

# Dewayne E. Perry

Electrical and Computer Engineering  
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## Education

Ph.D. Computer Science, May 1978. Stevens Institute of Technology, Hoboken, NJ. Dissertation: *High Level Language Features for Handling I/O Devices in Real Time Systems*.

M.S. Computer Science, May 1977. Stevens Institute of Technology, Hoboken, NJ.

Graduate studies, Philosophy (September 1962 - June 1965), Music (January 1966 - June 1967), University of California, Los Angeles.

B.A. Music and Philosophy, June 1962. Westmont College, Santa Barbara, CA.

## Academic Employment

November 1999 - present: Professor and Motorola Regents Chair of Software Engineering. Department of Electrical and Computer Engineering, Cockrell School of Engineering, The University of Texas at Austin, Austin TX.

May 2002 - March 2004, September 2010 - present; Director, Center for Advanced Research In Software Engineering (ARiSE), Department of Electrical and Computer Engineering, Cockrell School of Engineering, The University of Texas at Austin, Austin TX.

January 2000 - January 2003: Director, Executive Software Engineering Masters Program, Department of Electrical and Computer Engineering, Cockrell School of Engineering, The University of Texas at Austin, Austin TX.

September 1979 - June 1984: Visiting Faculty. Carnegie-Mellon University, Department of Computer Science, Pittsburgh PA.

September 1978 - June 1979: Affiliate Associate professor of Computer Science. Stevens Institute of Technology,

Department of Pure and Applied Mathematics, Hoboken NJ.

September 1975 - June 1976: Adjunct Assistant professor of Computer Science. Fairleigh-Dickinson University, Department of Mathematics and Physics, Madison NJ.

September 1963 - June 1965: Teaching Assistant, Philosophy. University of California, Los Angeles, CA.

September 1961 - June 1962: Teaching Assistant, Music. Westmont College, Santa Barbara CA.

## Industrial Employment

January 1996 - December 1999: Member of Technical Staff, Research. Bell Laboratories, Murray Hill NJ.

November 1983 - December 1995: Member of Technical Staff, Research. AT&T Bell Laboratories, Murray Hill NJ.

August 1973 - November 1983: President/Consultant. Pegasus Systems, Summit NJ.

January 1972 - August 1973: Programmer/Analyst. Quotron Systems Inc., Marina Del Rey CA.

June 1967 - January 1972: Associate. Planning Research Corporation, Westwood CA.

June 1965 - March 1967: R&D Programmer. System Development Corporation, Santa Monica CA.

## Awards and Invited Keynotes

Keynote, "A Unifying Theoretical Foundation for Software Engineering", 20<sup>th</sup> International Conference on Software Engineering and Data Engineering (SEDE 2011), June 2011

Best Paper Award, "Semantic Impact and Faults in Source Code Changes: An Empirical Study", Danhua Shao, Sarfraz Khurshid, and Dewayne E. Perry, Australian Software Engineering Conference (ASWEC) 2009, Gold Coast AU, April 2009

Keynote, "Issues in Architecture Evolution", European Conference on Software Architecture 2008, Paphos Cyprus, September-October 2008

Keynote, "Architecture-Centric COTS-based Development", 2<sup>nd</sup> International Workshop on Incorporating COTS Software into Software Systems, 2007 International Conference on Software Engineering, Minneapolis, May 2007.

Keynote, "Architecture and Design Intent in Component and COTS Based Systems", International Conference on COTS Based Software Systems, February 2006, Orlando FL., February 2006

Keynote, "Software Architecture: Past, Present and Future",  
European Workshop on Software Architecture 2005, Pisa Italy, June  
2005

Keynote, "Product Line Architecture: Generic Descriptions & Case  
Study ", SOFT-PI'04: SOFTware Technologies for Performance and  
Interoperability, Tulsa OK, June 2005

Keynote. "Abstraction – the Hard Core of Software Engineering."  
ETAPS 2003 Workshop: Structured Programming: The Hard Core of  
Software Engineering, Warsaw Poland, April 2003.

Keynote, "Software Architecture: Leverage for System Evolution",  
Symposium on Technology for Evolutionary Software Development,  
23 September 2002, Bonn Germany

Keynote, "Software Architecture: Leverage for System/Program  
Comprehension", International Workshop on Program  
Comprehension 2001, Toronto Canada, 13 May 2001

Keynote, "Generic Architectures: A Dynamic Case in Point",  
International Symposium on Software Reuse 2001, Toronto Canada,  
20 May 2001

Keynote, "Software Architecture and Software Engineering",  
International Conference on Software: Theory and Practice, 2000  
(ICSP2000), Beijing China, August 2000.

ICSE99 Award: Most Influential Paper ("The Inscape Environment")  
from ICSE11; Keynote: "Software Evolution and Light Semantics".  
Los Angeles CA, May 1999.

Distinguished Lecture Series in Software Development and Software  
Engineering, University of Texas at Austin, "Software Architecture  
and Software Engineering", February 1999.

Keynote, "Software Architecture and Quality", Conquest 98.  
Nuernberg Germany, September 1998 31st Annual ICL/Newcastle  
International Seminar, Software Architecture and Design: "Generic  
Software Architecture Descriptions" and "A Case Study in Product  
Line Architecture", Newcastle UK, September 1998

"Software Architecture and it's Relevance to Software Engineering",  
Coordination 1997, Berlin Germany, September 1997.

"State of the Art in Software Architecture", 1997 International  
Conference on Software Engineering, Boston Mass, May 1997.

Keynote, "Why is it so Hard to Find Feedback Control in Software  
Processes", 1996 Australasian Computer Science Conference,  
Melbourne AU, February 1996.

14th International Speaker, Washington DC Professional Development Seminars, Fall 1995, "Dimensions of Software Evolution".

"Managing Software Evolution", Bari Summer School of Software Engineering, Bari Italy, June 1995.

Keynote, "Dimensions of Evolution", International Conference on Software Maintenance, Victoria BC, Canada, September 1994

Keynote, "Software Faults in Evolving a Large, Real-Time System: a Case Study", 4th European Software Engineering Conference -- ESEC93, Garmisch, Germany, September 1993.

Keynote, Workshop on Applying Artificial Intelligence to Software Problems, 1992.

Keynote, "Industrial Strength Software Development Environments", IFIPS 89 World Congress, Software

Engineering Track, San Francisco CA, August 1989.

Best Paper, The 9th International Conference on Software Engineering, Monterey CA, April 1987, for "Software Interconnection Models".

## Professional Activities

### *Boards, Steering Committees and Panels*

Chair, International Software Process Association, 1993-Present.

Associate Editor, ACM Transactions on Embedded Computing Systems, 2004-Present.

Editorial Board, Software Process: Improvement and Practice, Wiley Interscience, 2006-Present.

Founding Member, Board of Directors, Institute of Software Engineers, 2006-2009.

SE External Examiner. Institute of Systems Science, National University of Singapore, 2005-2009.

Steering Committee, IFIP Working International Conference on Software Architecture (WICSA), 2005-2008

Advisory Board, Software Process: Improvement and Practice, Wiley Interscience, 2004-2006.

Member, Board of Directors, International Association of Software Architects, 2004-2007.

Member, Steering Committee, IFIP WG 2.10 (Software Architecture), 1999-Present.

Member, International Software Architecture Workshop Steering Committee, 1997-Present.

Co-Editor-in-Chief, Software Process: Improvement and Practice, Wiley Interscience, 1994-2004.

Member, NSF/SIGSOFT Software Engineering Impact Group, 2000-2003.

Member, Editorial Board, IEEE Transactions on Software Engineering, 1992-1999.

Member, Disciplined Engineering Board, Software Engineering Institute, CMU, 1995-1996.

Member, ICSE Steering Committee, 1993-1998

Member, Symposium on Software Development Environments Steering Committee, 1989-1993.

Member-At-Large, ACM SIGSOFT, 1990-93

Member, Software Engineering Editorial Board of the Journal of Computer and Software Engineering.

Member of the Executive Committee, IEEE Technical Committee on Software Engineering.

NSF Research Initiation Awards Panel, Software Engineering Proposals.

### *Conference Leadership*

Chair, ICSE 2011 Most Influential Paper Award from ICSE 2001, May 2011

Program Chair, International Conference on COTS-Based Software Systems (ICCBSS 2009)

Chair, ICSE 2009 Most Influential Paper Award from ICSE 1999, May 2009

Co-Chair, Combined Workshop on Sharing Architecture Knowledge and Architecture Rationale and Design Intent, 29th International Conference on Software Engineering, May 2007

Co-Chair, 2nd International Workshop on Incorporating COTS Software into Software Systems, 29th International Conference on Software Engineering, May 2007

Co-Chair, CASCON 2004 Workshop on Requirements/Architectures, October 2004.

Co-chair, International Workshop on Incorporating COTS-Software into Software Systems: Tools and Techniques (IWICSS), February 2004.

Chair, Panels, 2003 International Conference on Software Engineering, May 2003

Chair, Most Influential Paper from ICSE 1993, 2003 International Conference on Software Engineering, May 2003

Co-Chair, Industrial Track, 2001 International Conference on Software Engineering, May 2001

Co-Program Chair, Software Process Improvement 2000, Gothenberg Sweden, December 2000.

Co-Program Chair, Software Process Improvement 1999, Barcelona, December 1999

Organizing Committee, 1999 Workshop on Principles of Software Evolution, Fukuoka Japan, July 1999

Publicity Chair, 1999 International Conference on Software Engineering, May 1999

Co-Program Chair, 1st Working IFIP Conference on Software Architecture, San Antonio, February 1999

Co-Chair, 3rd International Software Architecture Workshop, Orlando FL, October 1998

Chair, 5th International Conference on Software Process, Lisle IL, June 1998

Organizing Committee, ICSE98 Workshop on Principles of Software Evolution, Kyoto Japan, April 1998

Workshop Co-chair, International Software Engineering Conference '98, Kyoto Japan, April 1998.

Organizing and Conference Chair, 17th International Conference on Software Engineering, Seattle WA, April-May 1995.

Program Chair, 3rd International Conference on the Software Process, Washington DC, October 1994.

Tutorial Chair, SIGSOFT'93 - Foundations of Software Engineering, Los Angeles CA, December 1993.

Workshop Chair, 15th International Conference on Software Engineering, Baltimore MD, May 1993.

Tutorial Chair, 14th International Conference on Software Engineering, Melbourne, Australia, May 1992.

Chair, 13th-17th International Conference on Software Engineering PC subcommittee for Best Papers from ICSE2 - ICSE7.

Area Chair, 13th International Conference on Software Engineering, Austin TX, May 1991.

Conference Chair, SIGSOFT'90 - 4th Symposium on Software Development Environments, Irvine CA, 3-5 December 1990.

Co-Program Chair, Symposium on Environments and Tools for Ada (SETA1), Los Angeles CA, May 1990. (The merger of the Future APSE Workshop and the 4th International Ada Applications and Environments Conference)

Workshop Chair, 5th International Software Process Workshop: Experience With Software Process Models, Kennebunkport ME, 10-13 October 1989.

Program Chair, 3rd International Ada Applications and Environments Conference, Manchester NH, May 1988.

*Conference/Workshop Program Committee Member*

WICSA 2011 – Program Committee of the 9<sup>th</sup> Working Conference on Software Architecture, June 2011

ICSE 2011 NIER Track – Program Committee of the New Ideas and Emerging Research Track for the International Conference on Software Engineering, May 2011.

MSR 2011 – Program Committee of Workshop on Mining Software Repositories 2009, May 2011

ICSSP 2011 – Program Committee of International Conference on Software and Systems Processes 2010, May 2011

ECSCA 2010 – Program Committee of 4<sup>th</sup> European Conference on Software Architecture 2010, August 2010

ICSE 2010 MIP Committee – Committee for the Most Influential Paper Award from ICSE 2000.

ICSP 2010 – Program Committee of International Conference on Software Process 2010, May 2010

WICSA/ECSCA 2009 – 8<sup>th</sup> Working Conference on Software Architecture/3<sup>rd</sup> European Conference on Software Architecture, September 2009

COMSWARE 2009 – Program Committee of 4th International Conference on Communication System Software and Middleware, June 2009

MSR 2009 – Program Committee of Workshop on Mining Software Repositories 2009, May 2009

ICSP 2009 – Program Committee of International Conference on Software Process 2009, May 2009

ECSCA 2008 – European Conference on Software Architecture 2007, September 2008

MSR 2008 – Program Committee of Workshop on Mining Software Repositories 2008, May 2008

ICSP 2008 – International Conference on Software Process 2008, May 2008

Program Committee of International Workshop on Living with Uncertainty, November 2007

ECSA 2007 – European Conference on Software Architecture 2007, September 2007

ICSP 2007 – International Conference on Software Process 2007, May 2007

ICSE 2007: MSR '07 – Workshop on Mining Software Repositories 2007, May 2007

ICCBSS 2006 – Sixth International Conference on COTS-Based Software Systems 2007, March 2007

WICSA6 – IFIP Working International Conference on Software Architecture 2007, January 2007

FSE 2006 – ACM SIGSOFT Foundations of Software Engineering 2006, November 2006

ICGSE 2006 – First International Conference on Global Software Engineering 2006, October 2006

EWSA 2006 – European Workshop on Software Architecture 2006, September 2006

ISESE 2006 – International Conference on Empirical Software Engineering 2006, September 2006

ICSE 2006 – Tutorial Committee: International Conference on Software Engineering 2006, May 2006

ICSE 2006: MSR '06 – Workshop on Mining Software Repositories 2006, May 2006

SPW/ProSim 2006 – Software Process Workshop/Workshop on Software Process Simulation and Modeling 2006, May 2006

WISE 2005 – Sixth International Conference on Web Information Systems 2005, November 2005

WICSA5 – The 5th IFIP Working International Conference on Software Architecture 2005, November 2005

ISESE 2005 – The 4th International Symposium on Empirical Software Engineering, November 2005

EWSA 2005 – European Workshop on Software Architecture, June 2005



ICSE 2005: WADS '05 – Workshop on Architecting Dependable Systems 2005, May 2005

ICSE 2005: MSR '05 – Workshop on Mining Software Repositories 2005, May 2005

ProSim'05 – The 5th International Workshop on Software Process Simulation and Modeling, May 2005

Beijing Software Process Workshop 2005, May 2005

IWICSS 2005 – International Workshop on Incorporating COTS into Software Systems 2005, January 2005

WICSA4 – 4th Working IFIP Conference on Software Architecture, 2004, June 2004

EWSA '04 – European Workshop on Software Architecture 2004, May 2004

ICSE 2004: WADS '04 – Workshop on Architecting Dependable Systems 2004, May/June 2004

ICSE 2004: MSR '04 – Workshop on Mining Software Repositories 2004, May 2004

ProSim'04 – The 5th International Workshop on Software Process Simulation and Modeling, May 2004

Fifth International Workshop on Product Family Engineering, November 2003

International Conference on Quality Software 2003, September 2003

9th European Workshop on Software Process Technology, September 2003

Fifth International Workshop on Product Family Engineering, November 2003

Third International Conference for Quality Software, September 2003

International Software Process Workshop 2003, May 2003

ICSE2003: WADS '03 – Architecting Dependable Systems, May 2003

2002 International Symposium on Empirical Software Engineering, October 2002

International Conference on Software Maintenance, 2002, September 2002

3rd Working IFIP Conference on Software Architecture, WICSA3, August 2002

ProSim/ISPW2002, July 2002

International Conference on Software Engineering, 2002, May 2002  
ICSE2002: WADS '02 - Architecting Dependable Systems, May 2002  
4th Product Line Architecture Workshop, October 2001  
European Software Engineering Conference and Foundations of Software Engineering 2001, September 2001  
Second Working IFIP/IEEE Conference on Software Architecture (WICSA2), 2000/2001  
International Conference on Software Engineering, 2001, May 2001  
ICSE2001 Workshop: From Software Requirements to Architectures – STRAW 2001,  
IFIP/IEEE International Workshop on Distributed Systems: Operations and Management 2000 (ISOM2000), Austin TX, December 2000  
Foundations of Software Engineering 2000, November 2000  
Middleware Symposium, Principles of Distributed Computing Conference, July 2000.  
Feast Workshop, July 2000  
4th International Software Architecture Workshop, ICSE2000, June 2000  
Workshop on Multi-Dimensional Separation of Concerns in Software Engineering, ICSE2000, June 2000  
3rd Product Line Architecture Workshop, February 2000  
2nd International Workshop on Principles of Software Evolution, Japan, July 1999  
1999 Workshop on Engineering Distributed Objects, ICSE99, May 1999  
Coordination 1999, Amsterdam, April 1999.  
5th International Conference on Software Reuse, June 1998  
International Software Engineering Conference '98, April 1998  
Coordination '97, September 1997.  
International Software Engineering Conference '97, May 1997.  
4th International Conference on the Software Process, December 1996.  
4th ACM SIGSOFT Conference on the Foundations of Software Engineering, October 1996.  
10th International Software Process Workshop, June 1996.

6th Empirical Studies Workshop, January 1996.

Software Architecture workshop (ISAW1), ICSE17, April 1995.

9th International Software Process Workshop, October 1994.

16th International Conference on Software Engineering, May 1994.

7th International Workshop on Software Specification and Design, December 1993.

15th International Conference on Software Engineering, May 1993.

2nd International Conference on the Software Process, Berlin, Germany, February 1993.

International Workshop on Hardware-Software Codesign, Estes Park, CO, September 1992.

1st International Conference on the Software Process, Redondo Beach, CA, October 1991.

6th International Workshop on Software Specification and Design, Lake Como, Italy, October 1991.

4th Symposium on Testing, Analysis, and Verification, Victoria BC, October 1991.

13th International Conference on Software Engineering, Austin TX, May 1991

Software Process Symposium, Washington DC, September 1990.

12th International Conference on Software Engineering, Nice, France, March 1990.

2nd Symposium on Configuration Management, Princeton NJ, October 1989.

11th International Conference on Software Engineering, Pittsburgh PA, May 1989.

5th International Workshop on Software Specification and Design, Pittsburgh PA, May 1989.

4th International Software Process Workshop, Moretonhampstead, Devon, England, May 1988.

2<sup>nd</sup> International Ada Applications and Environments Conference, Miami FL, April 1986.

### *Professional Membership*

Institute for Electrical and Electronic Engineers (IEEE) 1977-Present  
IEEE Computer Society, 1977-Present

IEEE Computer Society Technical Council on Software Engineering (TCSE)

Association for Computing Machinery (ACM), 1977-Present

ACM Special Interest Groups on Operating Systems (SIGOPS), Programming Languages (SIGPLAN) and Software Engineering (SIGSOFT), 1977-Present

## Grants and Contracts

Texas Office of Attorney General, Child Services: Independent Verification & Validation for T2. \$2,100,000, 2011-2019.

NSF CISE SRS: Studying Design Intent for Software Evolution and Maintenance, \$454,000, 2008-2011

DARPA/BAE: The Bootstrapped Learning Project, \$668,000, 2007-2010.

NASA: Creating Architectural Models for Constellation Training Facility Simulations, \$465,000, 2007-2010

NSF CISE REU: Extension to "SOD Collaborative Research: Constraint-Based Architecture Evaluation", \$12,000, 2006-2007

NSF CISE: "SOD Collaborative Research: Constraint-Based Architecture Evaluation", \$1,000,000, 2005-2010

NSF CISE REU: Extension to "Transforming Requirements Specifications into Architectural Prescriptions", \$6,000, 2005-2006

NSF CISE REU: Extension to "Transforming Requirements Specifications into Architectural Prescriptions", \$12,060, 2004-2005

NSF CISE: "Transforming Requirements Specifications into Architectural Prescriptions", \$300,000, 2003-2006

Microsoft, Software Packages grant, \$12,000, September 2002

Intel, Equipment Grant, \$18,000, September 2002

Tivoli Systems Research Associate Grant, "Transforming Goal-Directed Requirements into Architectural Prescriptions", \$30,000, 2000-2001

[Note: All my work as Pegasus Systems was contract work. I have included here only those contracts which were research related contracts]

Engineering and Physical Sciences Research Council, UK. FEAST/2 (Feedback, Evolution and Software Technology). GR/M44101: 234,752 UKPounds (\$387,350) for April 1999 - March 2001. (Core Research Team: Prof. MM Lehman, Imperial College, Prof W Turski, Warsaw University, DE Perry, Bell Laboratories).

Engineering and Physical Sciences Research Council, UK. Senior Visiting Fellows. GR/L96561 for 11,118 UKPounds (\$18,350) for 1998-1999 (Prof W. Turski, Warsaw University, DE Perry, Bell Laboratories).

Engineering and Physical Sciences Research Council, UK. Senior Visiting Fellows. GR/L07437 for 11,88 UKPounds (\$19,600) for 1996-1997 (Prof W. Turski, Warsaw University, DE Perry, Bell Laboratories).

Engineering and Physical Sciences Research Council, UK. FEAST/1 (Feedback, Evolution and Software Technology). GR/K86008: 239,262 UKPounds (\$394,800) for October 1996 - October 1998. (Core Research Team: Prof. MM Lehman, Imperial College, Prof W Turski, Warsaw University, DE Perry, Bell Laboratories).

Computer System Integration and Operations Division, CENTACS, CORADCOM, US Army, Fort Monmouth, NJ. Measurement and Analysis of Distributed Systems. \$9300, 1981 (Principle Investigator).

Research Group, Computer Research Division, Army Tactical Computer Technology Laboratory, CORADCOM, Fort Monmouth, NJ. 1) Advanced programming and Ada, 2) Continuous operation of distributed systems, and 3) Language oriented software development environments. \$124,000, September 1979 - October 1981. (Principle Investigator).

Software Engineering Division, CENTACS, CORADCOM, Ft. Monmouth, NJ. Review and Evaluation of Ada. \$21,900, 1978-1979 (Principle Investigator).

USAECOM PMARTADS - CENTACS, Software Engineering Division, Fort Monmouth. Convert prompting system to commercial database ADATABASE. Create model for maintenance documentation. \$17,600, 1977 (Principle Investigator).

USAECOM Comm/ADP Lab, Advanced System Design and Development Division. Intelligent Communications Terminal. \$27,000, 1976 (Principle Investigator for the system software).

USAECOM Comm/ADP Lab, Advanced System Design and Development Division. Intelligent prompting system. \$15,500, 1975 (Principle Investigator).

## Publications

### *Books and Book Chapters*

1. Dewayne E Perry. "Where Do Most Software Flaws Come From?" Chapter 25, pages 453-494. In *Making Software*, Adam Oram and Greg Wilson, Editors, O'Reilly Media, October 2010.
2. Alexander Egyed, Hausi Mueller, Dewayne E. Perry, Dennis B. Smith, Scott Tilley. Proceedings of the 2<sup>nd</sup> International Workshop on Incorporating COTS Software into Software Systems (WICSS 2007). 29<sup>th</sup> International Conference on Software Engineering, Minneapolis MN, May 2007.
3. Paris Avgeriou, Paul S. Grisham, Philippe Kruchten, Patricia Lago and Dewayne E. Perry. Proceedings of the 2<sup>nd</sup> Intl. Workshop on SHaring and Reusing architectural Knowledge - Architecture, rationale, and Design Intent (SHARK/ADI 2007), 29<sup>th</sup> International Conference on Software Engineering, Minneapolis MN, May 2007.
4. Matthew J. Hawthorne and Dewayne E. Perry, "Software Engineering Education in the Era of Outsourcing, Distributed Development, and Open Source Software: Challenges and Opportunities". Paola Inverardi and Mehdi Jazayeri, Editors. *Software Engineering Education in the Modern Age: Challenges and Possibilities*, Post-Proceedings of ICSE '05 Education and Training Track Springer Verlag, 2006, Lecture Notes in Computer Science, LNCS 4309
5. *Software Evolution and Feedback: Theory and Practice*. Nazim H. Madhavji, Juan Fernandez-Ramil, Dewayne Perry, Editors. West Sussex, UK: John Wiley & Sons, Ltd, 2006, June 2006
6. Dewayne E. Perry. "Chapter 2: A Nontraditional View of the Dimensions of Software Evolution". *Software Evolution and Feedback: Theory and Practice*. Nazim H. Madhavji, Juan Fernandez-Ramil, Dewayne Perry, Editors. West Sussex, UK: John Wiley & Sons, Ltd, 2006, June 2006. pp 41-52.
7. Meir M. Lehman, Dewayne E Perry and Wladyslaw Turski. "Chapter 17: Difficulties with Feedback Control in Software Processes". *Software Evolution and Feedback: Theory and Practice*. Nazim H. Madhavji, Juan Fernandez-Ramil, Dewayne Perry, Editors. West Sussex, UK: John Wiley & Sons, Ltd, 2006, June 2006. pp 363-376
8. Alexander Egyed, Hausi A Mueller, and Dewayne E Perry. Guest Editors, Special Issue: COTS Integration, *IEEE Software* 22:4 (July/August 2005)

9. Alexander Egyed and Dewayne E. Perry, Proceedings of the 1<sup>st</sup> International Workshop on Incorporating COTS Software into Software Systems (WICSS 2004). 3rd International Conference on COTS-Based Software Systems (ICCBSS 2004), Redondo Beach, February 2004.
10. Dewayne E Perry. Foreword. Architecting Dependable Systems. Lemos, Gacek and Romanovksy, Eds. Springer Verlag, LNCS 2677, 2003, pp v-vi.
11. Paul Clements, Alexander Ran and Dewayne Perry, Proceedings of the 1st Working IFIP Conference on Software Architecture (WICSA1), February 1999.
12. Jeff N. Magee and Dewayne E. Perry, Proceedings of the 3rd International Software Architecture Workshop, ACM SIGSOFT, November 1998. ACM Press, 1998.
13. Barry Boehm, Mark I. Kellner and Dewayne E. Perry, Proceedings of the 10th International Workshop on Software Process, IEEE Computer Society, August 1998.
14. Robert Balzer, Leon J. Osterweil and Dewayne E. Perry, Proceedings of the 5th International Conference on Software Process, International Software Process Association, June 1998
15. Dewayne E. Perry, Nancy Staudenmayer and Larry Votta, "Understanding and Improving Time Usage in Software Development", Trends in Software: Software Process, Fuggetta and Wolf, Editors, Volume 5, John Wiley & Sons: 1996.
16. Dewayne Perry, Ross Jeffery and David Notkin, Editors, Proceedings of the 17th International Conference on Software Engineering, The Association for Computing Machinery, April 1995.
17. Dewayne E. Perry, Editor. Proceedings of the Third International Conference on the Software Process: Applying the Software Process, IEEE Computer Society Press, October 1994.
18. Dewayne E. Perry, Editor. Proceedings of the Fifth International Software Process Workshop, Kennebunkport ME, October 1989. IEEE Computer Society Press, 1990.
19. Derek Morris and Dewayne E. Perry, editors. Proceedings of the 3rd International Ada Applications and Environments Conference, Manchester NH, May 1988. IEEE Computer Society Press, 1989.
20. A. Nico Habermann and Dewayne E. Perry. Ada For Experienced Programmers. Reading, Mass: Addison-Wesley, May 1983.

21. Dewayne E. Perry. "Low Level Language Features". Using Selected Features of Ada: A Collection of Papers, CENTACS, US Army Communication-Electronics Command, 1981. Reprinted in *The Ada Programming Language: A Tutorial*, edited by Sabina H. Saib and Robert E. Fritz. IEEE Computer Society Press, 1983. pp. 327-335.

### *Refereed Journal Papers*

22. Dewayne E Perry. "Future of Mining Software Repositories: A Roundtable – Evaluate Analysis and Testing Approaches", *IEEE Software*, 26:1 (January/February 2009), 67-70 (70).
23. Avgeriou, P, Kruchten, P., Lago, P., Grisham, P., Perry, D.. "Architectural knowledge and rationale: issues, trends, challenges. Report of the Second ACM Workshop on SHARing and Reusing architectural Knowledge - Architecture, rationale and Design Intent (SHARK/ADI)". *SIGSOFT Software Engineering Notes*, Vol. 32(4), Jul. 2007
24. Paul S Grisham, Herb Krasner, and Dewayne E. Perry. "Data Engineering Education with Real-World Projects", *SIGCSE Bulletin*, 38:2 (June 2006), pp 64-69., June 2006
25. Alexander Egyed, Hausi A Mueller, and Dewayne E Perry. "Integrating COTS into the Development Process", Special Issue: COTS Integration, *IEEE Software* 22:4 (July/August 2005), 16-18.
26. Ranjith Purushothaman and Dewayne E Perry, "Towards Understanding the Rhetoric of Small Source Code Changes", Special Issue on Mining Software Repositories, *IEEE Transactions on Software Engineering TSE* 31-6 (June 2005)
27. Marek Leszak, Dewayne E Perry and Dieter Stoll "Classification and Evaluation of Defects in a Project Retrospective", *Journal of Systems and Software*, 61 (2002), 173-187.
28. J.M. Perpich, D.E. Perry, A.A. Porter, L.G. Votta and M.W. Wade. "Studies of Code Inspection Interval Reduction in Large-Scale Software Development", *IEEE Transactions on Software Engineering*, 28:7 (July 2002), 684-694.
29. Dewayne E. Perry, Harvey P. Siy and Lawrence G. Votta. "Parallel Changes in Large Scale Software Development: An Observational Case Study" *Transactions on Software Engineering and Methodology*, 10:3 (July 2001), 308-337.
30. D. E. Perry, A. Romanovsky and A. Tripathi. "Guest Editor's Introduction - Current Trends in Exception Handling - Part II", *IEEE Transactions on Software Engineering* 26:9 (October 2000)



31. D. E. Perry, A. Romanovsky and A. Tripathi. "Guest Editor's Introduction - Current Trends in Exception Handling", IEEE Transactions on Software Engineering 26:9 (September 2000)
32. P. T. Devanbu, D. E. Perry and J. S. Poulin. "Guest Editor's Introduction - Next Generation Software Reuse", IEEE Transactions on Software Engineering 26:5 (May 2000)
33. Ashok Dandekar, Dewayne E. Perry and Lawrence G. Votta, "A Study in Process Simplification", Software Process: Improvement & Practice, 3:2 (June 1997).
34. Ashok Dandekar and Dewayne E. Perry, "Barriers to Effective Process Architecture" Software Process: Practice and Improvement, 2.1, January 1996.
35. David Garlan and Dewayne E. Perry, "Introduction to the Special Issue on Software Architecture", IEEE Transactions on Software Engineering, 21:4 (April 1995).
36. Dewayne E. Perry and Lawrence G. Votta, "Prototyping a Process Monitoring Experiment", IEEE Transactions on Software Engineering, 20:10, October 1994.
37. Dewayne E. Perry, Nancy Staudenmayer and Lawrence G. Votta, "People, Organizations, and Process Improvement", IEEE Software, July 1994.
38. Dewayne E. Perry and Gail E. Kaiser. "Models of Software Development Environments". IEEE Transactions on Software Engineering, 17:3 (March 1991).
39. Dewayne E. Perry and Gail E. Kaiser, "Making Progress in Cooperative Transaction Models", IEEE Bulletin on Data Engineering, 14:1 (March 1991).
40. Dewayne E. Perry and Gail E. Kaiser. "Adequate Testing and Object-Oriented Programming" Journal of Object-Oriented Programming, January-February 1990.
41. Dewayne E. Perry. "Guest Editorial — Selected Papers from the 3rd Ada Applications and Environments Conference". In ACM Transactions on Programming Languages and Systems, October 1990.

*Refereed Conference and Workshop Papers*

42. Cristina Roda, Elena Navarro, Carlos E. Cuesta and Dewayne E. Perry. "Una Evaluación Empírica sobre Técnicas de Visualización para el Conocimiento Arquitectónico". XVI

Jornadas de Ingeniería del Software y Bases de Datos (JISDB – International Conference on Software Engineering and Databases), September 2011.

43. Elena Navarro, Carlos E. Cuesta, Dewayne E. Perry and Cristina Roda, “Using Model Transformation Techniques for the Superimposition of Architectural Styles”, European Conference on Software Architecture (ECSA), September 2011.
44. Dewayne E Perry. “A Unifying Theoretical Foundation for Software Engineering”, 20<sup>th</sup> International Conference on Software Engineering and Data Engineering (SEDE), June 2011. (Keynote Paper)
45. Jason Tsay, Hyrum Wright, and Dewayne E Perry. “Experiences Mining Open Source Release Histories”, International Conference on Software and System Processes (ICSSP), May 2011.
46. Robert Grant, David Deangelis, Dan Luu, Dewayne Perry and Kathy Ryall, “Toward Evaluating Human-Instructable Software Agents”, IASDIS International Conference Interfaces and Human Computer Interaction (IHCI), July 2011.
47. Robert Grant, David Deangelis, Dan Luu, Dewayne Perry and Kathy Ryall, “Evaluating Instructable Software Agents Using Human-Generated Benchmarks”, EASE 2011 – Evaluation and Assessment in Software Engineering, Durham UK, April 2011
48. Meiru Che and Dewayne E Perry. "Scenario-Based Architectural Design Decisions Documentation and Evolution", 18th IEEE International Conference and Workshops on Engineering of Computer-Based Systems, Las Vegas NV, April 2011. (Nominated for Best Student Paper).
49. Danhua Shao, Divya Gopinath, Sarfraz Khurshid and Dewayne E. Perry, “Optimizing Incremental Scope-bounded Checking with Data-flow Analysis”, 21<sup>st</sup> IEEE International Symposium on Software Reliability Engineering, San Jose CA, November 2010.
50. Hyrum K Wright, Miryung Kim, and Dewayne E Perry. “Validity Concerns in Software Engineering Research”, 2010 FSE/SDP Workshop on the Future of Software Engineering Research, Foundations of Software Engineering (FSE 2010), Sante Fe NM, November 2010
51. Robert Watson, Sutirtha Bhattacharya, Dewayne E. Perry, "Statically Defined Dynamic Architecture Evolution", Proceedings of the 1<sup>st</sup> International Workshop on Automated

Configuration and Tailoring of Applications (ACOTA 2010),  
collocated with ASE 2010, Antwerp BE, September 2010

52. Danhua Shao, Divya Gopinath, Sarfraz Khurshid and Dewayne E. Perry, "A Case for Using Data-Flow Analysis to Optimize Incremental Scope-Bounded Checking", Conference on Abstract State Machines, Alloy, B and Z, (ABZ 2010), Oxford CA, February 2010, Springer Verlag, LNCS 5977, pp 292-293, February 2010
53. Paul S Grisham and Dewayne E. Perry, "Design Knowledge Creation and Analysis - Position Paper", Workshop on Studying Professional Software Design, Feb 2010, Irvine CA
54. Svetoslav Ganov, Chip Killmar, Sarfraz Khurshid, Dewayne E. Perry. "Event Listener Analysis and Symbolic Execution for Testing GUI Applications", International Conference on Formal Engineering Methods ICFEM 09, December 2009.
55. Danhua Shao, Sarfraz Khurshid, and Dewayne E. Perry. "An incremental approach to scope-bounded checking using a lightweight formal method", 16th International Symposium on Formal Methods, November 2009
56. Elena Navarro, Carlos E. Cuesta, and Dewayne E. Perry. "Weaving a Network of Architectural Knowledge", Joint Working IEEE/IFIP Conference on Software Architecture 2009 & European Conference on Software Architecture 2009, September 2009.
57. D. Shao, S. Khurshid, and D. E. Perry. "SCA: A semantic conflict analyzer for parallel changes". In Proc. 7th joint meeting of the European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering, Amsterdam, the Netherlands, 2 pages. Demonstrations track paper, August 2009
58. Hyrum K. Wright and Dewayne E. Perry "Subversion 1.5: A Case Study in Open Source Release Mismanagement - Poster", The 5th International Conference on Open Source Systems (OSS 2009), Skovde Sweden, June 2009
59. Hyrum Wright and Dewayne E Perry. "Subversion 1.5: A Case Study in Open Source Release Mismanagement", Second International Workshop on Emerging Trends in Free/Libre/Open Source Software Research and Development (FLOSS09). International Conference on Software Engineering (ICSE) 2009, Vancouver CA, May 2009
60. Danhua Shao, Sarfraz Khurshid, and Dewayne E. Perry. "Semantic Impact and Faults in Source Code Changes: An

- Empirical Study”, Australian Software Engineering Conference (ASWEC) 2009, Gold Coast AU, April 2009. Best Paper Award.
61. Danhua Shao, Sarfraz Khurshid, and Dewayne E. Perry. “Integrating semantic interference detection into version management systems”, 2nd Workshop on Accountability and Traceability in Global Software Engineering (ATGSE2008), Co-located with the 15th Asia-Pacific Software Engineering Conference (APSEC'08) Beijing China, December 2008
  62. Hyrum K. Wright and Dewayne E. Perry. “Release Engineering Processes in Open Source Projects”, Poster Presentation, ACM SIGSOFT Foundations of Software Engineering (FSE) 2008, Atlanta GA, November 2008.
  63. Svetoslav R. Ganov, Chip Killmar, Sarfraz Khurshid, Dewayne E. Perry "Test generation for graphical user interfaces based on symbolic execution". AST '08: Proceedings of the 3rd international workshop on Automation of software test, International Conference on Software Engineering, May 2008
  64. Dewayne E. Perry "Large" abstractions for software engineering ROA '08: Proceedings of the 2nd international workshop on The role of abstraction in software engineering, International Conference on Software Engineering, May 2008
  65. Christine Julien and Dewayne E Perry. "Composable context-aware architectural connectors". SAM 08: Proceedings of the international workshop on software architectures and mobility, International Conference on Software Engineering, May 2008
  66. Soon-Hyeok Choi, Dewayne E. Perry, Scott Nettles. "A Software Architecture for Cross-Layer Wireless Network Adaptations". Working International Conference on Software Architecture (WICSA 2008), February 2008
  67. Svetoslav Ganov, Enos Jones, Angela Dalton, Dewayne E Perry "BUILDing Dynamic Mobile User Interfaces - Poster", HotMobile, Napa CA, February 2008
  68. Paul S Grisham, Hajimu Iida, and Dewayne E. Perry. "Improving Design Intent Research for Software Maintenance", ATGSE 07: Accountability and Traceability in Global Software Engineering, December 2007
  69. Paul S Grisham, Hajimu Iida, and Dewayne E. Perry. "Context Analysis of Historical Process Data with the Project Replayer", ATGSE 07: Accountability and Traceability in Global Software Engineering, December 2007

70. D. Shao, S. Khurshid, and D. Perry. "Evaluation of Semantic Interference Detection in Parallel Changes: an Exploratory Experiment". 23rd International Conference on Software Maintenance (ICSM 2007). Paris, France. Oct 2007
71. Mark Grechanik, Kathryn S. McKinley, Dewayne E. Perry. "Recovering and using use-case-diagram-to-source-code traceability links". European Software Engineering Software Engineering Conference/Foundations of Software Engineering (ESEC/SIGSOFT FSE) 2007, September 2007
72. Danhua Shao, Sarfraz Khurshid, Dewayne E. Perry "A Case for White-box Testing Using Declarative Specifications Poster Abstract." TAICPART-MUTATION '07: Proceedings of the Testing: Academic and Industrial Conference Practice and Research Techniques, September 2007
73. Svetoslav Ganov, Sarfraz Khurshid, Dewayne Perry "A Case for GUI Testing Using Symbolic Execution Poster Abstract" TAICPART-MUTATION '07: Proceedings of the Testing: Academic and Industrial Conference Practice and Research Techniques, September 2007
74. Rodion Podorozhny, Sarfraz Khurshid, Dewayne Perry, and Xiaoqin Zhang. "Verification of multi-agent negotiations using the Alloy Analyzer", IFM 2007: Integrated Formal Methods, Oxford UK, July 2007
75. Paris Avgeriou, Philippe Kruchten, Patricia Lago, Paul Grisham and Dewayne Perry. "Sharing and Reusing Architectural Knowledge - Architecture, Rationale, and Design Intent", International Conference on Software Engineering 2007, May 2007, Minneapolis MN.
76. Alexander Egyed, Hausi Muller, Dewayne E Perry, Dennis B Smith and Scott Tilley. "Summary of the 2<sup>nd</sup> International Workshop on Incorporating COTS Software into Software Systems: Tools and Techniques", International Conference on Software Engineering 2007, May 2007, Minneapolis MN
77. Paul S. Grisham, Matthew J. Hawthorne and Dewayne E Perry, "Architecture and Design Intent: An Experience Report", Workshop on Sharing Architecture Knowledge (SHARK) and Architecture Design Intent (ADI) 2007, International Conference on Software Engineering 2007, May 2007, Minneapolis MN
78. Charles L. Chen, Danhua Shao and Dewayne E Perry, "An Exploratory Case Study Using CBSP and Archium" Workshop on Sharing Architecture Knowledge (SHARK) and Architecture

Design Intent (ADI) 2007, International Conference on Software Engineering 2007, May 2007, Minneapolis MN

79. Sutirtha Bhattacharya and Dewayne E. Perry. "Predicting Emergent Properties of Component Based Systems", ICCBSS 2006: Sixth International Conference on COTS-Based Software Systems 2007, March 2007.
80. Sutirtha Bhattacharya and Dewayne E. Perry "Architecture Assessment Model for System Evolution", WICSA6: IFIP Working International Conference on Software Architecture 2007, January 2007
81. Charles L. Chen, Paul S. Grisham, Sarfraz Khurshid and Dewayne E. Perry. "Design and Validation of a General Security Model with the Alloy Analyzer", FSE 2006: ACM SIGSOFT Foundations of Software Engineering 2006, Portland OR, November 2006
82. Vidya Lakshminarayanan, WenQian Liu, Charles L Chen, Steve Easterbrook, Dewayne E Perry. "Software Architects in Practice: Handling Requirements", CASCON 2006: IBM CAS Conference, Toronto Canada, October 2006
83. Michael Jester, Herb Krasner, and Dewayne E. Perry. "Software Process Definition & Improvement: An Industry Report", 32nd Euromicro Conference on Software Engineering and Advanced Applications – Software Process and Product Improvement (SEAA-SPPI 2006), Cavtat/Dubrovnik, Croatia. August 2006 , August 2006
84. Dewayne E. Perry, Susan Elliott Sim, and Steve Easterbrook. "Case Studies for Software Engineers", Proceedings of the 28th International Conference on Software Engineering & Co-located Workshops, 20-28 May, 2006, Shanghai, China, May 2006
85. Danhua Shao, Sarfraz Khurshid and Dewayne E. Perry. "Mining Change and Version Management Histories to Evaluate an Analysis Tool: Extended Abstract", Mid-Atlantic Student Workshop on Programming Languages and Systems, April 2006. New Brunswick NJ., April 2006
86. G. Lorenzo Thione and Dewayne E. Perry. "Parallel Changes: Detecting Semantic Interferences". The 29<sup>th</sup> Annual International Computer Software and Applications Conference (COMPSAC 2005), Edinburgh, Scotland, July 2005
87. Mark Grechanik, Dewayne E. Perry, and Don Batory. "Using AOP to Monitor and Administer Software for Grid Computing Environments", The 29th Annual International Computer

Software and Applications Conference (COMPSAC 2005),  
Edinburgh, Scotland, July 2005

88. Divya Jani, Damien Vanderveken and Dewayne E Perry. "Deriving Architectural Specifications from KAOS Specifications: A Research Case Study", European Workshop on Software Architecture 2005, Pisa Italy, June 2005.
89. Rodion M. Podorozhny, Dewayne E. Perry and Leon J. Osterweil. "Automatically Analyzing Software Processes: Experience Report", Software Process Workshop 2005, Beijing China, May 2005.
90. Matthew J. Hawthorne and Dewayne E. Perry. "Software Engineering Education in the Era of Outsourcing, Distributed Development, and Open Source Software: Challenges and Opportunities", International Conference on Software Engineering (ICSE2005), St. Louis MO, May 2005.
91. Paul S. Grisham and Dewayne E Perry. "Customer Relationships and Agile Software Development". Workshop on Human and Social Factors of Software Engineering (HSSE 2005), International Conference on Software Engineering 2005, St Louis MO, May 2005
92. WenQian Liu, Charles L. Chen, Vidya Lakshminarayanan, Dewayne E. Perry. "A Design for Evidence-based Software Architecture Research". Workshop on Realizing Evidence-Based Software Engineering (REBSE'2005), International Conference on Software Engineering 2005, St Louis MO, May 2005.
93. Matthew J. Hawthorne and Dewayne E. Perry. "Exploiting Architectural Prescriptions for Self-Managing, Self- Adaptive Systems: A Position Paper" ACM SIGSOFT Workshop on Self-Managed Systems (WOSS'04), at ACM SIGSOFT Foundations of Software Engineering 2004, Newport Beach CA, November 2004.
94. Matthew J. Hawthorne and Dewayne E. Perry. "Applying Design Diversity to Aspects of System Architectures and Deployment Configurations to Enhance System Dependability." Workshop on Architecting Dependable Systems 2004, 2004 International Conference on Dependable Systems and Networks. Florence IT June 2004. Supplemental Volume, pp 312-316.
95. Dewayne E. Perry, Susan Elliot Sim and Steve Easterbrook. "Case Studies for Software Engineers." International Conference on Software Engineering 2004 (ICSE 2004), May 2004, Edinburgh, Scotland. Pp 736-738.

96. Mark Grechanik, Dewayne E. Perry and Don Batory. "Design of Large-Scale Polylingual Systems". International Conference on Software Engineering 2004 (ICSE 2004), May 2004, Edinburgh, Scotland. Pp 357-366.
97. Ranjith Purushothaman and Dewayne E Perry, "Towards Understanding the Rhetoric of Small Changes - Extended Abstract" International Workshop on Mining Software Repositories (MSR 2004), International Conference on Software Engineering 2004 (ICSE 2004), May 2004, Edinburgh, Scotland. pp 90-94.
98. Mark Grechanik and Dewayne E. Perry. "Analyzing Software Development as a Noncooperative Game". The 6th International Workshop on Economics-Driven Software Engineering Research (EDSER-6), International Conference on Software Engineering 2004 (ICSE 2004), May 2004, Edinburgh, Scotland.
99. Mark Grechanik and Dewayne E. Perry. "Secure Deployment of Components". 2nd International Conference on Component Deployment 2004. May 2004, Edinburgh, Scotland. Lecture Notes in Computer Science, Springer-Verlag. pp 159-174.
100. Mark Grechanik, Dewayne E. Perry and Don Batory. "Reengineering Large-Scale Polylingual Systems - Extended Abstract". International Workshop on Integrating COTS into Software Systems 2004 (IWICCS 2004), February 2004, Redondo Beach CA. pp 22-32.
101. Manuel Brandozzi and Dewayne E Perry. From Goal-Oriented Requirements to Architectural Prescriptions: The Preskriptor Process. International Workshop From Software Requirements to Architectures, May 2003, pp 107-113.
102. Rodion M Podorozhny, Dewayne E Perry, and Leon J Osterweil. Artifact-based functional comparison of software processes. 4th International Workshop on Software Process Simulation and Modeling, May 2003, pp V.29.1-10
103. Mark Grechanik, Don Batory and Dewayne E. Perry, "Integrating and Reusing GUI-Driven Applications", International Conference on Software Reuse, Austin, Texas, April 2002.
104. Marcus Ciolkowski, Oliver Laitenberger, Dieter Rombach, Forrest Shull, and Dewayne Perry, "Software Inspections, Reviews & Walkthroughs", International Conference on Software Engineering 2002, Orlando FL, May 2002
105. Mark Grechanik, Dewayne E. Perry, and Don Batory, "An Approach to Evolving Database Dependent Systems",



International Workshop on Principles of Software Evolution,  
ICSE2002, Orlando FL, May 2002

106. Rodion M. Podorozhny and Dewayne E. Perry, "A Multi-Agent Framework for an Architecting Process", Proceedings of 1st International Workshop on Software Engineering for Large-Scale Multi-Agent Systems 2002, ICSE2002, Orlando FL, May 2002
107. Manuel Brandozzi and Dewayne E Perry, "Architectural Prescriptions for Dependable Systems", International Workshop on Architecting Dependable Systems, ICSE2002, Orlando FL, May 2002
108. Francois Coallier, Linda M. Northrop and Dewayne Perry "Invited Industry Presentations (IIP)" Proceedings of the 23rd International Conference on Software Engineering, Toronto Canada, 12-19 May 2001. pp 681-4.
109. Manuel Brandozzi and Dewayne E. Perry "Transforming Goal Oriented Requirement Specifications into Architectural Prescriptions" Workshop Proceedings: From Software Requirements to Architectures STRAW 2001, Castro and Kramer, Editors. pp 54-60.
110. Dewayne Perry, Adam Porter, Lawrence Votta. "Empirical Studies and Software Engineering: A Roadmap", The Future of Software Engineering - ICSE2000, Finkelstein, ed. June 2000.
111. Marek Leszak, Dewayne E. Perry and Dieter Stoll. "A Case in Root Cause Defect Analysis", International Conference on Software Engineering 2000, Limerick Ireland, June 2000.
112. Dewayne E. Perry. "A Product Line Architecture for a Network Product", ARES III: Software Architectures for Product Families 2000, Los Pamos, Gran Canaria, Spain, March 2000.
113. Grinter, R. E., Herbsleb, J. D., & Perry, D. E. "The Geography of Coordination: Dealing with Distance in R&D Work", Proceedings, GROUP '99, Phoenix, AZ, November 14-17, 1999
114. Dewayne E. Perry, Gurgit S. Gil and Lawrence G. Votta. "A Case Study of Successful Geographically Separated Teamwork" Software Process Improvement 1998 (SPI98), December 1998.
115. M.M. Lehman, D.E. Perry and J.F. Ramil. "Implications of Evolution Metrics on Software Maintenance". ICSM'98, November 1998.
116. M.M. Lehman, D.E. Perry and J.F. Ramil. "On Evidence Supporting the FEAST Hypothesis and the Laws of Software Evolution". Metrics'98, November 1998.

117. Nancy Staudenmayer, Todd Graves, J. Steve Marron, Audris Mockus, Dewayne Perry, Harvey Siy and Lawrence Votta, Adapting to a New Environment: How a Legacy Software Organization Copes with Volatility and Change, 5th International Product Development Management Conference, Como Italy, May 1998
118. Dewayne E. Perry, Harvey P. Siy and Lawrence G. Votta. "Parallel Changes in Large Scale Software Development: An Observational Case Study", 1998 International Software Engineering Conference (ICSE98), Kyoto Japan, April 1998.
119. Harvey P. Siy and Dewayne E. Perry. "Challenges in Evolving a Large Scale Software Product". Principles of Software Evolution Workshop. 1998 International Software Engineering Conference (ICSE98), Kyoto Japan, April 1998
120. Dewayne E. Perry. "Generic Descriptions for Product Line Architectures". ARES II Product Line Architecture Workshop, Los Palmos, Gran Canaria, Spain, February 1998.
121. Dewayne E. Perry. "Using Process Modeling for Process Understanding", Software Process Improvement 1997, Barcelona ES, December 1997.
122. MM Lehman, DE Perry, JCF Ramil, WM Turski and P Wernick. "Metrics and Laws of Software Evolution", Proc. Fourth International Symposium on Software Metrics, Metrics 97, Albuquerque, New Mexico, 5-7 Nov 97, pp 20-3.
123. Dewayne E. Perry and Lawrence G. Votta. "The Tale of Two Projects -- Abstract", European Software Engineering Conference/Foundations of Software Engineering Conference 1997, Zurich CH, September 1997.
124. Dewayne E. Perry. "Directions in Process Technology -- An Architectural Perspective", Workshop on Research Directions in Process Technology, Nancy France, July 1997.
125. Dewayne E. Perry. "Maintaining Consistent, Minimal Configurations", SCM7, at ICSE97, May 1997
126. J.M. Perpich, D.E. Perry, A.A. Porter, L.G. Votta and M.W. Wade. "Anywhere, Anytime Code Inspections: Using the Web to Remove Inspection Bottlenecks in Large-Scale Software Development". 1997 International Software Engineering Conference (ICSE97), Boston Mass, May 1997.
127. Ashok Dandekar, Dewayne E. Perry and Lawrence G. Votta, "A Study in Process Simplification", 4<sup>th</sup> International Conference on Software Process, December 1996, Brighton UK

128. Dewayne E. Perry, Adam Porter and Lawrence G. Votta, "Evaluating Workflow and Process Automation in Wide-Area Software Development" Software Process Technology, Fifth European Workshop -- EWSPT'96, Springer-Verlag, October 1996.
129. Dewayne E. Perry, "Practical Issues in Process Reuse", 10th International Software Process Workshop, France, June 1996.
130. Dewayne E. Perry, Adam Porter and Lawrence G. Votta, "Evaluating Workflow and Process Automation in Wide-Area Software Development" NSF Workshop on Workflow and Process Automation, May 1996.
131. David Carr and Ashok Dandekar and Dewayne E. Perry, "Experiments in Process Interface Descriptions, Visualizations and Analyses", Software Process Technology, Fourth European Workshop -- EWSPT'95, Springer-Verlag, April 1995.
132. Dewayne E. Perry, "System Compositions and Shared Dependencies", 6th Workshop on Software Configuration Management, ICSE18, Berlin Germany, March 1996.
133. Dewayne E. Perry, "Issues in Process Architecture", 9th International Software Process Workshop, Airlie VA, October 1994.
134. Dewayne E. Perry, "Enactment Control in Interact/Intermediate", in Software Process Technology, Third European Workshop, EWSPT'94, Brian C. Warboys, ed., Springer Verlag, February 1994
135. Dewayne E. Perry and Steven S. Popovich, "Inquire: Predicate Based Use and Reuse", Knowledge-Based Software Engineering Conference, Chicago IL, September 1993.
136. Mark G. Bradac, Dewayne E. Perry and Lawrence G. Votta. "Prototyping a Process Monitoring Experiment", Proceedings of the Fifteenth International Conference on Software Engineering, Baltimore, 1993. Chosen as one of best papers and will be published in the IEEE Transactions on Software Engineering in 1994.
137. Dewayne E. Perry. "Humans in the Process: Architectural Implications", Proceedings of the 8th International Software Process Workshop March 1993, Schloss Dagstuhl, Germany.
138. Dewayne E. Perry. "Policy-Directed Coordination and Cooperation", Proceedings of the 7th International Software Process Workshop, October 1991, Yountville CA.

139. Dewayne E. Perry. "Dimensions of Consistency in Source Versions and System Compositions — A Position Paper" Proceedings of the 3rd Workshop on Software Configuration Management Trondheim, Norway, June 1991.
140. Stephen S. Popovich, William M. Schell, and Dewayne E. Perry. "Experiences with an Environment Generation System", Proceedings of the 13th International Conference on Software Engineering, May 1991, Austin TX.
141. Dewayne E. Perry. "Policy and Product-Directed Process Instantiation" Proceedings of the 6th International Software Process Workshop", 28-31 October 1990, Hakodate, Japan.
142. Dewayne E. Perry. "The Logic of Propagation in The Inscape Environment". Proceedings of SIGSOFT '89: Testing, Analysis and Verification Symposium, Key West FL, December 1989.
143. Gail E. Kaiser and Dewayne E. Perry. "Infuse: Fusing Integration Test Management with Change Management". Proceedings of COMSAC 89, Kissimmee FL, September 1989
144. Dewayne E. Perry. "An Overview of the Inscape Environment". Proceedings of the International Workshop on Environments — Building Environments: Lessons from the Past, Directions for the Future, Chinon, France, September 1989.
145. Dewayne E. Perry. "The Inscape Environment". The Proceedings of the Eleventh International Conference on Software Engineering, May 1989, Pittsburgh, PA.
146. Dewayne E. Perry. "Position Paper for the Software CAD Databases Workshop". Proceedings of the 1989 ACM SIGMOD Workshop on Software CAD Databases, February 1989, Napa, CA. April 1989.
147. Dewayne E. Perry. "Problems of Scale and Process Models". The Proceedings of the 4th International Software Process Workshop: Representing and Enacting the Software Process, May 1988, Moretonhampstead, Devon, England.
148. Dewayne E. Perry and Gail E. Kaiser. "Models of Software Development Environments". The Proceedings of the Tenth International Conference on Software Engineering, April 1988, Raffles City, Singapore.
149. Gail E. Kaiser and Dewayne E. Perry. "Workspaces and Experimental Databases: Automated Support for Software Maintenance and Evolution", *Conference on Software Maintenance-1987*, Austin, TX, September 1987. pp 108-114.

150. Dewayne E. Perry. "Software Interconnection Models", *Proceedings of the 9th International Conference on Software Engineering*, Monterey, CA, March 1987. pp 61-69. Best Paper Award.
151. Dewayne E. Perry. "Version Control in the Inscape Environment", This proceedings, Proceedings of the 9<sup>th</sup> International Conference on Software Engineering, March 30 - April 2, 1987, Monterey CA.
152. Dewayne E. Perry and Gail E. Kaiser. "Infuse: A Tool for Automatically Managing and Coordinating Source Changes in Large Systems", Proceedings of the 1987 ACM Computer Science Conference, February 17-19, 1987, St. Louis MO.
153. Dewayne E. Perry and W. Michael Evangelist. "An Empirical Study of Software Interface Faults — An Update", Proceedings of the Twentieth Annual Hawaii International Conference on Systems Sciences, January 1987, Volume II, pages 113-126.
154. Dewayne E. Perry. "Programmer Productivity in the Inscape Environment", The Proceedings of GLOBECOM '86, December 1986, Houston TX, pages 0428-0434 (12.6.1-12.6.7).
155. Dewayne E. Perry. "The Iteration Mechanism in the Inscape Environment", Proceedings of the 3<sup>rd</sup> International Software Process Workshop: Iteration in the Software Process, November 1986, Breckenridge CO, pages 49-52.
156. Dewayne E. Perry. "The Inscape Environment: Knowledge-Based Synthesis of Large Systems through the Evolution of Program Interfaces", AAAI Workshop on Automatic Programming, Philadelphia, PA, August 1986.
157. Dewayne E. Perry. "Position Paper: The Constructive Use of Module Interface Specifications", Third International Workshop on Software Specification and Design. IEEE Computer Society, August 26-27, 1985, London, England.
158. Dewayne E. Perry and W. Michael Evangelist. "An Empirical Study of Software Interface Errors", Proceedings of the International Symposium on New Directions in Computing, IEEE Computer Society, August 1985, Trondheim, Norway, pages 32-38.
159. Dewayne E. Perry "Tools for Evolving Software", Proceedings of the 2nd International Workshop on The Software Process and Software Environments, March 1985, Coto De Caza, Trabuco Canyon, CA. Software Engineering Notes 11:4 (August 1986), pages 134-135.

160. A. Nico Habermann and Dewayne E. Perry. "System Composition and Version Control for Ada". Symposium on Software Engineering Environments. Bonn, West Germany. June 16-20, 1980. Published in Software Engineering Environments, edited by H. Huenke, North Holland, 1981, pp. 331-343.
161. William Cave, Dewayne E. Perry and James Wagner. "Decision Aids for Tactical Data Systems." Workshop on Applications of Interactive Cybernetic Systems, October 1975.

### *Current Submissions*

162. Jason Tay, Hyrum K Wright, and Dewayne E Perry. "Experiences Mining Open Source Release Histories", January 2011
163. Danhua Shao, Sarfraz Khurshid, and Dewayne E. Perry. "Empirical Evaluations of Semantic Analysis of Source Code Changes", August 2010
164. Elena Navarro, Carlos E. Cuesta, Dewayne E. Perry. "Antipatterns for architectural knowledge management", June 2010

### *Invited Keynote Papers*

165. Dewayne E Perry, "A Unifying Foundation for Software Engineering", 20<sup>th</sup> International Conference on Software Engineering and Data Engineering (SEDE 2011), June 2011
166. Dewayne E. Perry, and Paul Grisham. "Architecture and Design Intent in Component and COTS Based Systems", International Conference on COTS Based Software Systems, February 2006, Orlando FL., February 2006
167. Dewayne E Perry and Paul Grisham. "Software Architecture: Past, Present and Future", European Workshop on Software Architecture 2005, Pisa Italy, June 2005
168. Dewayne E Perry. "Product Line Architecture: Generic Descriptions & Case Study ", SOFT-PI'04: SOFtware Technologies for Performance and Interoperability, Tulsa OK, June 2005
169. Dewayne E. Perry. "Abstraction -- the Hard Core of Software Engineering." ETAPS 2003 Workshop: Structured Programming: The Hard Core of Software Engineering, Warsaw Poland, April 2003.
170. Dewayne E. Perry. "Software Architecture: Leverage for System Evolution", Proceedings of the Nato Symposium: Technology for

Evolutionary Software Development, Bonn Germany, September 2002.

171. Dewayne E. Perry. "Software Architecture and Software Engineering", Proceedings of the International Conference on Software: Theory and Practice 2000, Beijing China, August 2000.
172. Dewayne E. Perry. "Software Evolution and Light Semantics -- Extended Abstract", Proceedings of the 21<sup>st</sup> International Conference on Software Engineering, May 1999, Los Angeles CA.
173. Dewayne E. Perry. "Software Architecture and its Relevance to Software Engineering", Coordination 1997, Berlin DE, September 1997
174. Dewayne E. Perry. State of the Art in Software Architecture - Abstract, 1997 International Software Engineering Conference (ICSE97), Boston Mass, May 1997
175. Meir M. Lehman, Dewayne E. Perry and Wladyslaw M. Turski, "Why is it so hard to find Feedback Control in Software Processes?", Proceedings of the 19th Australasian Computer Science Conference, Melbourne AUS, January 1996
176. [Dewayne E. Perry,] Adam Porter and Lawrence G. Votta, "Experimental Software Engineering: A Report on the State of the Art", Proceedings of the Seventeenth International Conference on Software Engineering, April 1995.
177. Dewayne E. Perry, "Dimensions of Software Evolution" Invited Keynote Paper, International Conference on Software Maintenance, Victoria BC, September 1994
178. Dewayne E. Perry and Carol S. Steig, "Software Faults in Evolving a Large, Real-Time System: a Case Study", 4th European Software Engineering Conference — ESEC93, Garmisch, Germany, September 1993.
179. Dewayne E. Perry. "Industrial Strength Software Development Environments". *Proceedings of IFIP '89 - 11<sup>th</sup> World Computer Congress*, August 1989, San Francisco, CA. Invited Keynote Paper.
180. Dewayne E. Perry. "Scaling the Process Models". The Proceedings of the 4th International Software Process Workshop: Representing and Enacting the Software Process, May 1988, Moretonhampstead, Devon, England. Invited Keynote Talk.

### *Unrefereed Papers*

181. Dewayne E Perry, "Laws and Principles of Evolution", 2002 International Conference on Software Maintenance, Montreal Canada, October 2002
182. Dewayne E. Perry, "Some Holes in the Emperor's Reused Clothes", WISR'9, Austin TX, January 1999
183. Dewayne E. Perry and Takuya Katayama. "Panel: Critical Issues in Software Evolution". 1998 International Software Engineering Conference (ICSE98), Kyoto Japan, April 1998.
184. Bob Balzer, Carlo Ghezzi, Takuya Katayama, Jeff Kramer, David Notkin, Dewayne Perry and Akinori Yonezawa. "Workshop: Principles of Software Evolution" 1998 International Software Engineering Conference (ICSE98), Kyoto Japan, April 1998.
185. Dewayne E. Perry, Adam P. Porter and Lawrence G. Votta, "Tutorial: A Primer on Empirical Studies", Abstract, 1997 International Software Engineering Conference (ICSE97), Boston Mass, May 1997.
186. Dewayne E. Perry, Wilhelm S. Schaefer and Lawrence G. Votta, "Session 2: Product Line Development Experience I", 10th International Software Process Workshop, June 1996, Ventron FR.
187. Dewayne E. Perry, Wilhelm S. Schaefer and Lawrence G. Votta, "Session 3: Product Line Development Experience II" 10th International Software Process Workshop, June 1996, Ventron FR.
188. Dewayne E. Perry, Wilhelm S. Schaefer and Lawrence G. Votta, "Session 4: Day 1 Summary and Issues" 10th International Software Process Workshop, June 1996, Ventron FR.
189. Nancy S. Staudenmayer and Dewayne E. Perry, "Session 5: Key Techniques and Process Aspects for Product Line Development" 10th International Software Process Workshop, June 1996, Ventron FR.
190. Dewayne E. Perry, Session 8: Product Line Implications for Process - Summary 10th International Software Process Workshop, June 1996, Ventron FR.
191. Dewayne E. Perry, "OO and Opportunities for Software Evolution" Invited Panel Position Paper, International Conference on Software Maintenance, Victoria BC, September 1994



192. David Garlan and Dewayne E. Perry, "Software Architecture: Practice, Pitfalls, and Potential" Panel Introduction, 16th International Conference on Software Engineering, Sorrento IT, May 1994.
193. Dewayne E. Perry and Alexander L. Wolf. "Foundations for the Study of Software Architecture". ACM SIGSOFT Software Engineering Notes, 17:4 (October 1992).
194. Dewayne E. Perry. "Evolution and Interaction -- Position Paper", Invited position paper for the workshop on "Future Directions in Software Engineering", February 1992, Schloss Dagstuhl, Germany.
195. Dewayne E. Perry. "Session Report: Session 5 — Human Aspects of Process Design", Proceedings of the 7<sup>th</sup> International Software Process Workshop, October 1991, Yountville CA.
196. Dewayne E. Perry. "Panel Position Statement. Future Process Directions." Invited position paper. Proceedings of the 1st International Conference on the Software Process: Manufacturing Complex Systems, October 1991, Redondo Beach CA.
197. Dewayne E. Perry. "Evolving a House -- A Parable for Software Engineering", Software Engineering Notes, 16:2 (April 1991).
198. Kouichi Kishida and Dewayne Perry. "Report on Session V: Team Efforts" Proceedings of the 6<sup>th</sup> International Software Process Workshop", 28-31 October 1990, Hakodate, Japan.
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210. Dewayne E. Perry, Ashok Dandekar and Larry Votta, "An Experiment in Process Simplification", Extended Abstract, AT&T Software Symposium, October 1994.
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*In Preparation*

380. Rodion Podorozhny, Lee Osterweil, and Dewayne E Perry  
“Artifact Based Functional Comparison of Software Processes”

381. Mark Grechanik, Dewayne E Perry and Don S Batory, “TML:  
Engineering a Domain Specific Language.”

382. Mark Grechanik, Dewayne E Perry and Don S Batory,  
“Reification of Disparate System Type Schemas.”

383. Rodion M Podorozhny, Leon J Osterweil and Dewayne E Perry  
“Comparison process specifications for repeatable comparisons  
of software design methods”

Selected Invited Presentations

*Academic:*

Flinders University,

Carnegie-Mellon University,

Columbia University,

Georgia Institute of Technology,

Hartford Graduate Center,

IFIP 2.4 Working Group, Queens University,

Rutgers University,

Syracuse University,

University of California at Irvine,

University of Maryland at College Park,

University of Massachusetts at Amherst.

University of Texas, Austin

Westmont College.

*Industrial:*

Bell Communications Research,

Centre de recherche informatique de Montreal,

Kestrel Institute,

Lockheed,



Massachusetts Computer Associates,  
Micro-Electronics Consortium (MCC),  
Nokia  
Seimens Corporate Research,  
Software Engineering Institute,  
Software Productivity Consortium,  
Schlumberger Computer Science Laboratory,  
Sun Micro-Systems,  
Unisys Paoli Research Center,  
USC - Information Sciences Institute.

### Teaching Experience

- Westmont College, Santa Barbara, CA  
Teaching Assistant in Music  
Music Theory
- University of California, Los Angeles, CA  
Teaching Assistant in Philosophy  
Discussion sections in Introductory Philosophy
- Fairleigh Dickinson University, Madison, NJ  
Introduction to Computer Science  
Programming in Fortran
- Stevens Institute of Technology, Hoboken, NJ  
MA188/189 - Programming Methodology
- Carnegie-Mellon University, Pittsburgh, PA  
15-412 Operating Systems  
15-711 Systems Programming (the Operating Systems/Database part)

### The University of Texas at Austin – Courses

EE322C, Data Structures in C++  
EE360F, Introduction to Software Engineering  
ESE382C, Introduction to Software Engineering  
EE316, Digital Systems Engineering I  
EE382C, Empirical Studies in Software Engineering  
ESE382C, Empirical Studies in Software Engineering  
EE382V, Architecture and Design Intent

EE382V, Collaborative Software Design and Development

EE398R, Master's Reports

EE397K, Summer Research Projects

### The University of Texas at Austin – Administrative

Director, UT ARiSE - Center for Advanced Research in Software Engineering, Spring 2002 – Spring 2004, Fall 2010 – present

Chair, SWE Undergraduate Curriculum Committee, Spring 2002 – fall 2004

Director, Executive Software Engineering Masters Program, Spring 2000 – spring 2003

CE Curriculum Redesign Committee, Spring-Fall 2000

### The University of Texas at Austin - Academic

#### *Completed Masters Theses*

Svetoslav Ganov, Spring 2008

Vidya Lakshmi, Fall 2006

Laurent Hermoye, Spring 2006

Michael Jester, Summer 2005

Damien Vanderveken, Spring 2004

Divya Jana, Spring 2004

Gianlorenzo Thione, Fall 2003

Ranjith Purushothaman, Spring 2002

Jerry Yang, Spring 2002

Manuel Brandozzi, Fall 2002

#### *Current Masters Students*

#### *Completed PhD Theses*

Rodion Podorozhy, Summer 2004 (Now at Texas State University, San Marcos TX)

Mark Grechanik, Fall 2006 (Now at Accenture Research Labs, Chicago IL)

Sutirtha Bhattacharya, Fall 2006 (at Intel Corp, Portland OR)

#### *Current PhD Students*

Meiru Che

Paul Grisham

Enos Jones

Dan Luu

Jacob Sarvela

Danhua Shao

Hyrum Wright

*Current PhD Committees*

Dung Lam

*Completed PhD Committees*

Thomas Wahl

Ibrahim Ihr, Fall 2006

Fei Xie, Summer 2004

Richard Cardone, Fall 2002

Thomas Graser, Spring 2001

James Carrell Holt, Spring 2000

**Other PhD. Committees**

Wendy Liu, University of Toronto, Toronto CANADA

Catherine Jaktman, University of Technology, Sydney External Examiner. 2001

Atte Kinnula, University of Oulu, Oulu, Finland. Reviewer and Opponent. Summer 1999.

Bradley Schmerl, Flinders University, Adalaide, Australia. External Examiner. 1997