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

The paper "Foundations for the Study of Software Architecture", by Dewayne E. Perry and Alexander L. Wolf (in ACM SIGSOFT Software Engineering Notes, vol. 17, no. 4, October 1992) has been since at least 1999 and continues to be the most cited software engineering paper [cf NEC CiteSeer and ACM SigSoft Software Engineering Notes]

Keynote Talk, "Systems of Systems and Statically Defined Dynamic Architecture Evolution", 4th International Workshop on Software Engineering for Systems-of-Systems, The 38th International Conference on Software Engineering, Austin, TX, May 2016.

Best Paper Award. Wang Zhongjie, Dewayne E. Perry. "Role Distribution and Transformation in Open Source Software Project Teams." The 22nd Asia-Pacific Software Engineering Conference, New Delhi, India, Dec.1-4, 2015.

Keynote Talk and Paper "Teams, Technology, Processes, and Organizations in Collaborative Software Engineering," The 2015 International Conference on Collaboration Technologies and Systems (CTS 2015), Atlanta GA, June 2015.

Keynote Respondent to Barry Boehm's Keynote, "Experience with Empirical Studies in Industry: Building Parametric Models –

Response", 1st International Workshop on Conducting Empirical Studies on Industry (CESI) 2013, 35th International Conference on Software Engineering (ICSE), San Francisco CA, May 2013.

ACM SigSoft Retrospective Impact Award, September 2011, for Foundations for the Study of Software Architecture, by Dewayne E. Perry and Alexander L. Wolf. In ACM SIGSOFT Software Engineering Notes, vol. 17, no. 4, October 1992. http://www.sigsoft.org/awards/ImpactAward.htm

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

Nominated for Best Student Paper. 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.

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", 2nd 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

Steering Committee, ICSSP, 2012-Present

Chair, International Software Process Association, 1993-Present.

Associate Editor, ACM Transactions on Embedded Computing Systems, 2004-2008.

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, 2011-present

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

Co-Chair, Software Engineering Education Track, ICSE 2016, May 2016

ICSSP 2016 – Co-Chair, of International Conference on Software and Systems Processes 2016, May 2016

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

ECSA 2016 – European Conference on Software Architecture 2015, July 2016

MSR 2016 – Mining Software Repositories 2016, May 2016

TOSE 2016 – Theory of Software Engineering 2016, May 2-16

CESI 2015 - Program Committee of the Intl. Workshop on Conducting Empirical Studies in Industry, May 2016

WICSA 2016 - Program Committee of the 9th Working Conference on Software Architecture, April 2016

ECSA 2015 – European Conference on Software Architecture 2015, September 2015

ICSSP 2015 - Program Committee of International Conference on Software and Systems Processes 2015, August 2015

FASSI 2015 – First International Conference on Fundamentals and Advances in Software Systems Integration, August 2015.

GTSE 2015 – Program Committee of the 4th SEMAT Workshop on a General Theory of Software Engineering, June 2015

COUFLESS 2015 – Workshop on Complex Faults and Failures in Large Software Systems, May 2015

CESI 2015 - Program Committee of the First Intl. Workshop on Conducting Empirical Studies in Industry, May 2015

RELENG 2015 - Program Committee of the 1st International Workshop on Release Engineering, May 2015

WICSA 2015 - Program Committee of the 9th Working Conference on Software Architecture, May 2015

ECSA 2014 - 8th European Conference on Software Architecture 2014, July 2014

COUFLESS 2014 – Workshop on Complex Faults and Failures in Large Software Systems, June 2014

CESI 2014 – Program Committee of the First Intl. Workshop on Conducting Empirical Studies in Industry, ICSE 2014, June 2014

GTSE 2014 – Program Committee of the 3rd SEMAT Workshop on a General Theory of Software Engineering, June 2014

ICSSP 2014 - Program Committee of International Conference on Software and Systems Processes 2014, May 2014

RELENG 2014 - Program Committee of the 1st International Workshop on Release Engineering, April 2014

WICSA 2014 - Program Committee of the 9th Working Conference on Software Architecture, April 2014

ECSA 2013 – 7th European Conference on Software Architecture 2013, July 2013

GTSE 2013 – Program Committee of the 2nd SEMAT Workshop on a General Theory of Software Engineering, May 2013

CESI 2013 - Program Committee of the First Intl. Workshop on Conducting Empirical Studies in Industry, May 2013

RELENG 2013 - Program Committee of the 1st International Workshop on Release Engineering, May 2013

ICSSP 2013 - Program Committee of International Conference on Software and Systems Processes 2013, May 2013

QSIC 2012 – Program Committee of the 12th International Conference on Quality Software, August 2012

ECSA-WICSA 2012 – Program Committee of the combined 6th European Conference on Software Architecture and 10th Working Conference on Software Architecture, August 2012

ICSSP 2012 – Program Committee of International Conference on Software and Systems Processes 2011, June 2012

VADER 2011 – Program Committee of the Second International Workshop on Variability, Adaption and Dynamism in services and architectures, October 2011

WICSA 2011 – Program Committee of the 9th 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

ECSA 2010 – Program Committee of 4th 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/ECSA 2009 – 8th Working Conference on Software Architecture/3rd 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

ECSA 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.

2nd 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

Fujitsu Labs Of America Inc, "Automatic Repair of Method Invocations in Object-oriented Programs", $20,000.00.

NSF CISE CCF: Analytical Support for Investigating Software Modifications in Collaborative Development Environment. $512,137, 2011-2015.

Texas Office of Attorney General, Child Services: Independent Verification & Validation for T2. $1,500,000, 2011-2016.

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

DARPA/BAE: The Bootstrapped Learning Project, $668,000, 2007-20010.

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 ADABASE. 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, David Raffo, Marco Kuhrmann, and Rory V. O'Connor. Proceedings of the International Conference on Software and Systems Process 2016, ACM SigSoft & ISPA, Austin, TX, USA — May 14 - 22, 2016

2. 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.

3. Alexander Egyed, Hausi Mueller, Dewayne E. Perry, Dennis B. Smith, Scott Tilley. Proceedings of the 2nd International Workshop on Incorporating COTS Software into Software Systems (WICSS 2007). 29th International Conference on Software Engineering, Minneapolis MN, May 2007.

4. Paris Avgeriou, Paul S. Grisham, Philippe Kruchten, Patricia Lago and Dewayne E. Perry. Proceedings of the 2nd Intl. Workshop on SHAring and Reusing architectural Knowledge - Architecture, rationale, and Design Intent (SHARK/ADI 2007), 29th International Conference on Software Engineering, Minneapolis MN, May 2007.

5. 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

6. 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

7. 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.

8. 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

9. Alexander Egyed, Hausi A Mueller, and Dewayne E Perry. Guest Editors, Special Issue: COTS Integration, IEEE Software 22:4 (July/August 2005)

10. Alexander Egyed and Dewayne E. Perry, Proceedings of the 1st 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.

11. Dewayne E Perry. Foreword. Architecting Dependable Systems. Lemos, Gacek and Romanovksy, Eds. Springer Verlag, LNCS 2677, 2003, pp v-vi.

12. Paul Clements, Alexander Ran and Dewayne Perry, Proceedings of the 1st Working IFIP Conference on Software Architecture (WICSA1), February 1999.

13. Jeff N. Magee and Dewayne E. Perry, Proceedings of the 3rd International Software Architecture Workshop, ACM SIGSOFT, November 1998. ACM Press, 1998.

14. Barry Boehm, Mark I. Kellner and Dewayne E. Perry, Proceedings of the 10th International Workshop on Software Process, IEEE Computer Society, August 1998.

15. Robert Balzer, Leon J. Osterweil and Dewayne E. Perry, Proceedings of the 5th International Conference on Software Process, International Software Process Association, June 1998

16. 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.

17. Dewayne Perry, Ross Jeffery and David Notkin, Editors, Proceedings of the 17th International Conference on Software Engineering, The Association for Computing Machinery, April 1995.

18. Dewayne E. Perry, Editor. Proceedings of the Third International Conference on the Software Process: Applying the Software Process, IEEE Computer Society Press, October 1994.

19. Dewayne E. Perry, Editor. Proceedings of the Fifth International Software Process Workshop, Kennebunkport ME, October 1989. IEEE Computer Society Press, 1990.

20. 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.

21. A. Nico Habermann and Dewayne E. Perry. Ada For Experienced Programmers. Reading, Mass: Addison-Wesley, May 1983.

22. 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

1. Wang Zhongjie, Dewayne E. Perry, Xu Xiaofei. "Empirical Study on the Continuity and Stability of Behaviors of OSS Developers." Submitted for journal publication.

2. Yuqun Zhang, Dewayne E. Perry, "Optimizing Temporal Performance in Data-Centric Business Processes", accepted for publication, International Journal for Service Computing, 2016.

3. Wang Zhongjie, Dewayne E. Perry, Xu Xiaofei. "Characterizing Individualized Contributions of OSS Developers from Topic Perspective." Int'l Journal of Software Engineering and Knowledge Engineering, 2016.

4. Meiru Che, Dewayne E. Perry, Guowei Yang "Evaluating Architectural Design Decision Paradigms in Global Software

Development", International Journal of Software Engineering and Knowledge Engineering, 2015

5. Ripon K. Saha, Sarfraz Khurshid, Dewayne E. Perry. "Long Lived Bugs: An Empirical Study", accepted for publication in the Journal of Information and Software Technology, Elsevier, 2015, 114-128.

6. Dewayne E Perry. "A Framework for Exploring Unifying Theories of Empirical Software Engineering", Science of Computer Programming, Special Issue on General Theories of Software Engineering 101 (2015), 99-123.

7. Cristina Roda, Elena Navarro, Carlos E. Cuesta, and Dewayne E Perry. "An Empirical Evaluation of Visualization Techniques for Architectural Knowledge", submitted for publication.

8. Elena Navarro, Carlos E. Cuesta, Dewayne E Perry, and Pasqual Gonzales, "Antipatterns for Architectural Knowledge Management", International Journal of Information Technology & Decision Making, 12:3 (May 2013), pp 547-589.

9. Carlos E. Cuesta, Elena Navarro, Dewayne E Perry, and Cristina Roda, "Evolution Styles: Using Architectural Knowledge as an Evolution Driver", Journal of Software: Evolution and Process, 25:9 (September 2013), pp 891-1059.

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152. 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

153. Dewayne E. Perry and Steven S. Popovich, "Inquire: Predicate Based Use and Reuse", Knowledge-Based Software Engineering Conference, Chicago IL, September 1993.

154. 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.

155. Dewayne E. Perry. "Humans in the Process: Architectural Implications", Proceedings of the 8th International Software Process Workshop March 1993, Schloss Dagstuhl, Germany.

156. Dewayne E. Perry. "Policy-Directed Coordination and Cooperation", Proceedings of the 7th International Software Process Workshop, October 1991, Yountville CA.

157. 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.

158. 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.

159. Dewayne E. Perry. "Policy and Product-Directed Process Instantiation" Proceedings of the 6th International Software Process Workshop", 28-31 October 1990, Hakodate, Japan.

160. 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.

161. Gail E. Kaiser and Dewayne E. Perry. "Infuse: Fusing Integration Test Management with Change Management". Proceedings of COMSAC 89, Kissimmee FL, September 1989

162. 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.

163. Dewayne E. Perry. "The Inscape Environment". The Proceedings of the Eleventh International Conference on Software Engineering, May 1989, Pittsburgh, PA.

164. 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.

165. 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.

166. 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.

167. 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.

168. 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.

169. Dewayne E. Perry. "Version Control in the Inscape Environment", This proceedings, Proceedings of the 9th International Conference on Software Engineering, March 30 - April 2, 1987, Monterey CA.

170. 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.

171. 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.

172. 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).

173. Dewayne E. Perry. "The Iteration Mechanism in the Inscape Environment", Proceedings of the 3rd International Software Process Workshop: Iteration in the Software Process, November 1986, Breckenridge CO, pages 49-52.

174. 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.

175. 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.

176. 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.

177. 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.

178. 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.

179. William Cave, Dewayne E. Perry and James Wagner. "Decision Aids for Tactical Data Systems." Workshop on Applications of Interactive Cybernetic Systems, October 1975.

Invited Keynote Papers

180. Dewayne E Perry, "A Unifying Foundation for Software Engineering", 20th International Conference on Software Engineering and Data Engineering (SEDE 2011), June 2011

181. 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

182. Dewayne E Perry and Paul Grisham. "Software Architecture: Past, Present and Future", European Workshop on Software Architecture 2005, Pisa Italy, June 2005

183. Dewayne E Perry. "Product Line Architecture: Generic Descriptions & Case Study ", SOFT-PI'04: SOFtware Technologies for Performance and Interoperability, Tulsa OK, June 2005

184. 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.

185. Dewayne E. Perry. "Software Architecture: Leverage for System Evolution", Proceedings of the Nato Symposium: Technology for Evolutionary Software Development, Bonn Germany, September 2002.

186. Dewayne E. Perry. "Software Architecture and Software Engineering", Proceedings of the International Conference on Software: Theory and Practice 2000, Beijing China, August 2000.

187. Dewayne E. Perry. "Software Evolution and Light Semantics -- Extended Abstract", Proceedings of the 21st International Conference on Software Engineering, May 1999, Los Angeles CA.

188. Dewayne E. Perry. "Software Architecture and its Relevance to Software Engineering", Coordination 1997, Berlin DE, September 1997

189. Dewayne E. Perry. State of the Art in Software Architecture - Abstract, 1997 International Software Engineering Conference (ICSE97), Boston Mass, May 1997

190. 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

191. [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.

192. Dewayne E. Perry, "Dimensions of Software Evolution" Invited Keynote Paper, International Conference on Software Maintenance, Victoria BC, September 1994

193. 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.

194. Dewayne E. Perry. "Industrial Strength Software Development Environments". *Proceedings of IFIP '89 - 11ᵗʰ World Computer Congress,* August 1989, San Francisco, CA. Invited Keynote Paper.

195. 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

196. Iaakov Exman, Dewayne E Perry, Balbir Barn, Paul Ralph. "Separability Principles for a General Theory of Software Engineering: Report on the GTSE 2015 Workshop", ACM SIGSOFT Software Engineering Notes. Volume 41Issue1, January 2016, pp 25-27.

197. Johnson et al., "Report on the Second SEMAT Workshop on General Theory of Software Engineering (GTSE 2013)", ACM SIGSOFT Software Engineering Notes, September 2013

198. Dewayne E Perry [and Larry Votta]. "A Tale of Two Projects", March 2013.

199. Dewayne E Perry, "Laws and Principles of Evolution", 2002 International Conference on Software Maintenance, Montreal Canada, October 2002

200. Dewayne E. Perry, "Some Holes in the Emperor's Reused Clothes", WISR'9, Austin TX, January 1999

201. Dewayne E. Perry and Takuya Katayama. "Panel: Critical Issues in Software Evolution". 1998 International Software Engineering Conference (ICSE98), Kyoto Japan, April 1998.

202. 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.

203. 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.

204. 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.

205. 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.

206. 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.

207. 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.

208. Dewayne E. Perry, Session 8: Product Line Implications for Process - Summary 10th International Software Process Workshop, June 1996, Ventron FR.

209. Dewayne E. Perry, "OO and Opportunities for Software Evolution" Invited Panel Position Paper, International Conference on Software Maintenance, Victoria BC, September 1994

210. David Garlan and Dewayne E. Perry, "Software Architecture: Practice, Pitfalls, and Potential" Panel Introduction, 16th International Conference on Software Engineering, Sorrento IT, May 1994.

211. Dewayne E. Perry and Alexander L. Wolf. "Foundations for the Study of Software Architecture". ACM SIGSOFT Software Engineering Notes, 17:4 (October 1992).

212. 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.

213. Dewayne E. Perry. "Session Report: Session 5 — Human Aspects of Process Design", Proceedings of the 7th International Software Process Workshop, October 1991, Yountville CA.

214. 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.

215. Dewayne E. Perry. "Evolving a House -- A Parable for Software Engineering", Software Engineering Notes, 16:2 (April 1991).

216. Kouichi Kishida and Dewayne Perry. "Report on Session V: Team Efforts" Proceedings of the 6th International Software Process Workshop", 28-31 October 1990, Hakodate, Japan.

217. Dewayne E. Perry, editor. "Preface and Introduction" Proceedings of the 1st Symposium on Environments and Tools for Ada. Redondo Beach CA, May 1990. SIGAda Letters.

218. Dewayne E. Perry. "Summary Report on the Fifth International Software Process Workshop, Kennebunkport ME, October 1989"

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

219. Dewayne E. Perry, Editor. "Preface and Introduction", Proceedings of the Fifth International Software Process Workshop, Kennebunkport ME, October 1989.

220. Dewayne E. Perry. "Summary of Session 5: Control". Proceedings of the Fifth International Software Process Workshop, Kennebunkport ME, October 1989.

221. Dewayne E. Perry. "Session Report: Abstraction and Structure", 5th International Workshop on Software Specification and Design, Pittsburgh PA, May 1989. in "Working Group Summaries from IWSSD '89", ACM SIGSOFT Software Engineering Notes, 14:5 (July 1989), pp 35-42.

222. Dewayne E. Perry. "Session Summary: Conclusions". The Proceedings of the 4th International Software Process Workshop: Representing and Enacting the Software Process, May 1988, Moretonhampstead, Devon, England.

223. Dewayne E. Perry. "Session Summary: Metamodels." Proceedings of the 3rd International Software Process Workshop: Iteration in the Software process. Breckenridge, CO, November 1986. pp 49-52.

224. Dewayne E. Perry. "Session 6: Summary of the Presentations and the Ensuing Discussions." 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 93-96.

225. Tim Standish, et al. "User Interfaces. Report of Working Group 6." Future Ada Environments Workshop, Santa Barbara, CA, September 1984. Software Engineering Notes 10:2 (April 1985).

Internal Conference Papers

226. Marek Leszak, Dewayne E. Perry and Dieter Stoll, "A Case Study in Root Cause Defect Analysis", Lucent Software Symposium 1998, October 1998

227. Ashok Dandekar and Dewayne E. Perry, "Barriers to Effective Process Architecture", Extended Abstract, AT&T Software Symposium, October 1994.

228. Dewayne E. Perry, Ashok Dandekar and Larry Votta, "An Experiment in Process Simplification", Extended Abstract, AT&T Software Symposium, October 1994.

229. D.C. Carr, A.V. Dandekar and D. E. Perry, "The Big Picture — Experiments in Process Interface Description, Visualization and Analysis", AT&T Software Symposium, October 1993.

230. D.C. Carr, A.V. Dandekar and D. E. Perry, "Experiments in Process Visualization", AT&T Software Symposium, October 1993.

231. D. E. Perry, M.G.Bradac, N.A. Staudenmayer, L.G.Votta, ´AT&T Switching Systems Technology Transfer Symposium, December 1993.

232. D. E. Perry, A.V. Dandekar, D.C. Carr, S.C. North, "Experiments in Process Visualization: Interface AT&T Switching Systems Technology Transfer Symposium, December 1993.

233. Dewayne E. Perry and Steven S. Popovich. "Inquire: Predicate-Based Use and Reuse". Specification Driven Tools Conference, AT&T Bell Laboratories, October 1989.

234. Dewayne E. Perry, James T. Krist, and William W. Schell. "The Inscape Environment and the Design of Finite State Machines in SDL". 5ESS Software Development Environment Conference, Naperville IL, November 1988.

235. Dewayne E. Perry. The Construction of Robust, Fault-Tolerant Software in the Inscape Environment. AT&T Fault-Tolerance Symposium, September 1986.

Technical Reports

236. Dewayne E Perry and Don Batory, "On the Structure of General Theories of Software Engineering", October 2013.

237. Cristina Roda, Elena Navarro, Carlos E. Cuesta, and Dewayne E Perry. "An Empirical Evaluation of Visualization Techniques for Architectural Knowledge", May 2012.

238. Dewayne E Perry, "A Unifying Theoretical Foundation for Software Engineering, November 2010.

239. Dewayne E Perry, "A BASIC PLAN FOR AN AUTOMATED STUDENT BENCHMARK STUDY - Revised", ESEL, ECE. UT Austin, , November 2010.

240. Danhua Shao Divya Gopinath Sarfraz Khurshid Dewayne E. Perry. "Optimizing Incremental Scope-bounded Checking with Data-flow Analysis", October 2009

241. Elena Navarro, Carlos E. Cuesta, Dewayne E. Perry. "Weaving a Network of Architectural Knowledge", ESEL, ECE, UT Austin, July 2009.

242. Dewayne E Perry, "A BASIC PLAN FOR AN AUTOMATED STUDENT BENCHMARK STUDY - Revised", ESEL, ECE. UT Austin, , July 2009.

243. Matthew Berland and Dewayne E Perry. "Novice Human Teachers of a Virtual Toddler: A Case Study", January 2009.

244. Hyrum K. Wright and Dewayne E. Perry "Subversion 1.5: A Case Study in Open Source Release Mismanagement", ESEL, ECE, UT Austin, November 2008.

245. Dewayne E Perry, "A BASIC PLAN FOR AN AUTOMATED STUDENT BENCHMARK STUDY", ESEL, ECE. UT Austin, November 2008.

246. Dewayne E Perry. "Report for the Human Teacher Study", ESEL, ECE, UT Austin , October 2008.

247. Danhua Shao, Sarfraz Khurshid, and Dewayne E. Perry. "Understanding Semantic Impact of Source Code Changes: an Empirical Study" June 2008.

248. Svetoslav Ganov, Enos Jones, Angela Dalton, Dewayne E Perry "Dynamic User Interface Generation: Extended Abstract" March 2008.

249. Svetoslav Ganov, Enos Jones, Angela Dalton, Dewayne E Perry "Dynamic User Interface Generation: Demo Proposal" March 2008.

250. Dewayne E Perry. "A Foundation for Empirical Software Engineering" March 2007.

251. Soon-Hyeok Choi, Dewayne E. Perry and Scott M. Nettles. "A Software Architecture for Cross-Layer Wireless Network Adaptations", March 2007.

252. Svetoslav Ganov, Sarfraz Khurshid and Dewayne E. Perry. "Symbolic Execution for GUI Testing" January 2007.

253. Danhua Shao, Sarfraz Khurshid and Dewayne E Perry, "Mining Software Repositories for Rigorous Empirical Evaluation: A Position Paper" January 2007.

254. Paul S Grisham, Charles L. Chen, Sarfraz Khurshid, and Dewayne E. Perry. "Validation of a Security Model with the Alloy Analyzer", October 2006, revised January 2007.

255. Rodion Podorozhny, Sarfraz Khurshid, Dewayne Perry, and Xiaoqin Zhang. "Verification of cooperative multi-agent negotiation with the Alloy Analyzer", October 2006

256. Soon-Hyeok Choi, Dewayne E. Perry and Scott M. Nettles. "A Software Architecture for Cross-Layer Wireless Network Adaptations", September 2006

257. Laurent A. Hermoye, Axel van Lamsweerde and Dewayne E. Perry. "Attack Patterns for Security Requirements Engineering", September 2006

258. Danhua Shao, Sarfraz Khurshid and Dewayne E Perry. "Detecting Semantic Interference in Parallel Changes: An Exploratory Case Study". September 2006

259. Mark Grechanik, Kathryn S. McKinley and Dewayne E. Perry. "Recovering Use-Case-Diagram-To-Source- Code Traceability Links", September 2006

260. Vidya Lakshminarayanan, WenQian Liu, Charles L Chen, Dewayne E Perry. "Dealing with Security: A Multiple Case Study on Software Architects", June 2006

261. Rodion Podorozhny, Anne Ngu, Dimitrios Georgakopoulous, Dewayne Perry. "Software architecture for flexible integration of process model synthesis methods", March 2006

262. Harvey P. Siy and Dewayne E Perry. "Analyzing Source Code in Source Control Repositories", February 2006

263. Vidya Lakshminarayanan, WenQian Liu, Charles L Chen, Steve Easterbrook, Dewayne E Perry. "Software Architects in Practice", October 2005

264. Damien Vanderveken, Axel van Lamsweerde, Dewayne E Perry, and Christophe Ponsard. "Deriving Architectural Descriptions from Goal-Oriented Requirements Models", September 2005

265. Mark Grechanik, Kathryn McKinley and Dewayne E Perry. "Automating and Validating Program Annotations", Technical Report TR-05-39. August 2005. 38 pages.

266. Vidya Lakshminarayanan, WenQian Liu, Charles L Chen, Dewayne E Perry. "A Case Study of Architecting Security Requirements in Practice: Initial Analysis", June 2005

267. Sutirtha Bhattacharya and Dewayne E. Perry. "Predicting Architectural Styles from Component Specifications". May 2005

268. Rodion M. Podorozhny, Wuxu Peng and Dewayne E. Perry. "Self-stabilization in cooperative multi-agent systems by a reset: Position Paper", March 2005

269. Danhua Shao, Sarfraz Khurshid and Dewayne E. Perry. "Mining Change and Version Management Histories to Evaluate an Analysis Tool - Extended Abstract -" February 2005.

270. Matthew J. Hawthorne and Dewayne E. Perry "Architectural Styles for Adaptable Self-Healing Dependable Systems" February 2005.

271. Mark Grechanik, Dewayne E. Perry, and Don Batory. "A Scalable Security Mechanism For Large-Scale Component-Based Systems", Revised February 2005.

272. G. Lorenzo Thione and Dewayne E. Perry. Parallel Changes: Detecting Semantic Interference. September 2004.

273. Rodion M. Podorozhny, Dewayne E. Perry, Leon J. Osterweil. "Automatically Analyzing Software Processes: Experience Report" September 2003.

274. Mark Grechanik, Dewayne E. Perry and Don Batory. An Aspect-Oriented Approach for Engineering Monitoring and Administrative Software. September 2003.

275. Rodion M. Podorozhny, Dewayne E. Perry, Leon J. Osterweil, "Rigorous, automated method for artifact-based functional comparison of software processes", Spring 2003.

276. Mark Grechanik, Dewayne E Perry, Don Batory, and R. Greg Lavender. XML-based Intermediate Representation (XIR) Spring 2002.

277. Oliver Laitenberger, Dieter Rombach, Marcus Ciolkowski, Dewayne Perry, Forrest Shull Software Inspections, Reviews & Walkthroughs - Extended Abstract SIGSOFT/NSF Impact Report, Spring 2002

278. Oliver Laitenberger, Dieter Rombach, Marcus Ciolkowski, Dewayne Perry, Forrest Shull Software Inspections, Reviews & Walkthroughs SIGSOFT/NSF Impact Report, Spring 2002

279. Manuel Brandozzi and Dewayne E. Perry "Introduction to Architectural Prescriptions" Summer 2001.

280. Rodion M Podorozhny, Leon J Osterweil and Dewayne E Perry "Comparison of process specification for repeatable comparison of architecting processes", Spring 2001.

281. Dewayne E. Perry and Wladyslaw M. Turski. "Report from the Visiting Fellows for the FEAST/1 Project", April 1999.

282. Dewayne E. Perry, "A Product Line Architecture for a Network Product - A Case Study", March 1999.

283. MM Lehman, DE Perry and JCF Ramil. "A Fresh Look at the Fourth Law of Software Evolution", September 1997.

284. Dewayne E. Perry. "Dimensions of Consistency in Source Versions and System Compositions", September 1997

285. Dewayne E. Perry and Wladyslaw M. Turski. "Report from the Visiting Fellows for the FEAST/1 Project", June 1997

286. The SLG Process Subteam, "SLG Process Subteam Best-In-Class Software Process Requirements; Release 2" December 1995.

287. The SLG Process Subteam, "SLG Process Subteam Best-In-Class Software Process Requirements", December 1994.

288. Mark G. Bradac, Dewayne E. Perry and Lawrence G. Votta. "The Diagnostic Development Process Monitoring Experiment — Progress Report", February 1993.

289. Dewayne E. Perry. "pv — An Experiment in Process Visualization", 1993.

290. Dewayne E. Perry. "Interact and Intermediate: A Process Description Formalism and a Support Environment", 1993

291. John R. Nestor and Dewayne E. Perry. "Interim Report on the TS Language", AT&T Bell Laboratories, April 1992.

292. J. O. Coplien, W. H. Lin, D. E. Perry, L. G. Votta, D. Weiss. "Guidelines for the MITS Based Interval Reduction Study", AT&T Bell Laboratories, April 1992.

293. M. G. Bradac, D. E. Perry, and L. G. Votta. "Preliminary MITS Data Presentation and Analysis: ISLU2 Diagnostic Software Development", AT&T Bell Laboratories, June 1992.

294. P. Korhorn, D. E. Perry, W. Scacchi, L. G. Votta, and M. Wish. "Final Report on Initial Experiments Applying Process Modeling Technology to 5ESS™ International On Line Methodology", AT&T Bell Laboratories, July 1992.

295. Dewayne E. Perry and Carol S. Stieg. "Software Faults in Evolving a Large, Real-Time System: a Case Study". April 1990; Revised August 1992.

296. John R. Nestor and Dewayne E. Perry. "Status Report on the Review of TS", AT&T Bell Laboratories, September 1992.

297. Dewayne E. Perry. "Modular Interconnection Formalism Working Group Report", Washington DC, December 1991.

298. Dewayne E. Perry and Jon Ward. "Modular Interconnection Formalism Working Group Report", Santa Fe NM, August 1991.

299. Dewayne E. Perry. "Modular Interconnection Formalism Working Group Report", Boston MA, May 1991.

300. Dewayne E. Perry and Alexander L. Wolf. "Software Architecture". August 1989. Revised January 1991.

301. Dewayne E. Perry. "Modular Interconnection Formalism Working Group Report", Marina Del Rey CA, December 1990.

302. Dewayne E. Perry. "Modular Interconnection Framework Working Group Report", October 1990.

303. Dewayne E. Perry and Stephen S. Popovich. "Inquire: Predicate-Based Use and Reuse". September 1990.

304. Dewayne E. Perry. "Reuse and Repository Working Group Report", DARPA Technical Community Meeting, June 1990, Washington DC.

305. Pamela Zave, Van E. Kelly, and Dewayne E. Perry. "Living Representations for Industrial Software Development". January 1990.

306. Dewayne E. Perry. "The Inscape Environment: A Practical Approach to Specifications in Large-Scale Software Development. A Position Paper." January 1990.

307. Van E. Kelly, David J. Ahnen, Ronald J. Brachman, Prudence T. Z. Kapauan, Dewayne E. Perry, Pamela Zave. "A Naming Scheme for the TRIAD/SDE Project". Technical Memorandum, AT&T Bell laboratories, May 1989.

308. Helen Diamontitus and Dewayne E. Perry. "Economic Modeling of the Inscape Environment".

309. Dewayne E. Perry. "The Inscape Program Construction and Evolution Environment". Technical Report. Computing Systems Research Laboratory Technical Report, AT&T Bell Laboratories, August 1986.

310. Dewayne E. Perry. "Program Construction and Evolution based on Interface Specifications: Motivation and Overview". Computing Systems Research Laboratory Technical Report, AT&T Bell Laboratories, May 1985.

311. Dewayne E. Perry and Nam S. Woo. "Some Observations on Prolog Programming.ˮ Computer Technology Research Laboratory Technical Report, AT&T Bell Laboratories, November 1984.

312. Dewayne E. Perry. TT: User Interface Design. With R.A. Thompson, B. John, and J. Angelilio-Bent. American Bell ED&D. August 1983.

313. Dewayne E. Perry. TT: Kernel Design and Implementation. Prepared for American Bell ED&D. Pegasus Systems. June 1983.

314. Dewayne E. Perry. TT: Software Architecture. Prepared for American Bell ED&D. Pegasus Systems. July 1983.

315. Dewayne E. Perry. TT: High Level Design of the Operating System. Prepared for American Bell ED&D. Pegasus Systems. July 1983.

316. Dewayne E. Perry. TT: Detailed Design of the Operating System. Prepared for American Bell ED&D. Pegasus Systems. July 1983.

317. Dewayne E. Perry. Functional Specification for the Home Life ESP System. With F. E. Perry. Prepared for Home Life Insurance Co. Pegasus Systems. April 1983.

318. Dewayne E. Perry. File Delivery Design and Implementation. Prepared for American Bell Net 1000. Pegasus Systems. March 1983.

319. Dewayne E. Perry. File Delivery Overview. Prepared for American Bell Net 1000. Pegasus Systems. December 1982.

320. FE Perry and DE Perry. Functional Specification for the Home Life Select Quote System. Prepared for Home Life Insurance Corporation. Pegasus Systems. November 1982.

321. Dewayne E. Perry. Exceptions and Software Quality. Draft. Pegasus Systems. June 1982.

322. Dewayne E. Perry. A Discussion of the Issues for the Demonstration and Performance Monitoring in the Experimental Distributed Processing Facility (EDPF). Prepared for Computer Systems Integration and Operations Division, CENTACS, CORADCOM, Ft Monmouth. Pegasus Systems. December 1981.

323. A. Nico Habermann and Dewayne E. Perry. "Language Issues in Functional Programming". Carnegie-Mellon University. March 1981.

324. Dewayne E. Perry. "A Programmers Taxonomy of I/O Interfaces." Carnegie-Mellon University and Pegasus Systems. February 1981.

325. Dewayne E. Perry. Increased performance in Data Validation. Pegasus Systems. January 1981. Prepared for Dun & Bradstreet, Systems Research and Development.

326. A. Nico Habermann and Dewayne E. Perry. "Well Formed System Composition". Carnegie-Mellon University, Technical Report CMU-CS-80-117. March 1980.

327. Dewayne E. Perry. Deadlock and the Quotron 801 Executive. Pegasus Systems. December 1980. Prepared for Dun & Bradstreet, Systems Research and Development.

328. Dewayne E. Perry. Low Level Language Features in Ada. Carnegie-Mellon University and Pegasus Systems. November 1980. Prepared for the Software Engineering Division, CENTACS, Ft. Monmouth, NJ

329. FE Perry and DE Perry. The Implementation Documentation for the HBJ College Sample System. November 1980. Prepared for Harcourt Brace Jovanovich, Inc.

330. Dewayne E. Perry. Teaching Ada by Example and Modification. Pegasus Systems. April 1980. Prepared for the Software Engineering Division, CENTACS, Ft. Monmouth, NJ. Draft. Not for release.

331. FE Perry and DE Perry. The Detailed Design Specification for the Harcourt Brace Jovanovich, Inc. College Sample System. February 1980. Prepared for Harcourt Brace Jovanovich, Inc. (Revised November 1980)

332. Dewayne E. Perry. Increased Performance for Report Generation. Pegasus Systems. February 1980. Prepared for Dun & Bradstreet, Systems Research and Development.

333. FE Perry and DE Perry Test Plan for the Harcourt Brace Jovanovich, Inc. College Sample System. Pegasus Systems. January 1980. Prepared for Harcourt Brace Jovanovich, Inc

334. Dewayne E. Perry. Incorporating Mapped Memory into the Quotron 801 Executive. Pegasus Systems. December 1979. Prepared for Dun & Bradstreet, Systems Research and Development.

335. FE Perry and DE Perry Functional Specifications of the Harcourt Brace Jovanovich, Inc. College Sample System. Pegasus Systems. October 1979. Prepared for Harcourt Brace Jovanovich, Inc. (Revised November 1980)

336. AN Habermann, DS Notkin and DE Perry. Ada LIRs. Carnegie-Mellon University. September-October 1979. Prepared for the DoD HOLWG.

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338. Dewayne E. Perry. Measurements of Disc Scheduling Algorithms for the Quotron 801 Call In Center. Pegasus Systems. July 1979. Prepared for Dun & Bradstreet, Systems Research and Development, Berkeley Heights, NJ.

339. A. N. Habermann, D. Notkin, and D. E. Perry. "Report on the Use of Ada for the Design and Implementation of Part of Gandalf." Carnegie-Mellon University, Technical Report CMU-CS-79-135. June 1979.

340. Dewayne E. Perry. "High Level Language Features for Handling I/O Devices in Real Time Systems." Ph.D. Dissertation. Stevens Institute of Technology, Castle Point, Hoboken, NJ. May 1978.

341. Dewayne E. Perry. Software Measurements for System Resource Usage in the Quotron 801 Real Time Executive. Pegasus Systems. May 1979. Prepared for Dun & Bradstreet, Systems Research and Development, Berkeley Heights, NJ.

342. Dewayne E. Perry. Disc Scheduling Policies for the Quotron 801 Real Time Executive. Pegasus Systems. May 1979. Prepared for Dun & Bradstreet, Systems Research and Development, Berkeley Heights, NJ.

343. Dewayne E. Perry. Disc Utilization Measurements for the Quotron 801 Real Time Executive. Pegasus Systems. May 1979. Prepared for Dun & Bradstreet, Systems Research and Development, Berkeley Heights, NJ.

344. The Army Language Review Team. Evaluation of the Red and Green Designs. April 1979. Prepared for the DoD HOLWG and the Software Engineering Division, CENTACS, CORADCOM, Ft. Monmouth, NJ.

345. J. Hurler and DE Perry. Natural Language Control. Detailed Design and Implementation. April 1979. Prepared for Vydec, Inc., Florham Park, NJ.

346. Dewayne E. Perry. A Comparison of the Red and Green Languages: A Programming Example. Pegasus Systems. March 1979. Prepared for the Army Language Review Team and the Software Engineering Division, CENTACS, CORADCOM, Ft. Monmouth, NJ.

347. J. Hurler and DE Perry. The Descriptions of the Tables Required by NLC and Their Contents. Pegasus Systems. March 1979. Prepared for Vydec, Inc., Florham Park, NJ.

348. Dewayne E. Perry. BNF Syntax Specification of Natural Language Commands. Pegasus Systems. February 1979. Prepared for Vydec, Inc., Florham Park, NJ.

349. Dewayne E. Perry. The Relationships Between the Software Development Support System (SDSS) and the Military Computer Family (MCF) Target Machines. Pegasus Systems. January 1979. Prepared for the MCF Project, CENTACS, CORADCOM, Ft. Monmouth, NJ.

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352. Dewayne E. Perry. The Functional Requirements Specification, Detailed Design, and Implementation of Changes to Report File Access. Pegasus Systems. August 1978. Prepared for Dun & Bradstreet, Systems Research and Development.

353. Dewayne E. Perry. Task Definition Macros to Generate a Compact Task Table (for the Quotron 801 Executive). User's Guide, Design and Implementation. Pegasus Systems. August 1978. Prepared for Dun & Bradstreet, Systems Research and Development.

354. Dewayne E. Perry. Demand Paging for the Quotron 801 Executive. With Ken Hofer. Pegasus Systems. July 1978. Prepared for Dun & Bradstreet, Systems Research and Development.

355. Dewayne E. Perry. Proposed Disc Performance Measures for the Quotron 801 Executive and the D&B AOS System. Pegasus Systems. July 1978. Prepared for Dun & Bradstreet, Systems Research and Development.

356. Dewayne E. Perry. The Functional Requirements Specification, the Detailed Design, and the Implementation of Changes to Data Validation. Pegasus Systems. June-August 1978. Prepared for Dun & Bradstreet, Systems Research and Development.

357. Dewayne E. Perry. Natural Language Control Functional Specification. Mod III Word Processing System. Section 3. Pegasus Systems. June 1978. (revised February 1979) Prepared for Vydec, Inc., Florham Park, NJ.

358. AN Habermann, DE Perry and D Turner. Notes on the DoD1 Language Host Environment. June 1978.

359. Dewayne E. Perry. The Functional Requirements Specification, The Detailed Design, and the Implementation of Changes to Video Control. Pegasus Systems. May 1978. Prepared for Dun & Bradstreet, Systems Research and Development.

360. Dewayne E. Perry. An Evaluation of Suggested Changes to Improve the Performance of the D&B AOS Minicomputer System. Pegasus Systems. May 1978. Prepared for Dun & Bradstreet, Systems Research and Development.

361. Dewayne E. Perry. The Intrinsic Editor Interface Specification. Mod III Word Processing System. Section 4a. With M. Poulsen. Pegasus Systems. May 1978. Prepared for Vydec Inc., Florham Park, NJ.

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363. Dewayne E. Perry. A Critical Evaluation of Low Level I/O and Machine Dependent Features of the Four Preliminary Language Designs. Pegasus Systems. March 1978. Prepared for the DoD HOLWG.

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370. Dewayne E. Perry. A Detailed Design and Implementation Specification of a Prompted Data Entry System for TOS. Pegasus Systems. December 1975. Prepared for the Software Engineering TEAM, CENTACS, US Army Electronics Command, Ft. Monmouth, NJ.

371. Dewayne E. Perry. An Informal Detailed Program Design Specification for TOS2 Prompting. Pegasus Systems. 15 July 1975. Prepared for the Software Engineering Team, CENTACS, US Army Electronics Command, Ft. Monmouth, NJ.

372. Dewayne E. Perry and James Wagner. The Preliminary Design of a Prompted Data Entry System for TOS. CENTACS Software Report No. 41. 2 Vols. CENTACS, US Army Electronics Command, Ft. Monmouth, NJ. May 1975.

373. Dewayne E. Perry. A Preliminary Design for the TOS2 Prompting System. Pegasus Systems. April 28, 1975. Prepared for the Software Engineering Team, CENTACS, US Army Electronics Command, Fort Monmouth, NJ.

374. Dewayne E. Perry. The Detailed Design and Implementation Specification for the Sigma 5 Message Switch Data Collection Tape Post Processor. An informal report. Pegasus Systems. 1975. Prepared for Dun & Bradstreet, Systems Research and Development.

375. Dewayne E. Perry. The Detailed Design and Implementation Specification for the FORTRAN Programs to Collect Information About the AOS Data Base. An informal report. Pegasus Systems. 1975. Prepared for Dun & Bradstreet, Systems Research and Development.

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377. Dewayne E. Perry. The Functional Specification for the Sigma 5 Message Switch Data Collection Tape Post Processor. Pegasus Systems. 1975. Prepared for Dun & Bradstreet, Systems Research and Development.

378. Dewayne E. Perry. Enhancements to the Quotron 801 Executive Program. Pegasus Systems. 1974. Prepared for Dun & Bradstreet, Systems Research and Development.

379. Dewayne E. Perry. Generalized Reserve, Release, Read and Write Routines for the Report File. Pegasus Systems. 1974. Prepared for Dun & Bradstreet, Systems Research and Development.

380. Dewayne E. Perry. Report File Access. Extensions of its Capabilities and Requests. Pegasus Systems. 1974. Prepared for Dun & Bradstreet, Systems Research and Development.

381. Dewayne E. Perry. Report File Access. Enhancements and Changes to the File Structure. Pegasus Systems. 1974. Prepared for Dun & Bradstreet, Systems Research and Development.

382. Dewayne E. Perry. Increasing Disc Space Utilization in the RFA Subsystem. Pegasus Systems. 1973. Prepared for Dun & Bradstreet, Systems Research and Development.

383. Dewayne E. Perry. How to Use the Quotron 801 Job Step Handler and Sesame Assembler. For the D&B ALO Staff. QSI. 1973.

384. Dewayne E. Perry. The Dial-Up Controller's Bisynchronous Communications Interrupt Handler. QSI. 1973.

385. Dewayne E. Perry. The Training Mode. The Design and Implementation of an ALO Report Entry Automated Training Program. With Jon Snyder. QSI. 1972.

386. Dewayne E. Perry. The Report Copy Utility. The Design and Implementation Specification. QSI. 1972.

387. Dewayne E. Perry. The Dialog File Structure for the D&B ALO System. QSI. 1972.

388. Dewayne E. Perry. The Dialogs Subsystem. The Design and Implementation of Dialog Programs for the Major ALO Functions. QSI. 1972.

389. Dewayne E. Perry. The Display File Structure and a Method for Generating Display Screens for Man/Machine Interfaces. QSI. 1972.

390. Dewayne E. Perry. Report File Access. The Design and Implementation of a Dynamic Data Base Entry, Retrieval and Update System. QSI. 1972.

391. Dewayne E. Perry. Report File Access File Structure. Dun & Bradstreet's ALO System. Quotron Systems Inc. (QSI). 1972.

392. Dewayne E. Perry. Computer Software Reliability. A Study of Methods to Produce Reliable Software and Their Relationship to Hardware Reliability. PRC. 1971.

393. Dewayne E. Perry. The Production of Real Time Software with an Emphasis on Software Reliability. An Annotated Bibliography. PRC. 1971.

394. Dewayne E. Perry. Various Design and Implementation Documents for TACFIRE: The FSE Major Program, The Nuclear Fire Planning Program, and the Nuclear Casualty Damage Assessment Program. PRC. 1968-1971.

395. Dewayne E. Perry. A Marketing and Technological Study of Computer Peripheral Equipment. With Roger Lowe. PRC. 1968.

396. Dewayne E. Perry. Management of the Production of Real-Time Software. An Annotated Bibliography. Planning Research Corporation (PRC). 1967.

397. Dewayne E. Perry. The Computer Automated Secretary Program. System Development Corporation. 1967.

398. Dewayne E. Perry. The ANFS-Q32 Timesharing System Help Program. 1966.

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:

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
  Programming Methodology

- Carnegie-Mellon University, Pittsburgh, PA
  Operating Systems
  Systems Programming (the Operating Systems/Database part)

The University of Texas at Austin – Courses

EE422C, Software Design and Implementation II (in Java)

EE322C, Data Structures in C++

EE360F, Introduction to Software Engineering

ESE382C, Introduction to Software Engineering

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 PhD Dissertations

Rodion Podorozhny, Summer 2004 (Texas State University, San Marcos)
  Artifact-based Functional Comparison of Software Processes
Mark Grechanik, Fall 2006 (University of Illinois, Chicago)
  Design and Analysis of interoperating components
Sutirtha Bhattacharya, Fall 2006 (Intel Corp, Portland OR)
  Architectural Metrics and Evaluation for Component Based Software Systems
Danhua Shao, Summer 2010 (Oracle, Redwood City CA)
  Application of local semantic analysis in fault prediction and detection
Hyrum Wright, Spring 2012 (Google, Pittsburgh PA)

Release Engineering Processes, Their Faults and Failures
Robert Grant, Summer 2012 (Enthought, Austin TX)
Meiru Che, Fall 2014 (UT Austin, Austin TX)
Ripon Saha. February 2016, (Fujitsu Research, CA)

Current PhD Students
Najd Altoyan
Alyas K Mohammed
Svetoslav Ganov
Paul Grisham
Yuqun Zhang

Former PhD Students
Shayne Czyzewski
Jacob Sarvela
Matthew Hawthorne
Enos Jones
Dan Loo
Jette Henderson

Current PhD Committees
Jongwook Kim (CS)

Rui Qiu
Sungmin Cho
Wei-lun Hung

Completed PhD Committees
Divya Gopinath
James Zhang, Summer 2015
Na Meng, Sprint 2014
Guowai Yang, Spring 2014
Razieh Nokhbeh Zaeem, spring 2014
Lingming Zhang, Spring 2014
Zubair Malik, Fall 2013
Baishakhi Ray, Spring 2013
Shounak Roychowdhury, Fall 2013
Juniad Haroon Siddqui, Spring 2012
  Improving Systematic Constraint-driven Analysis using
  Incremental
  and Parallel Techniques
Shadi Khalek, Fall 2011
  Systematic testing using test summaries : effective and
  efficient testing of relational applications
Vasanth Rajamani, Fall 2011
  Understanding query quality in dynamic networks
David DeAngelis , Summer 2011
  Encouraging expert participation in online communities

Seth Holloway, Spring 2011
Simplifying the programming of intelligent environments
Andrew Erich Stovall, Fall 2009
Easing software development for pervasive computing environments
Taesoo Jun, Fall 2009
Chameleon : rapid deployment of adaptive communication-aware applications
Bassem Elkarablieh, Spring 2009
Assertion-based Repair of Complex Data Structures
Engin Unzoncaova, Fall 2008
Efficient Specification-based Testing Using Incremental Techniques
Maria Eva Jump, Fall 2008
Discovering heap anomalies in the wild
Soon-Hyeok Choi, Spring 2008
A software architecture for cross-layer wireless networks
Sanem Kabadayi, Spring 2008
Enabling programmable ubiquitous computing environments: the DAIS middleware
Matthew Tierney MacMahon, Summer 2007
Following natural language route instructions
Nasim Mahmood, Spring 2008
Productivity with performance: property/behavior-based automated composition of parallel programs from self-describing components
Thomas Wahl, Summer 2007
Exploiting replication in automated program verification
Ibraham Ihr, Fall 2006
Performance and Power Optimizations in the Memory Controller
Roberto Lopez-Herrejon, Fall 2006
Understanding Feature Modularity
Rahul Rai, Summer 2006
Qualitative and Quantitative Sequential Sampling
Dung Lam, Fall 2005
Agent Software Comprehension: Explaining Agent Behavior
Andrew Luchkow, Fall 2005
Elgar Conducting His Cello Concerto: Audio and Documentary Evidence of Style Beyond the Score
Fei Xie, Summer 2004
Integration of Model Checking into Software Development Processes
Richard Joseph Cardone, Fall 2002
Language and Compiler Support for Mixin Programming

William Dobra, Summer 2002
    DMA Lecture on contemporary trumpet concertos Thomas
Jeffrey Graser, Spring 2001
    *The Reference Architecture Representation Environment
    (RARE) Systematic Derivation of Object-Oriented Systems*
James Carrell Holt, Spring 2000
    *Evaluation of dynamic properties of software architectures
    using software architecture execution*

Other PhD. Committees

Wendy Liu, University of Toronto, Toronto CANADA. 2009
    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
Derek Morris, Stephens Institute of Technology, 1983

Completed Masters Theses

Nandita Raman, Spring 2012
    Benchmarking Tests on Recovery Oriented Computing
Nabil Qamar, Summer 2011
    *WiFi-Med: Implementation of a Ubiquitous Health Monitoring
    System on an Android Platform*
Meru Che, Spring 2011
    *Scenario-Based Architectural Design Decisions Documentation
    and Evolution*
Vidya Priyadarshini Narayanan, Fall 2009
    *Milao: A novel framework for mixed imperative and declarative
    formulation and solving of structural constraints*
Suchitra S Iyer, Spring 2009
    An Analytical Study of Metrics and Refactoring
Svetoslav Ganov, Spring 2008
    *ArchPad - A Tool for Design and Analysis of Software
    Architecture*
Charles Chen, Spring 2007
    Design and Implementation of WAI-ARIA in Fire Vox
Vidya Lakshmi, Fall 2006
Laurent Hermoye, Spring 2006

    *A Reuse-Based Approach to Security Requirements
    Engineering*
Michael Jester, Summer 2005
    *An Industry Report on Software Process Definition and
    Improvement*

Damien Vanderveken, Spring 2004
Deriving architectural descriptions from goal- oriented
requirements
Divya Jana, Spring 2004
Deriving Architecture Specifications from Goal Oriented
Requirement Specifications
Gianlorenzo Thione, Fall 2003
Detecting Semantic Conflicts in Parallel Changes
Ranjith Purushothaman, Spring 2002
Understanding the Software Development Process by Analysis
of Changed Lines
Jerry Yang, Spring 2002 Manuel Brandozzi, Fall 2002
From Goal Oriented Requirements Specification to
Architectural
Prescriptions

Current Masters Students *Completed Masters Reports*

Spring 2012
Anil Kumar Bondalapati
A Comparative Evaluation of Project Management Tools
for Extreme Programming
Fall 2011
Punit Singh
Usability and productivity metrics for silicon debug
software: A Case Study
Xiaofei Ren
The Case Study: Lean IT Support Team
Fall 2010
Arasi Aravindhan
A Pilot Study of Test Driven Development
Susan Ragaz Brockley
Measuring Customer Contribution to the Agile Software
Development Process: A Case Study
Joshua Dooms
SQL Database Design Static Analysis
Nathin Krishna Nanchari
Austin Logistics Inc - Assessing Defect Density
Roberto Mario Vasquez
A Project Plan for Improving the Performance
Measurement Process - A Usability Case Study
Summer 2009
Nicholas Garcia

Using an Ontology to Define an Enterprise Architecture
Vikrant Satish Gonjare

AUTOTestHarness: An Automated Reflection based GUI Testing Tool

Fall 2008
Rick Dukeshier
Layer-Centric Software Architecture and Design Patterns
Aaron Evans
Extraction and Analysis of Software Architectures at Runtime

Summer 2008
Joseph Villani
Experimental Evaluation of Solid-State Flash Wear-Leveling

Spring 2008
Jason Gomez
Software Estimation Practices In A Small Organization
Hendrik Winata
ScheduleSim: Task Scheduling Simulation
Tony Wolf
State of the Art in Requirements Engineering

Fall 2007
Scott Brookhart
Lean Software Development and Governance Metrics
Patrick Conreaux
Case Study: Efforts in Software Process Improvement Through the Application of Lean Thinking
James Eddleman
Software Map Generation with dot and Forced Hierarchy
Monica Moncrief
Building a web server application, the Hit or Stand Blackjack game, using PHP 5.2.4
Jacqueline Monroe
Elizabeth Restat
Agile at Company X: Interweaving Agile Development Practices and User Centered Design

Fall 2006
Greg Bott
NewSoft Development Process Case Study Focus On Product Stabilization
Pavani Eleswarapu
Evaluation of the Mainline Model as a source control standard for Oracle Development Projects
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UniHex: A Practical Study in the Engineering of a Software Internationalization Tool

Spring 2006
David Alaya

Software Process Improvement for an ATE Test Program Group Through the Implementation of a Process Management System

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Theory of Vector Processing for Vertex Shaders

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Kevin E. Allen
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Mike Crockett
Creating a Software Economy

Aleksandr Kramer
Applying Extreme Programming Techniques for Linux Kernel Development

Barnbas Okoronkwo
Evaluation of Business Intelligence Solutions with emphasis on Business Objects and Cognos

Eduardo Solis
A Case Study in Software Metrics and Root Cause Analysis

James Woods
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Summer 2005

Thersa Jongbum Sohn
Application of Feature-Driven Development to an Internal Software Project

David Skalsky
Organizational Changes to Facilitate the Efficient Development of Interconnected Army Weapon Systems

Fall 2004

Darius Boquin
Contemporary Implementation of the semantic web

Timothy Calhoun
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Reviews/Case Studies in privacy online protection networks

William Feistel
Case Study on quality software engineering processes using sforce.com integration API

Steven Harrison
Software Deployment

Sevak Kalantarians

The Power of Software Process

Jonathan Samn
The "Fun"damentals of the Software Development Life Cycle

Spring 2003

Peter Kasmir
Enterprise Software Deployment and Maintenance

Elliot Rapp
Implementation of a Cross Platform DOM Parser in LabVIEW

Terry Thomas
Improving Test Efficiency and Effectiveness

Fall 2002

Jessica Anderson
System Maintenance, Management and Support: A Case Study of Del Mar College

Pankaj Bhakta
Smart Inn

Durbin Black
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Wendy Fleming
Architecture and Preliminary Design of Online English Education Software System for Chinese Speakers

Boyd Gerber
Name Resolution for Enhanced Server Message Block/Common Internet File System with a Multi-homed Environment

Leticia Herrera
Media Verification Reports Automation

Ravi Kurupati
Java Platform Debugger Architecture: Automate Remote Debugging

David Randall
Futurenet Scheduling Solution - from Start to Finish

Razak Saquib
Wireless Network Security with SEP

Paul Schroeder
Developing an Embedded Linux System

Findley Shearer
Mobile Internet

Mehul Dilip Schroff
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Adrian Tillet
Performance Characteristics in JINI Network Technology
Huy Tra
Design and Implementation of Voice over Internet Protocol for Business and Residence
Jorge Vargas
Flexible Forecasting
Ariel Zuniga
Secure Code Information Systems

Spring 2002
Jinming Cao
PC System Chipset (North Bridge + South Bridge) -- Introduction, Architecture, and Analysis
Angela McDonald Cody
Enterprise Web Application Development With the JavaTM 2 Platform, Enterprise Edition
Christopher Matthew Hamilton
Developments in Software Architecture, Architecture Styles, and Product Line Architectures
Matthew Jerry Hawthorne
Developments in Software Architecture, Architecture Styles, and Product Line Architectures
Atif Saeed
Type Genericity in JAVA Using JAVA Reflection
Abu Sanaullah
Strategies for Developing a Software Export Sector in Developing Countries
Sachin Washawan
Web Services for Nonprofit Organizations

Fall 2001
Vijaya Balakrishna
Webservices and Their Emergence as an E-Business Tool
Muhammad Ali Bawany
A Study of E-Commerce Transaction Security With Emphasis on the Internet Open Trading Protocol
Henry Prempeh Gbedemah
Evaluation and Implementation of a JINI Service
Rishikesh Prabhakar Ghare
Mapping JAVASM to a UML Metamodel
Sandra Elaine Gomez
Evaluation of COTS Software in the Design of a DOD Multi- Platform Automated Test and Measurement System
Victor Manuel Gonzalez

Giang Chau Nguyen
Technical Aspects of E-Commerce

<u>*Undergraduate Honors Thesis*</u>

Jeffrey Yaskin, Spring 2005