ADVANCE PROGRAM

California Software Symposium (CSS '98)

Featured Topic: Software Engineering in a Fully Connected World

Friday, October 23, 1998 University of California, Irvine UCI Student Center, Monarch Bay A & B

CSS '98 Co-Chairs:

Lewis Johnson USC/ISI/CSE

David Redmiles UCI/IRUS

The 1998 California Software Symposium (CSS '98) is the eighth in a series of annual meetings on software engineering co-sponsored by UCI's Irvine Research Unit in Software (IRUS) and USC's Center for Software Engineering (CSE). The purpose of these symposia is to bring together researchers and practitioners to share ideas and experiences. Emphasis is on early dissemination of new ideas and empirical evaluation and on experience with software techniques on actual projects. We feel confident you will find that CSS '98 continues the tradition of high-quality, peer-reviewed presentations and panel discussions.

This year's featured topic, *Software Engineering in a Fully Connected World*, is complemented by presentations on such topical items as social and organizational implications of software, Web and Internet related standards and technologies, Computer Supported Cooperative Work (CSCW), workflow and process, metrics including the COCOMO II project, Off-the-Shelf (OTS) technology, software comprehension, and legal implications. These topics are presented in a variety of formats: paper presentations, panels, a keynote address, and new this year, a mini-tutorial.

For more information:

Debra A. Brodbeck, UCI/IRUS

brodbeck@ics.uci.edu, (949) 824-2260

Keynote Address:

Networking, Knotworking and Net-Knitting: Maintaining Connection in the New Economy

Is the "fully connected" world all attributable to technology? Obviously there is "social work" that is necessary for building real human networks. I have been studying how people work across organizational boundaries, investigating the work of consultants, contractors, cross-company business partners, experts such as attorneys and reference librarians, high level managers, brokers such as technology transfer advocates, and workers in customer-vendor relationships. I contrast this kind of cross-linking work to "teamwork" which has been the focus of most CSCW research. My research shows that a significant amount of effort goes into constructing, construing and maintaining social networks and varying social "presences" in cross-linked work. Technologies such as the telephone and the Internet are crucial to this work, though face to face communication persists as an important tool. "Knotworking" and "net-knitting" are forms of working within a network. I will discuss organizational and technological implications of these activities that characterize work in today's econ-

Biography: Bonnie A. Nardi is an anthropologist in AT&T Labs-Research in Menlo Park, California. She has lived and studied in Papua New Guinea and Western Samoa, and has investigated the technological habits of spreadsheet users, brain surgeons, reference librarians and American teenagers, among others. She is currently studying human networking in the new economy. Bonnie Nardi is the author of A Small Matter of Programming: Perspectives on End User Computing, MIT Press, 1993, and the editor of Context and Consciousness: Activity Theory and Human-Computer Interaction, MIT Press, 1996. Her new book, co-authored with Vicki O'Day, Information Ecologies: Local Habitations for People and Technology, will be published by MIT Press in November, 1998.

The CSS '98 Advance Program and Registration Form are available at www.ics.uci.edu/IRUS/css/css.html

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CSS '98 REGISTRATION FORM

Please send/fax your registration form and payment to: Aileen Broccardo

Information and Computer Science University of California, Irvine

University of California, Irvine Phone: 949-824-1357 ICS2 Room 106 Fax: 949-824-1715 Irvine, CA 92697-3425 Email: aileen@ics.uci.edu

Registration:

Early registration must be received by Friday, October 9, 1998.

There will be on-site LATE registration beginning 8:00 AM on October 23, 1998, space permitting. The symposium registration fee includes proceeding, notebook, continental breakfast, and a.m./p.m. breaks. Lunch is not included; a variety of on-site restaurants are recommended.

Upon registration, a confirmation package will be sent including a receipt, campus map, parking information, hotel, and lunch recommendations.

Cancellation/Refund Policy:

gistration Fees:	Early Registration (by 10/09)	<u>Late Registration</u> (after 10/09)
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CSS '98 Advance Program Friday, October 23, 1998

7:45 - 8:45 On-Site Registration Welcome: Lewis Johnson, USC/ISI/CSE and David Redmiles, UCI/IRUS 8:45 - 9:00 9:00 - 10:30 Computer Supported Cooperative Work (CSCW) & Process Patterns in CSCW Modeling Marco Paludo, Robert Burnett, and Edgard Jamhour, Pontificia Catholic University of Parana, Brazil Endeavors and Component Reuse in Web-Driven Process Workflow Dong Le and Arthur S. Hitomi, University of California, Irvine Using a Corporate Intranet for Technology Transfer Rick Hefner, TRW Outsourcing Quality: A Software Process Improvement Model for a Small Software Organization Sundari Voruganti, Amr Kamel, Jim Hoover, and Paul Sorenson, University of Alberta 10:30 - 10:50 Break 10:50 - 11:50 Panel: When Ontogeny Inverts Phylogeny: How Much Regulation in a Fully-Connected World? Moderator/Panelist: Richard Allan Horning, Tomlinson Zisko Morosoli & Maser LLP Panelists: Michael M. Krieger, Bronson, Bronson & McKinnon LLP and Clark Savage Turner, UC Irvine The Internet reversed the evolutionary relationship between technology and law which was previously typical of "fully connected", internationally deployed systems. Unprecedented regulatory gaps and conflicts have arisen, for example, in cryptographic and security policy, domain name usage, internet telephony, and advertising and IP norms. The panel addresses whether lessons can be "reverse engineered" from the telecom/airline experiences and new paradigms discovered to deal with these problems and their implications for software development and deployment. 11:50 - 12:00 Announcements: Richard N. Taylor UCI/IRUS, Barry Boehm USC/CSE and Debra Brodbeck UCI/IRUS 12:00 - 1:15 Lunch 1:15 - 2:45 **Design & Architecture** Employing Off-the-Shelf Connector Technologies in C2-Style Architectures Nenad Medvidovic, Eric M. Dashofy, and Richard N. Taylor, University of California, Irvine Automatic Generation of Visual Presentations for Software Understanding Rogelio Adobbati, W. Lewis Johnson, and Stacy Marsella, University of Southern California Managing the Transition from Software Technology Development to Product Development Peter Hantos and Charlie Sie, Xerox Corporation COCOTS Models - COCOMO-II Constructive COTS Extensions Christopher M. Abts and A. Winsor Brown, University of Southern California 2:45 - 3:00 Break 3:00 - 4:00 Mini-tutorial: XML, WebDAV, and WISEN Rohit Khare and E. James Whitehead, University of California, Irvine 4:00 - 5:00 Keynote Address: Networking, Knotworking and Net-Knitting: Maintaining Connection in the New Economy Bonnie Nardi, AT&T Labs-West, www.best.com/~nardi/default.html

Closing Comments: Lewis Johnson, USC/ISI/CSE and David Redmiles, UCI/IRUS

UCI Irvine Research Unit in Software (IRUS) www.ics.uci.edu/IRUS

UCI's Irvine Research Unit in Software was established to promote interaction between research and industry on current software issues, to facilitate cooperative problem-solving groups, and to provide information sharing in the field of software engineering. IRUS sponsors this symposium as well as many other activities, including focused technology symposia and workshops, monthly Southern California SPIN meetings, monthly San Francisco Bay Area Roundtables (BART), and other special events.

The Irvine Research Unit in Software wishes to thank its Corporate Sponsors:

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The USC Center for Software Engineering similarly stimulates collaborative research and technology transition with industry and government. It integrates resulting technology advances into USC's MSCS degree program in software engineering. CSE also sponsors an Annual Research Review, annual Executive Workshops and semi-annual Technical Focused Workshops on critical technologies, monthly Los Angeles SPIN meetings, and the annual COCOMO/Software Cost Estimation Forum (with the SEI).

The Center for Software Engineering wishes to thank its Affiliates:

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