

Résumé

DAVID A. DAMPIER

Personal

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Citizenship: US

Education

Ph.D.: Computer Science, Naval Postgraduate School, 1994
M.S.: Computer Science, Naval Postgraduate School, 1990
B.S.: Mathematics, University of Texas at El Paso, 1984

Training

New Technologies, Inc., Basic Computer Forensics Training Course, March 2002.
New Technologies, Inc., NTFS Computer Forensics Training Course, March 2002.
Access Data Forensics Toolkit Bootcamp, December 2005.
Access Data Windows Forensics Investigation, December 2005.
Paraben Small Device Forensics Investigation, March 2007.

Employment

Mississippi State University, 2000-present
-Associate Professor, 2006-present
-Director, Southeast Region Forensics Training Center, 2005-present
-Coordinator of Undergraduate Programs, 2004-2007
-Assistant Professor, 2000-2006
U.S. Army Officer, 1984-00
-Professor of Systems Management, 1997-00
-Software Engineer, Army Research Laboratory, 1994-97
-Acquisition & Automation Systems Officer, 1991-94
-Missile Materiel Officer, 1984-91

Areas of Teaching and Research Specialization

Digital Forensics, Information Assurance, Software Engineering, Software Evolution, Software Slicing, Merging and Integration, Rapid Prototyping, Software Engineering for High Performance Computing, Intrusion Detection

Publications

Book Chapters

Dampier, D. and A. Bogen, "Digital Forensics", *Enterprise Information Systems Assurance and System Security: Managerial and Technical Issue*, **March 2006**.

Dampier, D. and A. Siraj, "Intrusion Detection and Response", *Enterprise Information Systems Assurance and System Security: Managerial and Technical Issue*, **March 2006**.

Dampier, D. and Vaughn, R. "Is Your Employer Unknowingly Contributing to Identity Theft?" in Chapter 6 "Disgraceful Education" (Contributing Authors), *Who is You? The Coming Epidemic of Identity Theft*, S. Schmidt and M. McCoy, The Consortium, ISBN 0-9773260-0-4, 2005

Refereed Journal Papers

Bogen, A. and D. Dampier, "Modeling Evidence Recovery from Digital Media," *Journal of Naval Science and Engineering*, Vol. 3, Num. 1, January 2005, pp. 1-10.

Dampier, D., and V. Chadha, "Change-Merging of PSDL Abstract Data Types," *Transactions of the Society for Design & Process Science*, December 2003.

Dampier, D., and R. Vaughn, "The Use of Intrusion Detection in Securing Information Assets," *World Market Series Business Briefing – Global Information Security*, World Markets Research Centre, London, England, July 2002, pp. 38-43.

Vaughn, R., A. Siraj, and D. Dampier, "Information Security System Rating and Ranking," *CROSSTALK, The Journal of Defense Software Engineering*, May 2002, pp. 30-32.

Vaughn, R. and D. Dampier, "Just What is Intrusion Detection and How Do You Use It?," *World Market Series Business Briefing-Global Information Security*, World Markets Research Centre, London, England, December 2001.

Cooke, D., and D. Dampier, "A Real-Time Version of SequenceL," *Annals of Software Engineering*, Vol. 7, 1999, pp. 157-176.

Berzins, V., and D. Dampier, "Software Merge: Combining Changes to Decompositions," *Journal of Systems Integration - Special Issue on CAPS*, Vol. 6, No. 2, 1996, pp. 135-150.

Dampier, D., Luqi, and V. Berzins, "Automated Merging of Software Prototypes," *Journal of Systems Integration*, Vol. 4, No. 1, January 1994, pp. 33-49.

Refereed Conference Papers

Bogen, A., D. Dampier, and J. Carver, "Domain Modeling in Computer Forensics Examination: An Empirical Study", Proceedings of the 2007 Hawaii International Conference on the System Sciences, Minitrack on Digital Forensics, Waikoloa, Hawaii, January 3-7, 2007.

Vaughn, R. and D. Dampier, "The Development of a University-based Forensics Training Center as a Regional Outreach and Service Activity", Proceedings of the 2007 Hawaii International Conference on the System Sciences, Minitrack on Digital Forensics, Waikoloa, Hawaii, January 3-7, 2007.

Bogen, A. and D. Dampier, "A Software Engineering Modeling Approach to Computer Forensics Examination Planning," Proceedings of the First International Workshop on Systematic Approaches to Digital Forensic Engineering (SADFE 2005), Taipei, Taiwan, November 7-10, 2005.

Bogen, A. and D. Dampier, "Preparing for Large-Scale Investigations with Case Domain Modeling," Proceedings of the 2005 Digital Forensics Research Workshop (DFRWS), New Orleans, LA, August 17-19, 2005.

Cantrell, G. and D. Dampier, "Hiding Data through FAT 32 Boot Sector Manipulation," Proceedings of the 1st Annual IFIP Conference on Digital Forensics, Orlando, FL, February 13-16, 2005.

Dampier, D., "Integrating Practical Problem-Solving into Software Engineering Education," Proceedings of the UM-Dearborn Conference on Integrating Practice into Engineering Education, Dearborn, MI, October 3-5, 2004.

Vaughn, R., D. Dampier, and M. Warkentin, "Building an Information Security Education Program," Proceedings of The 2004 Information Security Curriculum Development Conference, Kennesaw, Georgia, September 17- 18, 2004.

Bogen, A. and D. Dampier, "Knowledge Discovery and Experience Modeling in Computer Forensics Media Analysis," Proceedings of the 3rd International Symposium on Information and Communication Technologies, June 16-18, 2004, Las Vegas, NV.

Cantrell, G. and D. Dampier, "Experiments In Hiding Data Inside the File Structure of Common Office Documents: A Stegonography Application," Proceedings of the 3rd International Symposium on Information and Communication Technologies, June 16-18, 2004, Las Vegas, NV.

Dampier, D., "BSSE at MSU: The First Accredited Software Engineering Bachelor's Degree in a Public University," Proceedings of the 2004 ASEE SE Conference, Auburn, AL, April 4-6, 2004.

Dampier, D., and G. Li, "A Web Application for Maintaining Web Consistency," Proceedings of the 33rd International Computers in Industrial Engineering Conference, Jeju, Korea, March 24 – 27, 2004

Dampier, D., and T. Philip, "Using Software Engineering Classes to Support K-12 Education," *Proceedings of the 2003 ASEE Southeastern Conference*, Macon, GA, April 6-8, 2003.

Dampier, D., "Teaching Practical Problem-Solving in Software Engineering Through Industrial Experience," *Proceedings of the 2002 ASEE SE Conference*, Gainesville, FL, April 7-9, 2002.

Dampier, D., and V. Chadha, "Change-Merging PSDL Abstract Data Types," *Proceedings of the 2001 Monterey Workshop on Engineering Automation for Software Intensive System Integration*, Monterey, CA, June 2001.

Wilson, R., and D. Dampier, "The Link Between Software Engineering and Scientific Method," *Proceedings of the Fifth World Conference on Integrated Design and Process Technology*, Dallas, TX, June 2000, p.32 (CD).

Dampier, D., "Rapid Prototyping and System Evolution," *Proceedings of the 2nd World Conference on Integrated Design & Process Technology*, Austin, TX, December 1996, pp. 400-406.

Dampier, D., R. Byrnes, M. Kindl, and Luqi, "Rapid Prototyping of Army Embedded Software Systems," *Proceedings of the Seventh Software Technology Conference*, Salt Lake City, UT, April 1995, CD.

Luqi, J. Goguen, V. Berzins, and D. Dampier, "Engineering Support for Software Evolution," *Proceedings of the Computers in Engineering Symposium (ASME 1995)*, Houston, TX, January 1995, pp. 161-172.

Dampier, D., V. Berzins, Luqi, M. Shing, D. Dolk, and C. Rasmussen, "A Slicing Method for Semantics-Based Change-Merging of Software Prototypes," *Proceedings of the Computers in Engineering Symposium (ASME 1995)*, Houston, TX, January 1995, pp. 87-92.

Dampier, D., R. Byrnes, and M. Kindl, "Computer-Aided Maintenance for Embedded Real-Time Software," *Proceedings of the 19th Army Science Conference*, Orlando, FL, June 1994, p. 163.

Non-Refereed Conference Papers

Dampier, D., "Web Parsing for Maintaining Consistency," *Fourteenth Annual Software Technology Conference*, Salt Lake City, April 28-May 2, 2002.

Vaughn, R., and D. Dampier, "A Report on the Software Engineering BS Degree - One of the First!," *Proceedings of the Thirteenth Annual Software Technology Conference*, Salt Lake City, UT, April 29 – May 4, 2001 (on CD).

Hamaker, J., and D. Dampier, "Web Engineering: Convergence and Software Engineering," *Proceedings of the Thirteenth Annual Software Technology Conference*, Salt Lake City, UT, April 29 – May 4, 2001 (on CD).

Dampier, D., "Rapid Prototyping and System Evolution," *Tenth Software Technology Conference*, Salt Lake City, UT, May 1998.

Dampier, D., and C. Forest, "Advanced Software Technology for Affordability Program," *Ninth Software Technology Conference*, Salt Lake City, UT, April 1997.

Workshops

Dampier, D., and R. Wilson, "Teaching Scientific Method for Real-Time Software Engineering," *Proceedings of the CSEET '00 Real Time Workshop*, Austin, TX, March 2000, p. 1999.

Dampier, D., and Luqi, "Automated Software Maintenance Using Comprehension and Specification," *CSM-92 Program Comprehension Workshop Notes*, November 1992, pp. 24-26.

Presentations

Refereed Conferences

Dampier, D., "Rapid Prototyping and Incremental Evolution," *Proceedings of the 1997 Monterey Workshop on Increasing the Impact of Formal Methods for Computer-Aided Software Development: Requirements Targeting Software and Systems Engineering*, Bernried, Germany, October 1997.

Dampier, D., and R. Byrnes, "Specification Merging for Software Architectures," *Proceedings of the 1995 Monterey Workshop on Increasing the Impact of Formal Methods for Computer-Aided Software Development: Building Software with Specification Based Components*, Naval Postgraduate School, September 1995, pp.71-74.

Dampier, D., and V. Berzins, "Software Change - Merging in Dynamic Evolution," *Proceedings of the 1994 Monterey Workshop on Increasing the Impact of Formal Methods for Computer-Aided Software Development: Evolution Control for Large Software Systems*, Naval Postgraduate School, September 1994.

Dampier, D., and V. Berzins, "A Slicing Method for Semantic-Based Merging of Software Prototypes," *Proceedings of the 1993 Monterey Workshop on Increasing the Impact of Formal Methods for Computer-Aided Software Development: Software Slicing, Merging and Integration*, Naval Postgraduate School, October 1993, pp. 22-24.

Invited Lectures

Invited Talks (International)

- Digital Forensics Research, August 31, 2005, Kyoto University, Kyoto, Japan
- A Software Engineering Undergraduate Degree at Mississippi State University, August 29, 2005, Japanese Accreditation Board on Engineering Education, Tokyo, Japan
- E-Commerce Security, March 22, 2004, Pohang Institute of Technology, Pohang, Korea
- Computer Forensics, March 23, 2004, Pohang Institute of Technology, Pohang, Korea

Invited Talks (National)

- Training Opportunities in Digital Forensics, October 2007, Golden Triangle Law Enforcement Association, Columbus, MS
- Digital Forensics, April 25, 2007, National Association of Attorneys General Prosecutor's Training, Oxford, MS
- A Cooperative University/Government Computer Forensics Training Effort, October 25, 2006, Mississippi Judicial College, Philadelphia, MS.
- Building a Government-University Cooperative Digital Forensics Program, October 10, 2006, Starkville Women's Club, Starkville, MS.
- Digital Forensics, July 4, 2006, International Association of Identification Specialists, Boston, MA.
- Developing a Computer Forensics Program, April 29, 2005, Depaul University, Chicago, IL
- Information and Computer Security, March 17, 2005, Tougaloo College, Jackson, MS
- MSU's Cyber Crime Center, February 21, 2005, Civitan International, Starkville, MS

- Digital Forensics, February 17, 2005, Mississippi Hospital Association, Jackson, MS
- Options for Using Technology in the Classroom, March 6, 2003, Mississippi State University, Starkville, MS
- Automated Software Evolution, November 17, 2000, University of Alabama at Birmingham, Birmingham, AL
- Role of Logic in Software Engineering, Software Engineering Doctoral Program, Naval Postgraduate School, October 1999.
- A Formal Method for Semantics-Based Change - Merging of Software Prototypes, Computer Science Department, University of Texas at El Paso, July 1994.

Workshops

- Introduction to Computer Forensics, October 21-22, 2004, University of Mississippi Medical Center, Jackson, MS
- Introduction to Computer Forensics, August 3-5, 2004, Mississippi State University, Starkville, MS
- Introduction to Computer Forensics, June 23-24, 2004, Mississippi State University Information Assurance Workshop for Underrepresented Groups, Starkville, MS

University Service

- Mississippi State University Faculty Senate, 2007 - Present
- Coordinator of Undergraduate Programs, Department of Computer Science and Engineering, 2004-2007
- Search Committee, Director of Continuing Education and Academic Outreach, 2004
- Search Committee, Associate Dean of the College of Engineering for Academic Affairs, 2005
- Engineering College Faculty Council, 2002-2005
- Computer Science & Engineering Graduate Coordinating Committee, 2003
- Engineering College Courses and Curricula Committee, 2002-2004
- Computer Science & Engineering Graduate Studies Committee, 2001-2002
- Computer Science & Engineering Courses and Curricula Committee, 2000-2004
 - Chair, 2002-2004
- Computer Science & Engineering Scholarships and Fellowships Committee, 2001-2002
 - Chair, 2001-2002
- Software Engineering Undergraduate Studies Committee, 2001-2002, 2003-Present
 - Chair, 2004-Present
- Computer Science Undergraduate Studies Committee, 2004-Present
 - Chair, 2004-Present
- Computer Engineering Steering Committee, 2004-Present
- Chair – Ad Hoc Committee on Software Engineering Recruiting, 2001

- Chair – Ad Hoc Committee on Distance Learning Alternatives, 2002
- Advisor to Student Chapter of the Association for Computing Machinery, 2004 - present
- Coach, Intercollegiate Programming Competition Teams in 2002, 2003, 2004
 - Regional Champions, 2002
- Mentor, Pre-Engineering Students, 2003-2007
- Mentor, Computer Science, Engineering and Mathematics (CSEM) Scholars Program
- Advisor, Bulldog Taekwondo Club

Students Advised

Ph.D. students advised (with title and date of dissertation if graduated):

Bogen, Alfred C., Selecting Keyword Search Terms in Computer Forensics Examinations with Domain Analysis and Modeling, December 2006.

Tanner, April, current

Stinson, James, current

Cohoon, Jansen, current

Master's students advised (with title and date of thesis or project if graduated):

Bhargav, Marpuri, August 2003, CPE Course only

Biruduraju, Lakshmi, May 2002, CPE Course only

Bogen, Alfred C., May 2002, "Constructing a Lab Manual for Software Engineering I"

Cantrell, Gary, May 2004, "Introduction to Computer Crime and Forensics Lab Manual Creation, Analysis and Revision"

Chadha, Vineet, March 2002, "Automated Evolution of Abstract Data Types"

Coleman, Allen, December 2003, "Development of a Website for the Software Engineering I Lab"

Dandu, Kiram Kumar, May 2003, "FRAS: A Software Package for Monitoring Fisheries"

Dhandapani, Mangayarkarasi, August 2003, "Performance Evaluation of High Performance Parallel IO"

Divyakolu, Srinivasa, December 2002, "Simulation of a SCADA System"

Durvusala, Shravan Kumar, August 2003, "Remote File Browser"

Duzan, Emily, December 2003, "Automated Science Fair Judging using PDAs"

Elliott, Robert, December 2003, "A Complete Hardware and Software System Migration of Alcorn State University's Student Debit Card System"

Evans, Deland, May 2005, CSE Course only

Fagan, Robert, May 2005, CSE Course only

Fox, Shea, December 2003, "RedHerring"

Johnson, Lora, current

Johnson, Willie, August 2005, CSE Course only

Kolluri, Megha S., August 2003, "Evaluation of a Business Process Execution Language for Web Services to Implement Web Services-Based Overflow"

Kundurthi, Praveen, February 2002, CPE Course Only

Leathen, August 2003, CPE Course Only

Li, Gan, May 2004, CSE Course Only

Liao, Wenyan, May 2003, "Design and Implementation for an Efficient Higher Order Algorithm for Solving Reaction-Diffusion Equations"

Martin, Denise, May 2004, "THE USACE DATANET - PROVIDING EFFICIENT DATA ACCESS THROUGH A NET-CENTRIC FRAMEWORK"
Mehta, Darshan, December 2003, "Automated Science & Engineering Fair Judging using PDAs"
Mittipalli, Vamshi, May 2004, CPE Course only
Monceaux, Weston, May 2005, CSE Course only
Prasad, Shiva, May 2003, "Secure Portal to Portal Communication Using Web Services"
Rutledge, Michael, May 2004, "Malicious Data Harvesting Using Publicly Auctioned Hard Drives"
Shepherd, Shaun, August 2006, CSE Course Only
Srirangan, Ravi, December 2004, CSE Course only
Surakanti, Geeta, May 2004, CSE Course only
Tanner, April, December 2005, "The Forensic Analysis of Hard Drive Wiping Tools During Disk Sanitization"
Venkatesh, Vikram, December 2004, CSE Course only
Wang, Cheng, August 2002, "An Implementation for Combining Changes to Software Decompositions"
Yuan, Hong, August 2004, CSE Course only

Courses Taught

CSE 3212/3222 Software Engineering Senior Design I & II
CSE 4213/6213 Software Engineering I
CSE 4224/6224 Software Engineering II
CSE 4221/6221 Software Engineering Laboratory
CSE 4243/6243 Information and Computer Security
CSE 4273/6273 Introduction to Computer Crime & Forensics
CSE 4283/6283 Software Quality Assurance & Testing
CSE 4833 Introduction to Analysis of Algorithms
CSE 8243 Software Specifications
CSE 8823 Combinatorics & Graph Theory
CSE 8993 Special Topics in Computer Science (Software Merging and Slicing)
CSE 8993 Special Topics in Computer Science (Software Evolution)
CSE 8993 Special Topics in Computer Science (Rapid Prototyping)
CSE 8993 Special Topics in Computer Science (Advanced Digital Forensics)
CSE 8993 Special Topics in Computer Science (Forensics Tools and Techniques)
CSE 9253 Topics in Software Engineering (Software Process Improvement)