

Richard Newton Taylor

CONTACT INFORMATION	School of Information and Computer Sciences University of California, Irvine Irvine, CA 92697-3440	<i>E-mail:</i> taylor@uci.edu www.ics.uci.edu/~taylor
CITIZENSHIP	USA	
RESEARCH INTERESTS	Software engineering, software architecture, Web technologies, decentralized systems, design, system engineering, development environments	
EDUCATION	University of Colorado , Boulder, CO USA Ph.D., Computer Science, December 1980 Static Analysis of the Synchronization Structure of Concurrent Programs Advisor: Professor Leon J. Osterweil M.S., Computer Science, May 1976 University of Colorado , Denver, CO USA B.S., Applied Mathematics, May 1974 <i>With Special Honors</i> Minor in Distributed Engineering	
AWARDS & HONORS	1985 Presidential Young Investigator Award 1998 ACM Fellow 2004 ICSE Distinguished Paper Award 2005 ACM SIGSOFT Distinguished Service Award 2008 ACM SIGSOFT/IEEE TCSE Most Influential Paper from ICSE 1998 Award 2009 Dean's Award for Graduate Student Mentoring 2009 ACM SIGSOFT Outstanding Research Award 2010 UC Irvine Chancellor's Professor 2012 Dean's Award for Excellence in Research 2017 Distinguished Engineering Alumni Award, University of Colorado Boulder 2017 ACM SIGSOFT Impact Paper Award (with Roy Fielding)	

PROFESSIONAL
EXPERIENCE

7/17-present Chancellor's Professor Emeritus, School of Information and Computer Sciences, University of California, Irvine (UCI)

7/13-6/17 Chancellor's Professor Emeritus (Recalled status), School of Information and Computer Sciences, University of California, Irvine (UCI)

7/99-6/17 Director, Institute for Software Research, UCI.

1/03 -6/13 Professor (VIII), School of Information and Computer Sciences. University of California, Irvine (UCI)

1/03-6/04 Chair, Department of Informatics, School of Information and Computer Sciences, UCI

7/91-12/02 Professor, Department of Information and Computer Science, UCI.

7/93-6/99 Director, Irvine Research Unit in Software, UCI (Acting, 7/93-6/94)

3/95-7/95 Professeur invité, Institut National de Recherche en Informatique et en Automatique (INRIA), Sophia-Antipolis, France.

7/85-6/91 Associate Professor, Department of Information and Computer Science, UCI.

9/87-8/88 Visiting Researcher (Chef du Project), INRIA Sophia-Antipolis, France.

7/82-6/85 Assistant Professor, Department of Information and Computer Science, UCI.

1/81-6/83 Assistant Professor, Department of Computer Science, University of Victoria (On Leave 1982-1983).

9/79-12/80 Graduate Student/Research Assistant, University of Colorado at Boulder.

9/77-9/79 Senior Software Engineer, Boeing Computer Services (BCS), Seattle, Washington.

9/76-5/77 Graduate Student/Teaching Assistant, Department of Computer Science, University of British Columbia.

9/74-9/76 Analyst/Programmer, U.S. Bureau of Reclamation, Denver, Colorado.

CONSULTING AND	08/18–11/18	Erise IP [Technical Expert]
ADVISORY BOARDS	05/18–present	Kirkland & Ellis LLP (New York) [Technical Expert]
	04/17	Klarquist Sparkman, LLP [Technical Expert]
	06/16–12/18	Klarquist Sparkman, LLP [Technical Expert, Deponent]
	04/15–04/16	Kirkland & Ellis LLP (Chicago) [Technical Expert]
	03/15–07/15	Klarquist Sparkman, LLP [Technical Expert]
	05/14–present	Morrison & Foerster [Technical Expert, Deponent]
	03/14–05/15	Weil, Gotshal & Manges LLP [Technical Expert]
	03/14	Klarquist Sparkman, LLP [Technical Expert]
	02/14–08/16	Jackson Walker LLP [Technical Expert, Deponent]
	10/13	DLA Piper LLP [Technical Expert]
	07/13–11/13	Klarquist Sparkman, LLP [Technical Expert]
	05/13–03/14	Arnold & Porter LLP [Technical Expert]
	12/12–02/14	WilmerHale [Technical Expert, Deponent]
	07/12	Klarquist Sparkman, LLP [Technical Expert]
	05/12–02/13	Kirkland & Ellis, LLP (Washington) [Technical Expert]
	03/12	Samsung Advanced Technology Training Institute and So-gang University [Courses in Software Architecture]
	01/12–07/12	Kirkland & Ellis, LLP (Chicago) [Technical Expert, Deponent]
	04/11–06/11	Hogan Lovells (London) [Technical Expert]
	02/11–05/12	Kramer Levin (originally King & Spalding) [Technical Expert, Deponent]
	09/10–05/18	The Aerospace Corporation. Member of the Technical Staff.
	03/10–05/11	Kirkland & Ellis, LLP (Chicago) [Technical Expert, Deponent (twice), Testifying Witness]
	12/09	Infosys, Mysore, India [Course in Software Architecture]
	07/09–11/11	Kirkland & Ellis, LLP (New York) [Technical Expert, Deponent]
	05/09–04/10	Akin, Gump, Strauss, Hauer & Feld, LLP [Technical Expert, Deponent]
	01/09	Barcelo & Harrison, LLP [Technical Expert]
	10/06–05/08	Kirkland & Ellis, LLP (New York) [Technical Expert, Deponent (twice), Testifying Witness]
	05/07	Susman Godfrey, LLP [Technical Expert]
	08/06–03/07	Stadheim & Gear, Ltd. [Technical Expert]
	04/06–09/06	Klarquist Sparkman, LLP [Technical Expert]
	06/04–08/05	Klarquist Sparkman, LLP [Technical Expert, Deponent]
	04/03–06/05;	Morrison & Foerster, LLP [Technical Expert, Deponent
	09/06	(twice), Testifying Witness]
	09/00–09/01	KnowNow Technical Advisory Board
	09/01–10/01	NASA Jet Propulsion Laboratory
	03/01–06/01	Quinn, Emanuel, Urquhart, Oliver & Hedges LLP [Technical Expert]
	07/00–09/01	Endeavors Technology, Inc.
	04/98–12/98	Northrop-Grumman Corporation
	11/97–04/98	U.S. Army TACOM, Michigan.
	02/95–06/95	Aesthetic Solutions, California.
	10/91–09/94	IBM/Loral Federal Systems, Owego, New York.
	09/91–09/92	TRW, Redondo Beach, California.

CONSULTING AND ADVISORY BOARDS (CONT.)	11/89–06/90 08/88–02/89 08/88 08/88 10/87; 04/88 03/83–09/88 07/84 10/83 07/83 09/79–01/82	Nimble Computer Corporation, Encino, California. Telesoft, San Diego, California. TRW, Redondo Beach, California. Institute for Defense Analyses, Arlington, Virginia. GSI—TECSI Industrie, Paris, France. The Aerospace Corporation, El Segundo, California. ITT Advanced Technology Center, Stratford, Connecticut. Research Triangle Institute, North Carolina. Joint System Development Corporation, Tokyo, Japan. Boeing Computer Services Company, Seattle, Washington.
CONFERENCE CHAIRMANSHIPS & ORGANIZATION	Organizing Committee Program Chair Program Chair Program Co-Chair Program Co-Chair Program Co-Chair General Chair General Chair General Chair	International Workshop on Environments (September 17–20, 1989), Chinon, France. Sponsored by Ada-Europe. SIGSOFT '90: Fourth ACM SIGSOFT Symposium on Software Development Environments (December, 1990, Irvine). 1992 DARPA Software Technology Conference (April 28–30, 1992, Los Angeles, CA). Sponsored by the Defense Advanced Research Projects Agency. Irvine Software Symposium, 1993. (April 30, 1993). Workshop on User Interfaces and Software Engineering. Held in conjunction with the 16th International Conference on Software Engineering (May 1994). 1997 International Conference on Software Engineering (May 1997). 1999 International Conference on Work Activities Coordination and Collaboration. Sponsored by ACM SIGCHI, SIGGROUP, SIGMOD, and SIGSOFT (February 1999). 2004 ACM SIGSOFT International Symposium on the Foundations of Software Engineering (November 2004). 2011 International Conference on Software Engineering (ICSE '11)

OFFICES HELD	Chair	ACM SIGSOFT Outstanding Research Award Committee. 2016.
	Member	ACM SIGSOFT Distinguished Service Award Committee. Fall 2014.
	Member	ACM SIGSOFT Distinguished Research Award Committee. Spring 2010.
	Steering Committee	International Conference on Software Engineering, 1989–2005; 2008–2014.
	Steering Committee	Software Engineering for Adaptive and Self-Managing Systems, 2007–2012
	Advisory Committee	Ground Systems Architecture Workshop, 2005–2017.
	Chairman	Steering Committee for the International Conference on Software Engineering, 1998–2000.
	Chairman	SIGSOFT Nominations Committee, 1997.
	Chairman	SIGSOFT Distinguished Research Award Committee, 1997
	Chairman	SIGSOFT Distinguished Service Award Committee, 1995–1997.
	Member	ACM Software System Award Committee, 1990–1995
	Chair	ACM Software System Award Committee, 1993–1994.
Chairman	ACM Special Interest Group on Software Engineering (SIGSOFT), 1989–93.	
Vice-Chairman	ACM SIGSOFT, 1987–89.	
Executive Committee	IEEE Computer Society Technical Committee on Software Engineering, 1985–1986.	

EDITORIAL BOARDS & PANEL SERVICE	Panelist	Science Foundation Ireland. Limerick. May 2017
	Member	Search committee for EIC of IEEE Transactions on Software Engineering. Spring 2009.
	Editorial Board	IEEE Transactions on Software Engineering. 1/2006–12/2009; 12/1991–4/1995; Guest Editor, 1998.
	Editorial Board	Journal of Software Engineering in Robotics. 2009-present.
	Panelist	Information, Communications & Emergent Technologies, Science Foundation Ireland. Dublin. October 2008
	Panelist	The Aerospace Corporation, IR&D proposal review committee. August 2008.
	Panelist	ESEC/FSE 2009 Doctoral Symposium. August 25, 2009, in Amsterdam, The Netherlands.
	Panel Service	University of Alberta Computer Science Department External Review. April 2003.
	Member	NSF Directorate for Computer and Information Science and Engineering Advisory Committee (CISE AC). 1/1/00 – 4/30/03.
	Member	University of Colorado at Boulder Computer Science Department Advisory Committee. 1998; 2000-2003.
	Editorial Board	Journal of Software Testing, Verification, and Reliability, published by John Wiley and Sons Ltd. 1990 – 2000
	Panelist	COSEPUP (Committee on Science, Engineering, and Public Policy, a joint unit of the National Academies), Capitalizing on Research Leadership in Software. March 1996

CONFERENCE
PROGRAM
COMMITTEES

- Second International Symposium on Ada Applications and Environments (April 8–10, 1986, Miami). Sponsored by IEEE.

- Sixth International Conference on Distributed Computing Systems (May 19–23, 1986, Cambridge, Massachusetts)
- Workshop on Software Testing (July 15–17, 1986, Banff, Alberta, Canada)
- 1986 International Conference on Computer Languages (October 27–30, 1986, Miami)
- Second Symposium on Practical Software Development Environments (December 9–11, 1986, Palo Alto). Sponsored by ACM SIGSOFT and SIGPLAN.
- Ninth International Conference on Software Engineering (March 31–April 2, 1987, Monterey). Sponsored by ACM and IEEE.
- Tenth International Conference on Software Engineering (April 11–April 15, 1988, Raffles City, Singapore). Sponsored by ACM and IEEE.
- Second Workshop on Software Testing, Verification, and Analysis (July 19–21, 1988, Banff). Sponsored by ACM SIGSOFT and IEEE.
- Third ACM SIGSOFT/SIGPLAN Symposium on Software Development Environments (November 28–30, 1988, Boston). Sponsored by ACM SIGSOFT and SIGPLAN.
- Third Workshop on Software Testing, Analysis, and Verification (December 13–15, 1989, Key West). Sponsored by ACM SIGSOFT.
- Twelfth International Conference on Software Engineering (March 26–30, 1990, in Nice, France). Sponsored by ACM and IEEE.
- Workshop on Parallel and Distributed Debugging (March 1991). Sponsored by ACM SIGPLAN and ACM SIGOPS.
- Third European Software Engineering Conference– ESEC ‘91 (October 21–24, 1991, Milano).
- Workshop Committee, Second Symposium on Environments and Tools for Ada (SETA2) (January 29–31, 1992). Sponsored by ACM SIGAda.
- Advisory Committee, Second Conference on Computers, Freedom, and Privacy (March 18–20, 1992).
- First International Workshop on Hardware-Software Codesign (September 9–11, 1992).
- ACM SIGSOFT ‘92: Fifth Symp. on Software Development Environments (Dec. 9–11, 1992).
- 1994 International Conference on Software Engineering (May 1994, Sorrento, Italy). Sponsored by ACM and IEEE.
- ACM SIGSOFT ‘94: Foundations of Software Engineering (December 1994, New Orleans).
- 1996 International Conference on Software Engineering (April 1996, Berlin). Sponsored by ACM and IEEE.
- ACM SIGSOFT ‘98: Foundations of Software Engineering (November 1998, Orlando).
- 3rd International Workshop on Software Architectures (ISAW-3) (November 1998, Orlando).
- 1999 International Conference on Software Engineering (Los Angeles). Sponsored by ACM and IEEE.
- Coordination ‘99 (April 1999, Amsterdam).
- NSF Software Engineering Research Strategies Workshop, Los Angeles, August 1999.
- 2000 International Conference on Software Engineering (June, 2000, Limerick, Ireland). Sponsored by ACM and IEEE.
- 4th International Workshop on Software Architectures (ISAW-4) (June 2000, Limerick).
- ACM SIGSOFT ‘00: Foundations of Software Engineering (November 2000, San Diego).
- XSE2001. XML Technologies and Software Engineering (May 2001, Toronto,

- Canada)
- WICSA 2001. The Working IEEE/IFIP Conference on Software Architecture (August 28-31, 2001 Amsterdam, The Netherlands)
 - CDSA 2001. Working Conference on Complex and Dynamic Systems Architecture (December 2001, Brisbane Australia)
 - 2002 International Conference on Software Engineering (May 2002, Orlando). Sponsored by ACM and IEEE.
 - Mobile Teams 2002. International Workshop on Mobile Teamwork 2002, July 2-3, 2002 in Vienna, Austria. Co-located with the 22nd International Conference on Distributed Computing Systems (ICDCS 2002).
 - ICSE 2002 Workshop on Architecting Dependable Systems (May 2002, Orlando).
 - COMPSAC 2002 Workshop on Cooperative Supports for Distributed Software Engineering Processes. (August 2002, Oxford, U.K.)
 - 2nd Workshop on Cooperative Supports for Distributed Software Engineering Processes, March 26-28, 2003
 - Formal Aspects of Software Engineering (FASE) Warsaw, Poland, from 5 to 13 April 2003.
 - 2003 Symposium on the Foundations of Software Engineering/European Software Engineering Conference (ESEC/FSE). (September 2003, Helsinki).
 - 2004 International Conference on Software Engineering (April 2004, Edinburgh).
 - WICSA 2005. The Working IEEE/IFIP Conference on Software Architecture. (November, 2005, Pittsburgh).
 - ICSE 2006: SE Achievements and Challenges Track (May, 2006, Shanghai).
 - ICSE 2006: Doctoral Symposium (May, 2006, Shanghai)
 - ICSE 2006 Workshop on Software Engineering for Adaptive and Self-Managing Systems (SEAMS) (May, 2006, Shanghai)
 - Design Research Society, 2006
 - 2007 International Conference on Software Engineering (May, 2007, Minneapolis)
 - WICSA 2007. The Working IEEE/IFIP Conference on Software Architecture. (January, 2007, Mumbai).
 - SwSTE'07: International IEEE Conferences on Software - Science, Technology and Engineering (October 30 and 31, 2007, in Herzliya, Israel.)
 - WICSA 2008. The Working IEEE/IFIP Conference on Software Architecture. (February, 2008, Vancouver).
 - Software Engineering for Adaptive and Self-Managing Systems (SEAMS 2008)
 - 3rd International Conference on Design Science Research in Information Systems and Technology (DESRIST 2008), Atlanta, GA, USA, May 7-9, 2008.
 - ARTIST International Workshop on Model Based Architecting and Construction of Embedded Systems (ACES-MB 2008) Toulouse, September 2008.
 - Software Architecture for Pervasive Systems (SAPS), held with the 34th Euromicro Conference in Parma, Italy, September 3-5, 2008.
 - 2nd European Conference on Software Architecture (ECSA 2008) Cyprus, 29 September - 1 October, 2008.
 - Software Engineering for Adaptive and Self-Managing Systems (SEAMS) (May, 2009, Vancouver)
 - ESEC/FSE Doctoral Symposium (August, 2009, Amsterdam)
 - 8th Working International Conference on Software Architecture (WICSA) and the 3rd European Conference on Software Architecture (ECSA) (Cambridge, September 2009)
 - Third IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO) 2009.
 - Model Based Architecting and Construction of Embedded Systems (ACES-MB) at MoDELS'09. Denver, October 2009.
 - First International Workshop on RESTful Design (WS-REST), April 26, 2010,

- Raleigh, NC.
- International IEEE Conference on Software - Science, Technology and Engineering (SwSTE'10) June 15-16, 2010, Herzliya, Israel.
 - Dependable and Adaptive Distributed Systems track (DADS) at the Annual ACM Symposium on Applied Computing (SAC 2012).
 - First International Workshop on the Twin Peaks of Requirements and Architecture, 2012.
 - Third International Workshop on RESTful Design (WS-REST), 2012.
 - 10th Working IEEE/IFIP Conference on Software Architecture (WICSA) and the 6th European Conference on Software Architecture (ECSA), (WICSA/ECSA 2012) August 2012, Helsinki.
 - Dependable and Adaptive Distributed Systems track (DADS) at the Annual ACM Symposium on Applied Computing (SAC 2013).
 - First International Workshop on Software Engineering for Systems-of-Systems (SESoS 2013)
 - TwinPeaks 2013 (Second International Workshop on the Twin Peaks of Architecture and Requirements).
 - Software Engineering for Adaptive and Self-Managing Systems (SEAMS 2014)
 - Visions of 2025 and Beyond (V2025) Track at ICSE 2016
 - 4th International Workshop on Software Engineering for Systems-of-Systems (SESoS 2016)
 - Technical Briefings (TB) Committee for the 2017 International Conference on Software Engineering (ICSE).
 - 12th Workshop on Distributed Software Development, Software Ecosystems and Systems-of-Systems (WDES 2018).

MEMBERSHIPS Association for Computing Machinery (ACM) (since 1975)
IEEE Computer Society (since 1979)

BOOKS

- B-1** Richard N. Taylor, Nenad Medvidovic, and Eric M. Dashofy. *Software Architecture: Foundations, Theory, and Practice*. John Wiley and Sons. ISBN-10: 0470167742; ISBN-13: 978-0470167748. 712 pages. ©2010

EDITED BOOKS

- EB-1** Sungdeok Cha, Richard N. Taylor, and Kyochul Kang (Editors). *Handbook of Software Engineering*. Springer International Publishing AG, 2019. 524 pages.

BOOK CHAPTERS AND ARTICLES

- BC-1** Osterweil, Leon J., L.D. Fosdick, and R.N. Taylor. Error and anomaly diagnosis through dataflow analysis. In *Program Testing*, ed. Chandrasekaran and Radicchi, North Holland, pp. 35-63 (1981).
- BC-2** Taylor, R.N. Analysis of concurrent software by cooperative application of static and dynamic techniques. In *Software Validation*, ed. Hans-Ludwig Hausen, Elsevier Science Publishers B.V. (North Holland), pp. 127-137 (1984). A preliminary version of this paper was issued as Technical Report 196, Dept. of Computer Science, Univ. of Ca., Irvine. (March 1983).
- BC-3** Taylor, R.N. User interfaces and software engineering environments. In *Proceedings of the Workshop on Software Engineering and Human Computer Interaction: Joint Research Issues*, published by Springer-Verlag as *Lecture Notes in Computer Science*, Vol. 896, pp. 113–126 (1995).
- BC-4** Coutaz, J. and R.N. Taylor. Introduction to the workshop on software engineering and human-computer interaction: Joint research issues. In *Proceedings of the Workshop on Software Engineering and Human Computer Interaction: Joint Research Issues*, published by Springer-Verlag as *Lecture Notes in Computer Science*, Vol. 896, pp. 1–3 (1995).
- BC-5** Richard N. Taylor and André van der Hoek. “Software Design and Architecture: The once and future focus of software engineering.” In *Future of Software Engineering*. Edited by Lionel C. Briand and Alexander L. Wolf. pp. 226-243. IEEE Computer Society (2007).
- BC-6** Oreizy, P., Medvidovic, N., and Taylor, R. N. Runtime software adaptation: framework, approaches, and styles.(Most Influential Paper of ICSE 1998 Invited Paper) In *Companion of the 30th international Conference on Software Engineering (Leipzig, Germany, May 10 - 18, 2008)*. *ICSE Companion '08*. ACM, New York, NY, 899-910. DOI= <http://doi.acm.org/10.1145/1370175.1370181>
- BC-7** John Georgas and Richard N. Taylor. Policy-Based Architectural Adaptation Management: Robotics Domain Case Studies. In *Self-Adaptive Systems*, edited by Editors: Betty H.C. Cheng, Rogerio de Lemos, Holger Giese, Paola Inverardi, Jeff Magee. *Lecture Notes in Computer Science 5525*, pp. 89-108. Springer-Verlag Heidelberg 2009.
- BC-8** Richard N. Taylor. Software Architecture, (In)consistency, and Integration. In *Engineering of Software: The Continuing Contributions of Leon J. Osterweil*, ed. Peri L. Tarr and Alexander L. Wolf. Springer. 2011.

- BC-9** Hazel U. Asuncion and Richard N. Taylor. Automated Techniques for Capturing Custom Traceability Links across Heterogeneous Artifacts. In: *Software and Systems Traceability*, ed. Jane Cleland-Huang, Andrea Zisman, and Olly Gotel. pp. 129-146, Springer, 2012.
- BC-10** Michael M. Gorlick and Richard N. Taylor. Communication and Capability URLs in COAST-based Decentralized Services. In: C. Pautasso et al. (eds.), *REST: Advanced Research Topics and Practical Applications*, pp. 9-25, Springer, 2014. DOI 10.1007/978-1-4614-9299-3
- BC-11** Roy T. Fielding, Richard N. Taylor, Justin R. Erenkrantz, Michael M. Gorlick, Jim Whitehead, Rohit Khare, and Peyman Oreizy. 2017. Reflections on the REST architectural style and “Principled design of the modern web architecture” (Impact Paper Award). In *Proceedings of the 2017 11th Joint Meeting on Foundations of Software Engineering (ESEC/FSE 2017)*. ACM, New York, NY, USA, 4-14. DOI: <https://doi.org/10.1145/3106237.3121282>
- BC-12** Richard N. Taylor. Only the Architecture You Need. In “The Essence of Software Engineering,” ed. Volker Gruhn and Rudiger Striemer. Springer International Publishing, 2018, pp. 77-89. <https://doi.org/10.1007/978-3-319-73897-0>.
- BC-13** Richard N. Taylor. Software Architecture and Design. In “Handbook of Software Engineering,” ed. Sungdeok Cha, Richard N. Taylor, and Kyochul Kang. Springer International Publishing AG, 2019. pp. 93-122.

REFEREED
JOURNAL
ARTICLES

- J-1** Taylor, R.N. and L.J. Osterweil. Anomaly detection in concurrent software by static data flow analysis. *IEEE Transactions on Software Engineering, SE-6*, No. 3, pp. 265-278 (May 1980).
Reprinted in *Tutorial: Software Testing and Validation Techniques*, pp. 167–180, IEEE Computer Society Press (1981).
- J-2** Taylor, R.N. A general purpose algorithm for analyzing concurrent programs. *Communications of the ACM, 26*, 5, pp. 362-376 (1983).
Reprinted in *Concurrent Programming*, edited by Narain Gehani and Andrew McGettrick, Addison-Wesley (1988).
Reprinted in *Tutorial: Distributed Software Engineering*, edited by S.M. Schatz and Jia-Ping Wang, Computer Society Press of the IEEE (1989), pages 226–240.
- J-3** Taylor, R.N. Complexity of analyzing the synchronization structure of concurrent programs. *Acta Informatica, 19*, pp. 57-84 (1983).
- J-4** Taylor, R.N. An integrated verification and testing environment. *Software-Practice and Experience, 13*, pp. 697-713 (1983).
- J-5** Taylor, R.N. Debugging real-time software in a host-target environment. *Technique et Science Informatiques (Technology and Science of Informatics), 3*, 4, 281-288 (1984).
This paper previously appeared as a refereed contribution in the *Proceedings of the 2nd Software Engineering Conference, Nice, France*, pp. 451-463 (June 1984).
- J-6** Taylor, R.N. and T.A. Standish. Steps to an advanced Ada programming environment. *IEEE Transactions on Software Engineering, SE-11*, Number 3, 302-310 (March 1985).
This paper previously appeared as a refereed contribution in the *Proceedings of the*

- 7th International Conference on Software Engineering, Orlando, FL, pp. 116-125 (March 1984).
- J-7** Brindle, A., R. Taylor, and D. Martin. A debugger for Ada tasking. *IEEE Transactions on Software Engineering, SE-15*, Number 3, 293-304 (March 1989).
Reviewed in Computing Reviews, 31, 2, page 102 (February 1990).
- J-8** Young, M., Taylor, R.N., and Troup, D.B. Software environment architectures and user interface facilities. *IEEE Transactions on Software Engineering, SE-14*, Number 6, 697-708 (June 1988).
- J-9** Young, M. and R. Taylor. Combining static concurrency analysis with symbolic execution. *IEEE Transactions on Software Engineering, SE-14*, Number 10, 1499-1511 (October 1988).
An earlier version of this paper appeared as a refereed conference publication in Proceedings of the Workshop on Software Testing, Banff, Canada, pp. 170-178 (July 1986).
- J-10** Taylor, R., Cheryl D. Kelly, and David L. Levine. Structural testing of concurrent programs. *IEEE Transactions on Software Engineering, 18*, 3, pp. 206-215 (March, 1992). (Major revision of item RC-8 below).
Reviewed in Computing Reviews, 34, 9, pg. 489
- J-11** Young, M., D.L. Levine, and R.N. Taylor. Comments on “Temporal logic-based deadlock analysis for Ada”. Correspondence item, *IEEE Transactions on Software Engineering, 19*, 2, pp. 198-199 (February, 1993).
- J-12** Michal Young, Richard N. Taylor, David L. Levine, Kari Forester, and Debra Brodbeck. A concurrency analysis tool suite: rationale, design, and preliminary experience. *ACM Transactions of Software Engineering and Methodology, 4*, 1 (January 1995), pp. 65-106. (Major revision and expansion of RC-12 below.)
- J-13** Richard N. Taylor, Kari A. Nies, Gregory Alan Bolcer, Craig A. MacFarlane, Gregory F. Johnson, and Kenneth M. Anderson. Supporting separations of concerns and concurrency in the Chiron-1 user interface system. *ACM Transactions on Computer-Human Interaction, 2*, 2, pp. 105-144 (June 1995). (Major revision and expansion of RC-18 below.)
- J-14** Pezze, Mauro, Richard N. Taylor, and Michal Young. Graph models for reachability analysis of concurrent programs. *ACM Transactions on Software Engineering and Methodology, 4*, 2, pp. 171-213 (April 1995).
- J-15** Richard N. Taylor, Nenad Medvidovic, Kenneth M. Anderson, E. James Whitehead, Jr., Jason E. Robbins, Kari A. Nies, Peyman Oreizy, and Deborah L. Dubrow. A component and message-based architectural style for GUI software. *IEEE Transactions on Software Engineering, 22*, 6, pp. 390-406 (June, 1996.) (Major revision and expansion of RC-25 below. “Best paper of ICSE-17” (one of three))
- J-16** Nenad Medvidovic, Richard N. Taylor. Exploiting Architectural Style to Develop a Family of Applications. *IEE Proceedings Software Engineering, 144*. Number 5-6, pp. 237-248 (October/December 1997).
- J-17** Roy Fielding, E. James Whitehead, Jr., Kenneth Anderson, Peyman Oreizy, Gregory Bolcer, and Richard Taylor. Web-based Development of Complex Information Products. *Communications of the ACM, 41*, 8, pp. 84-92. (August 1998.)

- J-18** Kenneth M. Anderson, Richard N. Taylor, and E. James Whitehead, Jr. A Critique of the Open Hypermedia Protocol. *Journal of Digital Information*, 1, Issue 2, December 1997. Supported by the British Computer Society and the Oxford University Press. <http://jodi.ecs.soton.ac.uk/Articles/v01/i02/Anderson/i>.
- J-19** Peyman Oreizy and Richard N. Taylor. On the Role of Software Architectures in Runtime System Reconfiguration. *IEE Proceedings Software Engineering*. Vol. 145, No. 5, pp. 137-145 (October 1998). (Revision and expansion of RC-37 below.)
- J-20** Nenad Medvidovic and Richard N. Taylor. A Classification and Comparison Framework for Software Architecture Description Languages. *IEEE Transactions on Software Engineering*, 26, No. 1, pp. 70-93 (January 2000).
- J-21** Gregory Alan Bolcer and Richard N. Taylor. Advanced Workflow Management Technologies. *Software Process & Improvement and Practice*. 4, Number 3, pp. 125-171 (September 1998).
- J-22** Peyman Oreizy, Michael M. Gorlick, Richard N. Taylor, Dennis M. Heimbigner, Gregory F. Johnson, Nenad Medvidovic, Alex Quilici, David S. Rosenblum, Alexander L. Wolf. An Architecture-Based Approach to Self-Adaptive Software. *IEEE Intelligent Systems*, 14, 3, pp. 54-62 (May/June 1999).
- J-23** Peter Kammer, Gregory Alan Bolcer, Richard N. Taylor, Mark Bergman. Techniques for Supporting Dynamic and Adaptive Workflow. *Computer Supported Cooperative Work (CSCW)*, 9, pp. 269-292 (2000).
- J-24** Kenneth M. Anderson, Richard N. Taylor, E. James Whitehead, Jr. Chimera: Hypermedia for Heterogeneous Environments. *ACM Transactions on Office Information Systems*, 18, 3, pp. 211-245 (July, 2000).
- J-25** Roy Fielding and Richard N. Taylor. Principled design of the Modern Web Architecture. *ACM Transactions on Internet Technology*, 2, 2, pp. 115-150 (May 2002).
- J-26** Medvidovic, N., E. M. Dashofy, Richard N. Taylor. The Role of Middleware in Architecture-Based Software Development. *International Journal of Software Engineering and Knowledge Engineering*, 13, 4, pp. 367-393 (August 2003)
- J-27** Eric M. Dashofy, André van der Hoek, and Richard Taylor. A Comprehensive Approach for the Development of Modular Software Architecture Description Languages. *ACM Transactions on Software Engineering and Methodology (TOSEM)* 14, 2, pp. 199-245 (April 2005).
- J-28** Girish Suryanarayana, Justin Erenkrantz, and Richard Taylor. An Architectural Approach to Decentralized Trust Management. *IEEE Internet Computing*, 9, 6, pp. 16-23, (November/December, 2005). Special section on Security for P2P/Ad Hoc Networks.
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- NR-26** Peyman Oreizy , David S. Rosenblum, Richard N. Taylor, “On the Role of Connectors in Modeling and Implementing Software Architectures”, Technical Report UCI-ICS-98-04, Department of Information and Computer Science, University of California, Irvine, February 1998.
- NR-27** Distributed Workflow using HTTP: An Example using Software Pre-Requirements. Arthur S. Hitomi, Peter J. Kammer, Gregory Alan Bolcer, and Richard N. Taylor. Paper accompanying a formal research demo, Proceedings of the 1998 International Conference on Software Engineering, Kyoto, Volume II, pp. 40-44, April 1998.
- NR-28** Nenad Medvidovic and Richard Taylor. Separating Fact from Fiction in Software Architecture. Proceedings of the Third International Software Architecture Workshop (ISAW-3). Sponsored by ACM Sigsoft. 1-2 November, 1998, pp. 105-108.

- NR-29** Richard N. Taylor and Eric M. Dashofy. “Function Follows Form: Architecture and 21st Century Software Engineering,” Participant whitepaper for: Workshop of the Interagency Working Group for Information Technology Research and Development (ITRD) Software Design and Productivity (SDP) Coordinating Group December 13 - 14, 2001 Vanderbilt University, Nashville, TN. Participant White Papers at <http://www.itrd.gov/iwg/pca/sdp/sdp-workshop/vanderbilt/>
- NR-30** Proposal for a School of Design at the University of California, Irvine. November 2002. Accessible at <http://www.evc.uci.edu/growth/design/SoD-proposal.pdf>. School of Design proposal committee (Chair: Taylor).
- NR-31** Scott Hendrickson, Eric Dashofy, Adrita Bhor, Richard N. Taylor, Santiago Li, Nghi Nguyen, “An Approach for Tracing and Understanding Asynchronous Systems”, Technical Report, Institute for Software Research, No. UCI-ISR-02-7, December 2002.
- NR-32** Jie Ren, Richard N. Taylor, “Incorporating Off-The-Shelf Components with Event-based Integration”, Technical Report, Institute for Software Research, No. UCI-ISR-02-2, April 2003.
- NR-33** Justin R. Erenkrantz, Richard N. Taylor, “Supporting Distributed and Decentralized Projects: Drawing Lessons from the Open Source Community”, Technical Report, Institute for Software Research, No. UCI-ISR-03-4, June 2003.
- NR-34** Rohit Khare and Richard N. Taylor, “Extending the REpresentational State Transfer (REST) Architectural Style for Decentralized Systems”, Technical Report, Institute for Software Research, No. UCI-ISR-03-8, September 2003.
- NR-35** Justin Erenkrantz, Girish Suryanarayana, Scott Hendrickson, Richard Taylor, “PACE: An Architectural Style for Trust Management in Decentralized Applications”, Technical Report, Institute for Software Research, No. UCI-ISR-03-9, September 2003.
- NR-36** Peyman Oreizy and Richard N. Taylor, “Decentralized Software Evolution”, Technical Report, Institute for Software Research, No. UCI-ISR-03-10, September 2003
- NR-37** Girish Suryanarayana, Richard N. Taylor. A Survey of Trust Management and Resource Discovery Technologies in Peer-to-Peer Applications (abstract, paper). Technical Report, Institute for Software Research, No. UCI-ISR-04-6. July 2004.
- NR-38** Jie Ren, Richard N. Taylor. An Automatic and Generic Framework for Ranking Research Institutions and Scholars based on Publications (abstract, paper). Technical Report, Institute for Software Research, No. UCI-ISR-04-5. June 2004
- NR-39** Girish Suryanarayana and Richard N. Taylor. TREF: A Threat-centric Comparison Framework for Decentralized Reputation Models. ISR Technical Report UCI-ISR-06-2, January 2006.
- NR-40** Mamadou H. Diallo, Girish Suryanarayana, Richard N. Taylor. Tool Support for Incorporating Trust Models into Decentralized Applications (abstract, paper). Technical Report, Institute for Software Research, No. UCI-ISR-06-4. April 2006
- NR-41** Hazeline Asuncion, Frederic Francois, Richard N. Taylor. An End-To-End Software Traceability Tool in an Industrial Context (abstract, paper). Technical Report, Institute for Software Research, No. UCI-ISR-06-16. October 2006

- NR-42** Justin R. Erenkrantz, Michael Gorlick, Girish Suryanarayana, Richard N. Taylor. Harmonizing Architectural Dissonance in REST-based Architectures (abstract, paper) Technical Report, Institute for Software Research, No. UCI-ISR-06-18. December 2006.
- NR-43** Dashofy, Eric; Asuncion, Hazel; Hendrickson, Scott; Suryanarayana, Girish; Georgas, John; Taylor, Richard; ArchStudio 4: An Architecture-Based Meta-Modeling Environment. Software Engineering - Companion, 2007. ICSE 2007 Companion. 29th International Conference on 20-26 May 2007 Page(s):67 - 68 Digital Object Identifier 10.1109/ICSECOMPANION.2007.21
- NR-44** Justin Erenkrantz, Michael Gorlick, and Richard N. Taylor. Rethinking Web Services from First Principles. 2nd International Conference on Design Science Research in Information Systems & Technology (DESRIST 2007). May 13-15, 2007, Pasadena, California, USA (pp. 60-64).
- NR-45** Girish Suryanarayana, Richard N. Taylor. SIFT: A Simulation Framework for Analyzing Decentralized Reputation-based Trust Models (abstract) UCI-ISR-07-5. August 2007.
- NR-46** Girish Suryanarayana, Mamadou Diallo, Richard N. Taylor. A Generic Framework for Modeling Decentralized Reputation-based Trust Models (abstract) Technical Report, Institute for Software Research, No. UCI-ISR-07-4. August 2007
- NR-47** Cheng, B. H., Lemos, R. d., Fickas, S., Garlan, D., Litoiu, M., Magee, J., Muller, H. A., and Taylor, R. SEAMS 2007: Software Engineering for Adaptive and Self-Managing Systems. In Companion To the Proceedings of the 29th international Conference on Software Engineering (May 20 - 26, 2007). International Conference on Software Engineering. IEEE Computer Society, Washington, DC, 152-153. DOI= <http://dx.doi.org/10.1109/ICSECOMPANION.2007.64>
- NR-48** Richard N. Taylor. Software Architecture: Many Faces, Many Places, Yet a Central Discipline. Proceedings of the 7th joint meeting of the European Software Engineering Conference (ESEC) and the ACM SIGSOFT Symposium on the Foundations of Software Engineering (FSE), August 24-28 2009, Amsterdam, The Netherlands. Page 303. (Abstract for Keynote talk).
- NR-49** Justin Erenkrantz, Michael Gorlick, Richard N. Taylor. "CREST: A New Model for Decentralized, Internet-Scale Applications." ISR Tech Report UCI-ISR-09-4.
- NR-50** Leyna C. Cotran and Richard N. Taylor. "Applying Software Design and Requirements Engineering Techniques to System Conception. " ISR Tech Report UCI-ISR-10-1.
- NR-51** Nenad Medvidovic and Richard N. Taylor. "Software Architecture: Foundations, Theory, and Practice." ICSE 2010 Tutorial summary. Volume 2 of the ICSE '10 Proceedings, pp. 471-472. Cape Town, South Africa, May 2010.
- NR-52** Michael Gorlick, Justin Erenkrantz, and Richard N. Taylor. "The Infrastructure of a Computational Web." ISR Tech Report UCI-ISR-10-3.
- NR-53** Hazel Asuncion and Richard N. Taylor. "Architecture-Centric Traceability for Stakeholders: Technical Foundations". ISR Technical Report UCI-ISR-11-2, May 2011.
- NR-54** Christoph Dorn and Richard N. Taylor. "Mapping Software Architecture Styles and Collaboration Patterns for Engineering Adaptive Mixed Systems". ISR Technical Report UCI-ISR-11-4, June 2011.

- NR-55** Yongjie Zheng and Richard N. Taylor. “A Rationalization of Confusion, Challenges, and Techniques in Model-Based Software Development”. ISR Technical Report UCI-ISR-11-5, August 2011.
- NR-56** Michael Gorlick, Kyle Strasser, Richard N. Taylor. “COAST: Architectures for Decentralized On-Demand Tailored Services.” ISR Technical Report UCI-ISR-12-2, April 2012.
- NR-57** Michael Gorlick, Kyle Strasser, Richard N. Taylor. “Motile: Mobile Code for Decentralized On-Demand Tailored Services.” ISR Technical Report UCI-ISR-12-3, April 2012. (Now superseded by UCI-ISR-13-1).
- NR-58** Christoph Dorn and Richard N. Taylor. “Architecture-Driven Modeling of Adaptive Collaboration Structures in Large-Scale Social Web Applications”. ISR Technical Report UCI-ISR-12-5, May 2012.
- NR-59** Alegria Baquero, Richard Taylor. “A Multidimensional Evaluation of Integrative E-commerce Architectures.” ISR Technical Report UCI-ISR-12-9, September 2012.
- NR-60** Michael M. Gorlick, Richard N. Taylor. “Communication and Capability URLs in COAST-based Decentralized Services.” ISR Technical Report UCI-ISR-12-11, December 2012.
- NR-61** Leyna C. Cotran, Eric M. Dashofy, Richard N. Taylor. “A Tagging-Based Approach for Eliciting Engineering Requirements in Established Domains.” ISR Technical Report UCI-ISR-12-12, December 2012.
- NR-62** Michael Gorlick, Richard N. Taylor. “Motile: Mobile Code for Decentralized On-Demand Tailored Services.” ISR Technical Report UCI-ISR-13-1, June 2013.
- NR-63** Richard N. Taylor. “The Role of Architectural Styles in Successful Software Ecosystems.” Proceedings of the 17th International Software Product Line Conference, (SPLC17), Extended Abstract for Keynote Talk, pp. 2-4, August 2013.
- NR-64** Matias Giorgio and Richard N. Taylor. “Accountability Through Architecture for Decentralized Systems: A Preliminary Assessment.” ISR Technical Report UCI-ISR-15-2, October 2015.
- NR-65** Richard N. Taylor. “A History of Software Engineering in ICS at UC Irvine.” ISR Technical Report UCI-ISR-18-5, October 2018.

GRANTS,
CONTRACTS, AND
AWARDS

PIs	Amount	Sponsors	Title	Period
Taylor	\$199,960	NSF	EAGER: Accountability Through Architecture for Decentralized Systems	9/14-8/16
Taylor	\$20,000	NSF	Student Participant Support for the ICSE 2011 Doctoral Symposium	9/10-8/11
Taylor	\$499,596	NSF	Making and Tracing: Architecture-centric Information Integration	9/09-8/12
Scacchi, et.al.	\$2,997,936	NSF	HCC: Large: Decentralized Virtual Activities and Technologies: A Socio-Technical Approach	9/08-8/11
Taylor	\$367,283	NSF	Collaborative Research: Recombinant Services - Recasting the Web for Continuously Evolving Systems	9/08-8/12
Taylor	\$27,000	IBM	IBM Eclipse Innovation Award	06-07
Taylor	\$85,000	Boeing Aerospace Inc.	Architecture Description Language (ADL) Capture of Hierarchical and Dynamic Architectures	1/1/06-12/31/08
Taylor, Dourish	\$455,000	NSF	A Software Architecture Approach for Decentralized Reputation Management	10/05-9/08
Taylor	\$775,000	NSF	Designing Architectures for Networked Applications: A RESTful Approach	10/04-1/09
Taylor	\$270,000	NSF	Self-Adaptive Software	9/04-8/07
Taylor	\$778,335	Dept. of Education + UCI match	GAANN Graduate Fellowships in Informatics	8/15/04-8/14/07
Taylor, van der Hoek	\$147,500	Boeing	Software Architecture-based Development of Product Lines for the Tactical Radio Domain	1/1/04-12/31/05
Taylor, van der Hoek	\$40,000	NASA Jet Propulsion Laboratory	Extensible Architecture Technology for Managing Complex Space Data Systems	12/17/03-8/31/04
Taylor, Dourish, Kobsa, et.al.	\$1,800,000	NSF	ITR: An Integrated Social and Technical Approach to the Development of Distributed, Inter-organizational Applications	10/01/02-9/30/06
Taylor	\$8700.	UC Discovery Program	Sharing Research Through the ISR Forum	5/9/2003-3/24/2004
Redmiles, et.al.	\$92,797	NASA Ames	Collaborative Software Engineering Tools Workshop and Follow-up	4/15/02-10/14/03

Taylor, Rosenblum, Redmiles, van der Hoek	\$1,310,000	DARPA/Air Force Research Laboratory	Proteus: Assessment and Adaptation Through Dynamic Architecture Technology (F30602-00-2-0607)	6/29/00–6/28/03
Taylor, Rosenblum	\$3,247,765	DARPA/Air Force Research Laboratory	Architecture-centric Dynamic Adaptation of Deeply Networked Embedded Systems (F30602-99-C-0174) (\$980,400 authorized)	9/99–2/01
Taylor	\$70,629	UC MI-CRO, Sun Microsystems	Process/Workflow Technology in Support of Computer Mediated Learning	7/97–6/98
Taylor	\$23,251	UC MI-CRO, Hughes	Employing Connector Technologies in Software Architecture	7/97–6/98
Taylor, Redmiles	\$2,606,666	DARPA/Rome Labs	Open Technology for Software Evolution: Hyperware, Architecture, and Process	11/96–4/00
Taylor	\$31,434	UC MI-CRO, Northrop-Grumman	Software Architecture Descriptions and Prototyping	7/96–6/97
Taylor	\$34,288	UC MI-CRO, Northrop	Heterogeneous Hypermedia in Support of Software Systems Evolution	7/95–12/96
Taylor, Selby, Richardson, Young	\$2,975,426	DARPA	Research in Advanced Environments (F30602-94-C-0218)	6/94–1/98
Taylor	\$18,000	UC MI-CRO, Northrop	Process Support for Software Development Teams	7/94–6/95
Taylor, Selby	\$2,507,000	DARPA	Infrastructure and Components for Team-Based Development, Analysis, and Maintenance of Incrementally Improved Software Systems (MDA972-91- J-1010)	7/91–6/94
Taylor	\$206,530	NSF	Presidential Young Investigator Award, National Science Foundation, (CCR-8451421)	1985–1989
Taylor	\$82,030	Hughes, TRW, Sun, Alcoa	Presidential Young Investigator Award, Industrial match	1985–1989
Taylor, Selby	\$2,170,000	NSF, in cooperation with DARPA	Arcadia: An Environment for the Development of Reliable Real-Time and Concurrent Software (CCR-8704311)	1987–90
Taylor, 6 co-PIs	\$3,101,763	NSF	Coordinated Experimental Research Grant, A Laboratory for Software Research (CCR-8521398)	1986–1991

Taylor	\$98,099	NSF	Arcadia: An Environment for the Analysis, Testing, and Debugging of Concurrent Software (DCR-8502558/8644380)	1985-87
Taylor	\$50,000	UC MI-CRO, Hughes Aircraft	Sponsored Research Project	1985-87
Taylor	\$15,000	Alcoa Foundation	Unrestricted Grant	1985-1987
Taylor	\$15,151 (CDN)	NSERC Canada	Operating Grant	4/83-3/84
Taylor	\$2,794 (CDN)	NSERC Canada	Operating Grant	4/82-3/83
Taylor	\$8,500 (CDN)	U. Victoria, NSERC	President's NSERC General Grant for Research Programs	4/81-3/82

KEYNOTES, DISTINGUISHED LECTURES, COLLOQUIA, AND OTHER PRESENTATIONS	May 1980	Colloquium	University of Victoria, Victoria, British Columbia
	November 5, 1981	Colloquium	University of Virginia, Char- lottesville
	February 11, 1982	Colloquium	University of Washington, Seattle
	February 19, 1982	Colloquium	University of Massachusetts, Amherst
	February 26, 1982	Colloquium	University of California, San Diego
	March 1, 1982	Colloquium	University of California, Irvine
	April 2, 1982	Colloquium	Oregon Graduate Center, Port- land
	November 16, 1982	Seminar	Stanford University, Stanford
	March 17, 1983	Colloquium	Aerospace Corporation, El Se- gundo
	September 13, 1983	Colloquium	University of Colorado, Boulder
	October 17, 1983	Tutorial	Naval Weapons Center, China Lake
	April 26, 1984	Colloquium	NASA Langley Research Center, Hampton
	October 22, 1984	Invited Speaker	Los Angeles SIGAda Meeting
	October 15-17, 1985	Invited Participant	Workshop on Strategies for the Software Factory, Software Engi- neering Institute, Pittsburgh
	November 5, 1985	Colloquium	University of California, Santa Barbara
	November 26, 1985	Colloquium	University of California, Berkeley
	May 15, 1986	Colloquium	LRI, Universite de Paris-Sud, Or- say, France
	June 18, 1986	Presentation	Sun Microsystems, Mountain View, California
	July 8, 1986	Colloquium	Alcoa Technical Center, Pitts- burgh
	August 25, 1986	Colloquium	Hughes Aircraft Corporation, GSG, Fullerton
	February 25, 1987	Colloquium	Hughes Aircraft Corporate HQ, Los Angeles
	April 10, 1987	Colloquium	Hughes Aircraft Corporation, GSG, Fullerton
	July 7, 1987	Colloquium	University of Washington, Seat- tle, Washington
November 6, 1987	Colloquium	INRIA Sophia-Antipolis, France	
February 25, 1988	Colloquium	Politecnico di Milano, Italy	
March 24, 1988	Invited Lecture	American College in Paris, France	
December 2, 1988	Colloquium	Hughes Aircraft Corporation, GSG, Fullerton	
February 2, 1989	Colloquium	University of Southern Califor- nia, Los Angeles	
April 12, 1989	Presentation	University of Osaka, Osaka, Japan	
May 25, 1989	Presentation	Rockwell International, Seal Beach, California	

August 1–3, 1989	Position paper	Workshop on Directions in Software Analysis and Testing, San Diego
June 12, 1989	Colloquium	Hughes Aircraft Corporation, GSG, Fullerton
October 3, 1989	Invited Plenary Speaker	Rockwell International Software Engineering Symposium, Dallas
October 6, 1989	Presentation	MCC, Austin
November 15, 1989	Distinguished Speaker	George Mason University, Fairfax, Virginia
March 22, 1990	Colloquium	University of Dortmund, Dortmund, FRG
March 23, 1990	Presentation	Eureka Software Factory, Berlin, FRG
March 26, 1990	Colloquium	CEFRIEL, Milano, Italy
March 27, 1990	Colloquium	Politecnico di Milano, Italy
May 11, 1990	Colloquium	UC Riverside
December 19, 1990	Colloquium	Hewlett Packard, Sunnyvale
May 10, 1991	Distinguished Lecturer	University of Victoria, Canada
May 12, 1991	Distinguished Lecturer	ESF Series, Austin, Texas
February 19, 1992	Colloquium	The Aerospace Corporation, Los Angeles
June 19, 1992	Colloquium	INRIA, Sophia-Antipolis, France
June 22, 1992	Colloquium	CAP SOGETA, Grenoble, France
June 23, 1992	Colloquium	IMAG Laboratoire, Grenoble, France
July 6, 1992	Colloquium	INRIA, Rocquencourt, France
June 22, 1993	Colloquium	University of British Columbia, Vancouver
June 23, 1993	Colloquium	MPR Teltech, Ltd., Burnaby, B.C.
September 10, 1993	Colloquium	IRUS Bay Area Roundtable, Palo Alto
July 25, 1994	Colloquium	Centre de recherche informatique de Montreal
January 10, 1995	Colloquium	Politecnico di Milano, Italy
April 13, 1995	Colloquium	INRIA, Sophia-Antipolis, France
May 18, 1995	Colloquium	Technical University of Vienna
February 7, 1996	Distinguished Lecturer	Columbia University
June 3, 1996	Colloquium	UC Riverside
September 15, 1997	Colloquium	INRIA Sophia-Antipolis
March 2, 1998	Colloquium	Hughes/Raytheon, El Segundo
Sept. 27th & August 24-25 1999		NSF Washington
June 26, 1998	Colloquium	So. California SPIN, UCI
May 1, 1999	Invited Speaker	UCI CEO Roundtable Retreat
May 11, 1999	Distinguished Lecturer	University of Alberta
June 1, 1999	Colloquium	University of Washington
March 6, 2000	Colloquium	Royal Swedish Academy of Engineering Sciences (at UC Irvine)

June 21, 2000	Distinguished Lecture	NASA Jet Propulsion Laboratory
December, 2000	Colloquium	Politecnico di Milano
December, 2000	Colloquium	University of Florence
December 2000	Colloquium	University of Venice
May 15, 2001	Keynote Speaker	STRAW 01
March 2003	Panelist	Ground Systems Architecture Workshop (GSAW 2003)
May 2003	Speaker	Boeing, Anaheim
June 2003	Speaker	Raytheon, El Segundo
November 2005	Colloquium	University College, London
December 2005	Colloquium	University College, London
September, 2006	Keynote Speaker	European Workshop on Software Architecture (EWSA 2006) and French Conference on Software Architecture (CAL'2006)
October, 2006	Distinguished Lecturer	University of Minnesota
October, 2006	Distinguished Lecturer	Iowa State University
August 2008	Colloquium	Federal University of Rio de Janeiro
August 2008	Keynote Speaker	II Brazilian Symposium on Software Components, Architectures, and Reuse, Porto Alegre
September 2008	Tutorial	ISSSE Summer School on Software Engineering, Salerno, Italy
March 2009	Panelist	Ground Systems Architecture Workshop (GSAW 2009)
June 2009	Invited Speaker	Software Architecture Challenges Workshop (USC)
June 2009	Panelist	Software Architecture Challenges Workshop (USC)
June 2009	Invited Speaker	ERC Research Project (Como, Italy)
August 2009	Keynote Speaker	ESEC/FSE 2009 (Amsterdam, The Netherlands)
October 2009	Guest	"Inside OC" (PBS broadcast on KOCE television)
December 2009	Colloquium	Siemens, Bangalore, India
December 2009	Colloquium	Infosys, Bangalore, India
March 2010	Invited Speaker	USC Center for Systems and Software Engineering
May 2010	Tutorial	2010 ICSE (Cape Town)
September 2010	Colloquium	National ICT Australia, Sydney
September 2010	Colloquium	Swinburne University, Melbourne
September 2010	Colloquium	University of Auckland, New Zealand
February 2011	Invited Speaker	IFIP 2.9 Working Group (Requirements Engineering) (Cancun, Mexico)
March 2011	"Nano-Keynote"	GSAW Working Group on Requirements Engineering (Los Angeles)

March 2012	Tutorial	Samsung Advanced Technology Training Institute, Korea
March 2012	Tutorial	Sogang University, Seoul, Korea
May 2012	Presentation	ISR Forum, UC Irvine
August 2012	Panelist	WICSA/European Conference on Software Architecture, Helsinki
May 2013	Presentation	ISR Forum, UC Irvine
August 2013	Keynote	17th International Software Product Line Conference, Tokyo
December 2013	Colloquium	National University of Singapore, Singapore
December 2013	Keynote	20th Asia-Pacific Software Engineering Conference, Bangkok
May 2014	Presentation	ISR Forum, UC Irvine
May 2016	Presentation	ISR Forum, UC Irvine
September 2017	Keynote (Impact Award Presentation)	ESEC-FSE 2017, Paderborn Germany

UNIVERSITY
SERVICE

Systemwide Service

- Quinquennial Committee to review the MICRO Program 1998
- University of California MICRO Executive Committee 1986–1992

Campus Service

- Director, Institute for Software Research 1999–present
- OIT Faculty Advisory Group 2010-2011
- Committee on Planning and Budget 2002-03
- Academic Planning Group 2002-03
- Chair, School of Design Proposal Committee 2001-2005
- Study Group for School of Design 2000
- Task Force to Identify Barriers to Interdisciplinary Research 2000
- Member, National Fuel Cell Research Center 2000-03
- Academic Planning Group 1999-2000
- EVC Search Committee 1999-2000
- Council on Educational Policy 1999-2000
- CRITO 5-year Review Committee 1999-2000
- Conflict of Interest Oversight Committee 1996–99
- Director, Irvine Research Unit in Software (IRUS) 1994–99
- Joint Senate-Administration Task Force on Information Studies 1996
- Strategic Planning Session of the Office of Research and Graduate Studies 1996
- Advisory Committee on University/Industry Research Relations 1993–94
- ICS Faculty Chair 1993–94
- ICS Representative to Academic Senate 1991–93

School Service

- Development of B.S., M.S., and Ph.D programs in Software Engineering (committee) 2009-11
- Department Chair, Informatics 1/2003-6/2004
- Constitution and Bylaws Drafting Committee 2003
- Space Committee 2007-08
- Bren Chair Search Committee (Chair) 2007-08
- Computer Science Department Chair Advisory Selection Committee 2009, 2010
- Informatics Department Chair Advisory Selection Committee 2010
- ICS Computing & Networking Policy Committee 2010

Departmental Service (incl. ICS pre-schoolhood)

- Associate Chair, Facilities 1999–2000
- Executive Committee 1984–1985, 86–87, 93–94 (ex officio), 95–96, 97–99
2001-2002.
- Recruiting Committee (Chair) 1988–1989, 91–92, 93–94, 95–96, 98–99, 00–01,
02-03, 07–08
- Recruiting Committee (Member) 1997–98, 07–08.
- Space Committee 1989–1990, 92–93, 94, 95–96.
- Personnel Committee 1990–1993 (Chair, 92–93)
- Graduate Policy Committee. 1991–93, 2001–02
- Undergraduate Policy Committee 2002–03.
- Department Planning Committee. 1991–92. (Chair) 1989–1990
- External Relations (Chair) 1990–1991
- Ph.D Admissions Committee 1983–1984, 86–87
- Computing Resources Committee 1985–1987. 2008-2010. Chair 85–86
- Distinguished Colloquia Organizer 1985–86
- Associate Chair–Research 1985 - 1986

PH.D.
COMMITTEE
CHAIR

Student	Year	Position
Steven Willson	12/86	Studio Technical Director, ArenaNet <i>Persistent Prototypes</i>
Ray Klefstad	5/88	Lecturer, University of California, Irvine <i>Maintaining a Uniform User Interface for an Ada Programming Environment</i>
Michal Young	8/89	Associate Professor, Computer Sciences Department, University of Oregon NSF Presidential Young Investigator <i>Analysis Techniques for Software Fault Detection</i>
M. Gregory James	9/92	Lead Product Manager, American Express <i>ProdUser: A Process for Designing User Interfaces</i> (Co-Chaired with Richard Selby)
David Levine	6/93	Vice President of Research and Development, CombineNET <i>Structural Reengineering for Static Concurrency Analysis</i>
Dennis Troup	12/93	Independent Consultant <i>A User Interface Management System Architecture for Supporting Separation of Concerns and Extensibility</i>
Patrick Young	6/94	Lecturer in Computer Science, Stanford University <i>Customizable Process Specification and Enactment for Technical and Non-Technical Users</i>
Holly Sharon Hildreth	6/96	Booz Allen Hamilton <i>Domain-Based Requirements and Safety Analysis for Process-Control Software</i>
John Thomas Self	6/96	BAE Systems <i>Using Static Concurrency Analysis to Understand the Dynamic Behavior of Concurrent Programs</i>
Kenneth Mark Anderson	6/97	Professor and Associate Dean for Education, University of Colorado, Boulder <i>Pervasive Hypermedia</i>
Gregory Alan Bolcer	12/98	CTO, Bitvore Corporation <i>Flexible and Customizable Workflow Execution on the WWW</i>
Neno Medvidovic	12/98	Professor and Associate Chair, University of Southern California NSF CAREER Awardee <i>Software Architectures and Evolution</i>
Peyman Oreizy	3/2000	Founder, Dynamic Variable LLC <i>Open-architecture Software: A flexible approach to decentralized software evolution</i>

Roy Thomas Fielding	9/2000	Senior Principal Scientist, Adobe Systems 1999 ACM Software Systems Award 2000 UCI Lauds & Laurels Outstanding Graduate Student <i>Architectural Styles and the Design of Network-based Software Architectures</i>
E. James Whitehead, Jr.	9/2000	Professor and Former Chair, University of California, Santa Cruz NSF CAREER Awardee <i>An Analysis of the Hypertext Versioning Domain</i>
Robb Klashner	6/2002	Assistant Professor, Information Systems Department, New Jersey Institute of Technology <i>Using Architectural Style to Design and Evolve Complex Integrated Information Infrastructure</i>
Rohit Khare	12/2003	Google, Inc. <i>Extending the REpresentational State Transfer (REST) Architectural Style for Decentralized Systems</i>
Peter Kammer	5/2004	Google, Inc. <i>A Distributed Architectural Approach to Supporting Work Practice</i>
Jie Ren	5/2006	Google, Inc. <i>A Connector-Centric Approach to Architectural Access Control</i>
Girish Suryanarayana	3/2007	Senior Key Expert, Siemens Corporate Research & Technologies, India. <i>Selection and Architecture-based Composition of Trust Models in Decentralized Applications</i>
Eric Dashofy	6/2007	Deputy CIO, The Aerospace Corporation <i>Supporting Stakeholder-Driven Multi-View Software Architecture Modeling</i>
John Georgas	6/2008	Professor and Vice Provost for Academic Operations, Northern Arizona University <i>Supporting Architecture- and Policy-Based Self-Adaptive Software Systems</i>
Hazel Asuncion	9/2009	Associate Professor, University of Washington, Bothell NSF CAREER Awardee <i>Architecture-Centric Traceability for Stakeholders</i>
Justin Erenkrantz	9/2009	Senior Vice President, Software Engineering at MLB Advanced Media, L.P. <i>Computational REST: A new model for Decentralized, Internet-Scale Applications</i>
Arthur Hitomi	9/2010	CTO, Numescent <i>An Environment for Enabling On Demand Application Delivery</i>
Scott Hendrickson	3/2011	Software Engineer, Google <i>Modeling and Evolving Software Product Line Architectures using Change-Sets and Relationships</i>

Yongjie Zheng	6/2012	Associate Professor, California State University, San Marcos <i>Enhancing Architecture-Implementation Conformance with Change Management and Support for Behavioral Mapping</i>
Leyna Cotran	6/2013	Lyft Corporation <i>A Tagging-Based Approach for Eliciting Requirements in Established Domains</i>
Alegria Baquero Merino	12/2014	ZocDoc <i>COAST Services: Achieving Service Customization and Policy-Based Differential Access in Personal Information Systems</i>
Michael M. Gorlick	6/2016	The Aerospace Corporation <i>Computational State Transfer: An Architectural Style for Decentralized Systems</i>

COURSES TAUGHT

Session	Course & Title	Enrollment
University of Victoria		
Spring 1981	CS 374 Data Structures	54
	CS 171 Computer Applications	61
Fall 1981	CS 365 Software Engineering	74
	CS 100 Elementary Computing	60
Spring 1982	CS 325 Data Structures	36
	CS 100 Elementary Computing	89
University of California, Irvine		
Fall 1982	ICS 195 Project in System Design 36	
Winter 1983	ICS 2 Programming and Problem Solving II	148
Spring 1983	ICS 280E Topics in Verification and Testing	6
Fall 1983	ICS 195 Project in System Design	37
	ICS 245 Introduction to Software Engineering	14
	ICS 299 Individual Study	1
Winter 1984	ICS 180C Special Topics - Real-Time Systems	18
	ICS 280G Special Topics - Debugging	8
	ICS 199 Individual Study	5
	ICS 299 Individual Study	1
Spring 1984	ICS 299 Individual Study	1
Fall 1984	ICS 195 Project in System Design	33
	ICS 280A Programming Environments	7
	ICS 199 Individual Study	1
Winter 1985	ICS 180 Special Topics - Real-Time Systems	12
	ICS 245 Software Engineering	5
	ICS 280 Programming Environments	6
	ICS 199 Individual Study	2
Spring 1985	ICS 199 Individual Study	3
	ICS 299 Individual Study	3
Fall 1985	ICS 195 Project in System Design	43
	ICS 250 Seminar in Programming Languages	13
	ICS 299 Individual Study	4
Winter 1986	ICS 141 Programming Languages	43
	ICS 245 Software Engineering	10
	ICS 199 Individual Study	6
	ICS 299 Individual Study	5
Spring 1986	ICS 199 Individual Study	9
	ICS 299 Individual Study	4
Fall 1986	ICS 199 Individual Study	2
	ICS 299 Individual Study	5
Winter 1987	ICS 245 Software Engineering	13
	ICS 199 Individual Study	1
	ICS 290D Arcadia	5
	ICS 299 Individual Study	5
Spring 1987	ICS 280D Formalizing the SW Process	9
	ICS 290D Arcadia	4
	ICS 299 Individual Study	4
	ICS 298 Thesis Supervision	1

AY 87-88	<i>On Sabbatical</i>	
Fall 1988	ICS 290S Softtalks	16
	ICS 290C Arcadia	8
	ICS 298 Thesis Supervision	1
	ICS 299 Individual Study	3
Winter 1989	ICS 52 Systematic Software Construction	45
	ICS 198 Honors Research	1
	ICS 245B Software Engineering	11
	ICS 290C Arcadia	8
	ICS 298 Thesis Supervision	1
	ICS 299 Individual Study	2
Spring 1989	ICS 198 Honors Research	1
	ICS 199 Individual Study	1
	ICS 290D Arcadia	10
	ICS 290S Research - Software	15
	ICS 298 Thesis Supervision	1
	ICS 299 Individual Study	3
Fall 1989	ICS 199 Individual Study	1
	ICS 290C Arcadia	16
	ICS 299 Individual Study	6
Winter 1990	ICS 52 Systematic Software Construction	47
	ICS 198 Honors Research	3
	ICS 199 Individual Study	1
	ICS 290D Arcadia	15
	ICS 299 Individual Study	7
Spring 1990	ICS 121 Introduction to Software Engineering	54
	ICS 198 Honors Research	3
	ICS 280G Software Environments	5
	ICS 290D Arcadia	10
	ICS 299 Individual Study	5
Fall 1990	ICS 52 Systematic Software Construction	9
	ICS 280E Seminar in Concurrency	8
	ICS 290D Arcadia	8
	ICS 290S Softtalks	17
	ICS 299 Individual Study	6
Winter 1991	ICS 52 Systematic Software Construction	75
	ICS 198 Honors Research	1
	ICS 199 Individual Study	1
	ICS 290D Arcadia	11
	ICS 298 Thesis Supervision	1
	ICS 299 Individual Study	5
Spring 1991	ICS 198 Honors Research	1
	ICS 199 Individual Study	1
	ICS 290D Arcadia	11
	ICS 298 Thesis Supervision	1
	ICS 299 Individual Study	6

Fall 1991	ICS 198 Honors Research	1
	ICS 199 Individual Study	4
	ICS 280C User Interfaces	4
	ICS 290D Arcadia	10
	ICS 298 Thesis Supervision	1
	ICS 299 Individual Study	5
Winter 1992	ICS 52 Systematic Software Construction	101
	ICS 196 Tutoring in ICS	1
	ICS 198 Honors Research	1
	ICS 199 Individual Study	2
	ICS 290D Arcadia	11
	ICS 290S Softtalks	12
Spring 1992	ICS 299 Individual Study	5
	ICS 125B Project in System Design	23
	ICS 199 Individual Study	3
	ICS 290D Arcadia	10
Fall 1992	ICS 299 Individual Study	5
	ICS 125B Project in System Design	13
	ICS 245A Software Engineering	49
	ICS 290D Arcadia	9
	ICS 298 Thesis Supervision	3
Winter 1993	ICS 299 Individual Study	2
	ICS 52 Systematic Software Construction	54
	ICS 198 Honors Research	1
	ICS 280 Software Environment Architectures	11
	ICS 290 Arcadia	8
	ICS 290 Softtalks	10
	ICS 298 Thesis Supervision	3
Spring 1993	ICS 299 Individual Study	2
	ICS 199 Individual Study	2
	ICS 290 Arcadia	9
	ICS 298 Thesis Supervision	3
Fall 1993	ICS 299 Individual Study	3
	ICS 125B Project in System Design	33
	ICS 199 Individual Study	1
	ICS 290 Arcadia	9
Winter 1994	ICS 298 Thesis Supervision	1
	ICS 299 Individual Study	5
	ICS 227 User Interfaces and Software Engineering	18
	ICS 229 Seminar in Software	15
	ICS 290 Arcadia	12
Spring 1994	ICS 298 Thesis Supervision	1
	ICS 299 Individual Study	4
	ICS 290 Arcadia	11
	ICS 299 Individual Study	6

Fall 1994	ICS 125B Project in System Design	29
	ICS 229 Seminar in Software	17
	ICS 290 Arcadia	15
	ICS 298 Thesis Supervision	2
	ICS 299 Individual Study	8
Winter 1995	<i>On Sabbatical</i>	
	ICS 199 Individual Study	1
	ICS 290 Arcadia	12
	ICS 298 Thesis Supervision	1
	ICS 299 Individual Study	11
Spring 1995	<i>On Sabbatical</i>	
	ICS 199 Individual Study	1
	ICS 290 Arcadia	13
	ICS 298 Thesis Supervision	3
	ICS 299 Individual Study	12
Fall 1995	ICS 280D Software Architectures	7
	ICS 290 Arcadia	12
	ICS 298 Thesis Supervision	3
	ICS 299 Individual Study	8
Winter 1996	ICS 52 Systematic Software Construction	63
	ICS 125B Project in System Design	12
	ICS 229 Seminar in Software	10
	ICS 290 Arcadia	8
	ICS 298 Thesis Supervision	3
	ICS 299 Individual Study	8
Spring 1996	ICS 199 Individual Study	3
	ICS 228 Software Environments	13
	ICS 290 Arcadia	11
	ICS 298 Thesis Supervision 3	
	ICS 299 Individual Study	8
Fall 1996	ICS 221 Software Engineering	12
	ICS 229 Seminar in Software	12
	ICS 290 Arcadia	8
	ICS 298 Thesis Supervision	1
	ICS 299 Individual Study	7
Winter 1997	ICS 52 Systematic Software Construction	106
	ICS 125B Project in System Design	21
	ICS 198 Honors Research	1
	ICS 199 Individual Study	1
	ICS 290 Research Seminar	7
	ICS 298 Thesis Supervision	2
	ICS 299 Individual Study	6
Spring 1997	ICS 198 Honors Research	1
	ICS 199 Individual Study	5
	ICS 290 Research Seminar	8
	ICS 298 Thesis Supervision	1
	ICS 299 Individual Study	7

Fall 1997	ICS 126A Comprehensive Project in System Evolution	14
	ICS 199 Individual Study	1
	ICS 290 Research Seminar	8
	ICS 298 Thesis Supervision	1
	ICS 299 Individual Study	7
Winter 1998	ICS 125 Project in System Design (Co-taught with Debra J. Richardson)	48
	ICS 126B Comprehensive Project in System Evolution	5
	ICS 198 Honors Research	2
	ICS 227 User Interfaces and Software Engineering	9
	ICS 290 Research Seminar	4
	ICS 298 Thesis Supervision 3	
	ICS 299 Individual Study	4
Spring 1998	ICS 198 Honors Research	2
	ICS 290 Research Seminar	6
	ICS 298 Thesis Supervision	3
	ICS 299 Individual Study	5
Fall 1998	ICS 290 Research Seminar	4
	ICS 298 Thesis Supervision	2
	ICS 299 Individual Study	6
Winter 1999	ICS 125 Project in Software System Design	7
	ICS 199 Individual Study	1
	ICS 228 Software Development Environments	12
	ICS 290 Research Seminar	6
	ICS 299 Individual Study	7
Spring 1999	ICS 290 Research Seminar	6
	ICS 298 Thesis Supervision	1
	ICS 299 Individual Study	7
Fall 1999	ICS 125 Project in System Design	43
	ICS 199 Individual Study	1
	ICS 290 Research Seminar	6
	ICS 298 Thesis Supervision	2
	ICS 299 Individual Study	5
Winter 2000	ICS 125 Project in System Design	31
	ICS 199 Individual Study	1
	ICS 280 Software Architecture	11
	ICS 290 Research Seminar	8
	ICS 298 Thesis Supervision	3
	ICS 299 Individual Study	3
Spring 2000	ICS 199 Individual Study	2
	ICS 290 Research Seminar	5
	ICS 298 Thesis Supervision	2
	ICS 299 Individual Study	3
Fall 2000	<i>Sabbatical in residence</i>	
	ICS 199 Individual Study	1
	ICS 229 Seminar in Software	14
	ICS 290 Research Seminar	3
	ICS 299 Individual Study	6

Winter 2001	<i>On Sabbatical</i>	
	ICS 290 Research Seminar	3
	ICS 299 Individual Study	7
Spring 2001	ICS 290 Research Seminar	3
	ICS 299 Individual Study	7
Summer 2001	ICS 199 Individual Study	1
Fall 2001	ICS 52 Introduction to Software Engineering	180
	ICS 280 Peer-to-Peer Architectures	16
	ICS 290 Research Seminar	3
	ICS 299 Individual Study	9
Winter 2002	H198 Honors Research	3
	ICS 228 Software Environments	13
	ICS 290 Research Seminar	3
	ICS 298 Thesis Supervision	2
	ICS 299 Individual Study	7
Spring 2002	ICS 123 Software Architecture and Distributed Systems	48
	ICS 127 Advanced Project in Software Engineering	12
	ICS H198 Honors Research	3
	ICS 290 Research Seminar	4
	ICS 290 Arcadia	1
	ICS 298 Thesis Supervision	3
	ICS 299 Individual Study	7
Fall 2002	ICS 52 Introduction to Software Engineering	178
	ICS 221 Software Engineering	17
	ICS 290 Research Seminar	6
	ICS 298 Thesis Supervision	1
	ICS 299 Individual Study	8
Winter 2003	ICS 280G Software Architecture	14
	ICS 290 Research Seminar	7
	ICS 298 Thesis Supervision	1
	ICS 299 Individual Study	9
Spring 2003	ICS 290 Research Seminar	6
	ICS 299 Individual Study	10
Fall 2003	ICS 125 Project in Software Systems Design	36
	ICS 290 Research Seminar	6
	ICS 298 Thesis Supervision	1
	ICS 299 Individual Study	9
Winter 2004	ICS 52 Introduction to Software Engineering	124
	ICS 198 Honors Research	2
	ICS 299 Individual Study	9
Spring 2004	ICS 198 Honors Research	2
	ICS 199 Individual Study	1
	ICS 290 Research Seminar	5
	ICS 299 Individual Study	9

Fall 2004	ICS 52 Introduction to Software Engineering	133
	ICS 125 Project in System Design	69
	ICS 229 Informatics Seminar	20
	ICS 290 Research Seminar	5
	ICS 299 Individual Study	8
Winter 2005	ICS 290 Research Seminar	5
	ICS 298 Thesis Supervision	3
	ICS 299 Individual Study	7
Spring 2005	ICS 290 Research Seminar	5
	ICS 298 Thesis Supervision	3
	ICS 299 Individual Study	7
Fall 2005	<i>On Sabbatical</i>	
	ICS 290 Research Seminar	4
	ICS 298 Thesis Supervision	4
	ICS 299 Individual Study	5
Winter 2006	<i>On Sabbatical</i>	
	ICS 199 Individual Study	1
	ICS 290 Research Seminar	5
	ICS 298 Thesis Supervision	2
	ICS 299 Individual Study	7
Spring 2006	<i>On Sabbatical</i>	
	ICS 199 Individual Study	1
	ICS 290 Research Seminar	4
	ICS 298 Thesis Supervision	1
	ICS 299 Individual Study	7
Fall 2006	INF 211 Software Engineering	13
	INF 290 Research Seminar	2
	INF 298 Thesis Supervision	3
	INF 299 Individual Study	5
Winter 2007	INF 295 Software Patents, Litigation, and Intellectual Property	10
	INF 290 Research Seminar	3
	INF 298 Thesis Supervision	3
	INF 299 Individual Study	5
Spring 2007	INF 119 Advanced Project in Software Engineering	9
	INF 290 Research Seminar	3
	INF 298 Thesis Supervision	2
	INF 299 Individual Study	5
Fall 2007	INF 211 Software Engineering	19
	INF 290 Research Seminar	3
	INF 298 Thesis Supervision	2
	INF 299 Individual Study	4
Winter 2008	INF H198 Honors Research	1
	INF 221 Software Architecture	16
	INF 290 Research Seminar	4
	INF 298 Thesis Supervision	4
	INF 299 Individual Study	4
Spring 2008	INF 123 Software Architecture & Distributed Systems	31
	INF H198 Honors Research	1
	INF 290 Research Seminar	3
	INF 298 Thesis Supervision	2
	INF 299 Individual Study	8

Fall 2008	INF 121 Software Design I	29
	INF 290 Research Seminar	3
	INF 298 Thesis Supervision	5
	INF 299 Individual Study	5
Winter 2009	INF 117 Project in Software Systems Design	11
	INF 221 Software Architecture	13
	INF 290 Research Seminar	3
	INF 298 Thesis Supervision	4
	INF 299 Individual Study	6
Spring 2009	INF 290 Research Seminar	3
	INF 298 Thesis Supervision	4
	INF 299 Individual Study	6
Fall 2009	INF 290 Research Seminar	6
	INF 298 Thesis Supervision	1
	INF 299 Individual Study	6
Winter 2010	INF 113 Requirements Analysis & Engineering	51
	INF 221 Software Architecture	6
	INF 290 Research Seminar	7
	INF 298 Thesis Supervision	2
	INF 299 Individual Study	5
Spring 2010	INF 117 Project in Software Systems Design	17
	INF 290 Research Seminar	6
	INF 298 Thesis Supervision	1
	INF 299 Individual Study	6
Fall 2010	INF 290 Research Seminar	5
	INF 299 Individual Study	6
Winter 2011	INF 113 Requirements Analysis & Engineering	46
	INF 221 Software Architecture	10
	INF 290 Research Seminar	5
	INF 298 Thesis Supervision	1
	INF 299 Individual Study	5
Spring 2011	INF 290 Research Seminar	5
	INF 298 Thesis Supervision	1
	INF 299 Individual Study	5
Fall 2011	<i>On Sabbatical</i>	
	INF 290 Research Seminar	4
	INF 298 Thesis Supervision	1
	INF 299 Individual Study	5
Winter 2012	<i>On Sabbatical</i>	
	INF 290 Research Seminar	4
	INF 298 Thesis Supervision	2
	INF 299 Individual Study	5
Spring 2012	<i>On Sabbatical</i>	
	INF 290 Research Seminar	4
	INF 298 Thesis Supervision	3
	INF 299 Individual Study	4

Winter 2013	INF 117 Project in Software Systems Design	50
	INF 221 Software Architecture	35
	INF 290 Research Seminar	2
	INF 298 Thesis Supervision	2
	INF 299 Individual Study	2
Spring 2013	INF 123 Software Architecture	18
	INF 290 Research Seminar	2
	INF 298 Thesis Supervision	1
	INF 299 Individual Study	2