>Designing Programs as Representations</i> , Clayton Lewis (University of Colorado at Boulder) <i>How Design Style Relates to the Representational Power of Design Outcomes</i> , Cláudia Werner, Rafael Cepeda, Marcelo Schots (Universidade Federal do Rio de Janeiro), and Leonardo Murta (Universidade Federal Fluminense) <i>Expertise in Software Design: Novice and Expert Models</i> , Vesna Popovic and Ben Kraal (Queensland University of Technology) <i>Mapping Design Thinking: Studying Professional Software Design with Design Thinking Culture Metrics</i> , Micah Lande, Neeraj Sonalkar, Malte Jung, and Christopher Han (Stanford University)
15:15-15:45	Break
15:45-17:00	Session 4: What should the communities present learn from each other? (break-outs)
17:00-17:30	<u>Today's parting thoughts (discussants)</u> Fred Brooks (University of North Carolina at Chapel Hill) Nigel Cross (The Open University) Mary Shaw (Carnegie Mellon University)
18:30-...	Workshop dinner - Javier's (Mexican, we will be carpooling)

Tuesday, February 9th

08:30-10:00	Session 5: Elements of Software Design (presentations) <i>Studying Professional Software Designers and their Use of Abstraction, Joanne Atlee and Michael Godfrey (University of Waterloo)</i> <i>Designing Assumptions, Ben Matthews (University of Southern Denmark)</i> <i>Design as a Set of Design Decisions, Remco de Boer (ArchixL) and Hans van Vliet (VU University Amsterdam)</i> <i>Design Discourse and Rationale, Janet Burge (Miami University)</i> [5 minute break] <i>The Cobbler's Children – Why Do Software Design Environments Not Support Software Design Practices?, David Budgen (Durham University)</i> <i>Are Flexible Modeling Tools Applicable to Software Design Discussions?, Harold Ossher (IBM T.J. Watson Research Center), Bonnie John (IBM T.J. Watson Research Center and Carnegie Mellon University), Michael Desmond, and Rachel Bellamy (IBM T.J. Watson Research Center)</i> <i>A Design Space for Traffic Signal Simulation, Mary Shaw (Carnegie Mellon University)</i>
10:00-10:30	Break
10:30-11:45	Session 6: Implications for current tools and practice (break-outs)
11:45-13:45	Lunch - Chakra (Indian, 15-20 minute walk)
13:45-15:15	Session 7: Interaction (presentations) <i>A Network Theory Approach to Studying Professional Software Designers' Conversations, Sian Joel (Edinburgh Napier University) and Paul Rodgers (Northumbria University)</i> <i>"There's Actually a Car – Perspective Taking and Evaluation in Software-Intensive Systems Design Conversations, Jeffrey Nickerson and Lixiu Yu (Stevens Institute of Technology)</i> <i>"So the Big Rocks We're Putting in the Jar...": Using Situated Reasoning to Coordinate Design Activity, Rachael Luck (University of Reading) and Nozomi Ikeya (Palo Alto Research Center)</i> <i>Contributing to the Elaboration of a Design Artefact According to One's Interactional Position: Visual and Audible Evidence, Willemien Visser (CNRS-Telecom Paris Tech)</i> [5 minute break] <i>A Study of Fluid Design Collaboration, Janet McDonnell (University of the Arts London)</i> <i>"Just Try to Do It at the Whiteboard": Researcher-Participant Interaction and Issues of Generalisation, John Rooksby (University of St. Andrews)</i> <i>Linguistic Inquiry into the Emotional Content of a Designer's Discourse, Irina Solovyova (University of Texas at San Antonio)</i> <i>Roles in Collaborative Software Design: An Analysis of Symmetry in Interaction, Françoise Détienne (CNRS-Telecom Paris Tech)</i>
15:15-15:45	Break
15:45-17:00	Session 8: Education (break-outs)
17:00-17:30	Today's parting thoughts (discussants) <i>Michael Jackson (The Open University)</i> <i>Clayton Lewis (University of Colorado at Boulder)</i> <i>Barbara Tversky (Stanford University)</i>
	[No planned dinner]

Wednesday, February 10th

08:30-10:00	Session 9: Panel (discussants) <i>Fred Brooks (University of North Carolina at Chapel Hill)</i> <i>Nigel Cross (The Open University)</i> <i>Michael Jackson (The Open University)</i> <i>Clayton Lewis (University of Colorado at Boulder)</i> <i>Mary Shaw (Carnegie Mellon University)</i> <i>Barbara Tversky (Stanford University)</i>
10:00-10:30	Break
10:30-12:00	Session 10: Research agenda (break-outs)
12:00-12:30	Close
12:30	Adjourn (Box lunches will be provided)

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