

Curriculum Vitae

DAVID A. DAMPIER

Personal

Home Address: 221 Cathy's Pond Road, Starkville, MS 39759
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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

Employment

Mississippi State University, 2000-present
-Director, Distributed Analytics and Security Institute, 2014-present
-Professor, 2012-present
-Director, Center for Computer Security Research, 2011-present
-Associate Professor, 2006-2012
-Director, National Forensics Training Center, 2005-present
-Coordinator of Undergraduate Education, 2004-2007
-Assistant Professor, 2000-2006
U.S. Army, 1977-2000
-Professor of Systems Management, 1997-00
-Software Engineer, Army Research Laboratory, 1994-97
-Acquisition & Automation Systems Officer, 1991-94
-Missile Materiel Officer, 1984-91
-ROTC Cadet, 1981-84
-Soldier, 1977-81

Expert Testimony

Court Testimony
State of Mississippi vs. Leslie Sharp (retrial), Oktibbeha County, MS, September 2011
State of Mississippi vs. Leslie Sharp, Oktibbeha County, MS, May 2011
MissEaton vs. Innovation, Lee County Circuit Court, MS, November 2009
Boatwright vs. Boatwright, Marshall County, MS, February 2009
Deposition Testimony
Nicole March vs. Best Buy, Birmingham, AL, February 2015
J.T. Shannon vs. Gilco, Lowndes County, December 2009

Professional Activities

Professional Service

Editorial Board, Journal of Digital Forensics, Security and the Law
Section Editor for Cyber Security, 2011 – Present
International Society of Forensic Computer Examiners (ISFCE)
Certification Board, 2010 – 2013
American Society of Digital Forensics and eDiscovery (ASDFED)
Board of Directors, 2009 – Present – Chairman of the Board – 2012

Accreditation Board for Engineering and Technology (ABET)
Program Evaluator, 2012 – Present: Computer Science and Software Engineering
Mississippi Infragard Member Alliance
Board of Directors, 2005 – 2012
Phi Kappa Phi MSU Chapter
Vice-President – 2014 - present
Secretary – 2012 - 2014

Society Memberships

Association for Computing Machinery
Senior Member, 2014 – Present
Advisor, Student Chapter at MSU, 2004 - Present
Association for Digital Forensics, Security, and the Law
American Society of Digital Forensics and eDiscovery
American Society for Engineering Education
Southeastern Section
Chair, Software Engineering Division, 2003-2005
Secretary, Instructional Division, 2005-2006
IFIP Working Group on Digital Forensics 11.9
Society for Software Engineering (founding member)
Society for Design and Process Science (founding member)

Reviewer

Program Chair, 2016 Conference on Systematic Approaches to Digital Forensic Engineering,
Kyoto, Japan.
Program Evaluator, Computer Science, Accreditation Board for Engineering and Technology
(ABET), 2013 - Present
Program Evaluator, Software Engineering, Accreditation Board for Engineering and Technology
(ABET), 2012 - Present
National Science Foundation Reviewer 2001/2010/2013
Program Committee, 2010/11/12/13/14 High Assurance Software Engineering Symposium
Program Committee, 2007 World Conference on Integrated Design and Process Technology
Program Committee, 2007/8/9/10/11/12/13 International Workshop on Systematic Approaches to
Digital Forensics Engineering
Co-Mini-Track Chair of the 2007/8/9/10 Hawaii International Conference on System Sciences
(HICSS) Minitrack on Digital Forensics
Panel Organizer, Digital Forensics Panel at the 2006 National Colloquium on Information
Systems Security Education (NCISSE)
Program Committee of the 2004 International Conference on Parallel-Distributed Systems
Program Committee, 12th, 13th, and 14th International Rapid Prototyping Workshop
Session Chair, 5th World Conference on Integrated Design and Process Technology
Vice Program Chair, 3rd World Conference on Integrated Design and Process Technology
Vice Program Chair, International Conference on Tools with Artificial Intelligence
Track Moderator, Eighth Software Technology Conference
Session Chair, Twelfth International Conference on Data Engineering
Session Chair, Computers in Engineering Symposium
Co-Program Chair, 1993 Monterey Workshop on Increasing the Impact of Formal Methods on
Computer-Aided Software Development: Software Slicing

Member of Authoring Committee for Software Engineering Body of Knowledge (SWEBOK 2000-2001)

Member of Authoring Committee for IEEE-CS/ACM Curriculum 2001

Consultant

University of Texas at Tyler, Office of Research and Economic Development, 2010 – 2012

Awards and Honors

ACM Senior Member, 2014

ASEE-SE, Outstanding Teaching Award, 2014

Phi Kappa Phi Honor Society, 2011

Bagley College of Engineering Academy of Distinguished Teachers, 2011

Bagley College of Engineering Service Award, 2011

MSU State Pride Faculty Award, 2010

Hearin Faculty Excellence Award, 2010 & 2011

MSU Academic Leadership Program, 2009-2010

ASEE-SE, New Faculty of the Year, 2003

Upsilon Pi Epsilon, Spring 2001

Army Research Laboratory Research Excellence Award, July 1997

Army Research Laboratory Scientific Achievement Award, November 1995

Army Research Laboratory Scientific Achievement Award, December 1994

Best Technical Paper in Session, Knowledge Based Computing Systems Session, 19th Army Science Conference, June 1994

Areas of Teaching and Research Specialization

Computer Forensics, Digital Forensics, Computer Security, Software Engineering, Software Evolution, Software Slicing, Merging and Integration, Rapid Prototyping, Software Engineering for High Performance Computing, Intrusion Detection, Computer Science Education

Grants and Contracts

To date at Mississippi State University, Dr. David Dampier has been PI or Co-PI on 37 grants, totaling over \$46 Million.

Publications (*Italicized Author Names* are students advised by David Dampier)

Books

1. *Dancer, F.* and **D. Dampier**, *A Platform Independent Forensic Process Model for Smartphones*, Scholars Press, 2013.
2. *Tanner, A.* and **D. Dampier**, *Digital Forensic Investigations Visualized: Using Conceptual Mapping for Case Management*, Lambert Academic Publishing, 2011.

Book Chapters

1. *Glendowne, D., C. Miller, R. McGrew,* and **D. Dampier**, "Towards a Feature Set for Classifying Malicious DLLs in Windows Memory," *Advances in Digital Forensics XI*, **2015**.
2. *Cantrell, G.* and **D. Dampier**, "Evaluation of the Semi-Automated Crime-Specific Digital Triage Process Model," *Advances in Digital Forensics IX*, **2013**.

3. *Tanner, A. and D. Dampier, "Concept Mapping for Digital Forensics Investigations," Advances in Digital Forensics V, 2009.*
4. *Riley, J., D. Dampier, and R. Vaughn, "Time Analysis of Hard Drive Imaging Tools," Advances in Digital Forensics IV, 2008.*
5. *Dampier, D. and A. Bogen, "Digital Forensics", Enterprise Information Systems Assurance and System Security: Managerial and Technical Issue, 2006.*
6. *Dampier, D. and A. Siraj, "Intrusion Detection and Response", Enterprise Information Systems Assurance and System Security: Managerial and Technical Issue, 2006.*
7. *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

1. *Dampier, D. and K. Blaylock, "Cyber Security Education and Training through the Distributed Analytics and Security Institute," ECE Source, ECEDHA, November 2015.*
2. *Miller, C., D. Glendowne, D. Dampier, and K. Blaylock, "Forensiccloud: An Architecture for Digital Forensics Analysis in the Cloud," Journal of Cyber Security and Mobility, Vol. 3, Num. 3, July 2014, pp. 231-262.*
3. *Kelly, K., D. Dampier, and K. Carr, "Willing, Able, and Unwanted: High School Girls' Potential Selves in Computing," Journal of Women and Minorities in Science and Engineering, Vol. 19, Num. 1, 2013, pp. 67-85.*
4. *Cantrell, G., D. Dampier, Y. Dandass, N. Niu, and C. Bogen, "Implementing the Automated Phases of the Partially-Automated Digital Triage Process Model," Journal of Digital Forensics, Security, and the Law, Vol. 7, Num. 4, 2013.*
5. *Cantrell, G., D. Dampier, Y. Dandass, N. Niu, and C. Bogen, "Research Toward a Partially-automated, and Crime Specific Digital Triage Process Model," Computer and Information Science, Volume 5, 2012, pp. 29-38.*
6. *Tanner, A. and D. Dampier, "Developing a Domain Modeling Approach for Digital Forensic Examinations," Innovations 2011, INEER, August 2011.*
7. *Tanner, A. and D. Dampier, "An Approach for Managing Knowledge in Digital Forensics Examinations," International Journal of Computer Science and Security, Computer Science Journals, Vol. 4, Issue 5, December 2010 pp. 451-465.*
8. *Dancer, F. and D. Dampier, "Refining the Digital Device Hierarchy," Journal of the Mississippi Academy of Sciences, vol. 55, no. 4, October 2010.*

9. *Bogen, A., D. Dampier, R. Vaughn, J. Carver, E. Allen, and D. Reese, "Structured Forensics Examination Planning with Domain Modeling: A Report of Three Experiment Trials," Journal of Digital Forensics Practice, Vol. 3, Issue 1, March 2010, pp. 23-32.*
10. *Vaughn, R. and D. Dampier, "Outreach, Teaching and Research Facilitated by a Forensics Training Center in Direct Support of Public Safety and Criminal Justice," International Journal of Computers and their Applications (IJCA), Vol.16, Num. 2, June 2009, 105-110.*
11. *Vaughn, R. and D. Dampier, "A University-based Forensics Training Center as a Regional Outreach, Education, and Research activity," Journal of Systemics, Cybernetics, and Informatics, Vol. 7, Num. 2, 2009, pp. 23-28.*
12. *Dampier, D. and J. Cohoon, "Educating Tomorrow's Digital Forensics Examiners", Innovations 2008, INEER, July 2008, pp. 273-282.*
13. *Riley, J., D. Dampier, and R. Vaughn, "A Comparison of Forensic Hard Drive Imagers: A Time Analysis Comparison Between the ICS Image MASSter-Solo III and the Logicube Talon", Journal of Digital Forensics Practice, Vol. 2, Issue 2, April 2008, pp.74-82.*
14. *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.*
15. *Dampier, D., and V. Chadha, "Change-Merging of PSDL Abstract Data Types," Transactions of the Society for Design & Process Science, December 2003.*
16. *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.*
17. *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.*
18. *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.*
19. *Cooke, D., and D. Dampier, "A Real-Time Version of SequenceL," Annals of Software Engineering, Vol. 7, 1999, pp. 157-176.*
20. *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.*
21. *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

1. *Dampier, D., "Building a Successful Cyber-Security Program," Proceedings of the 7th Annual Southeastern Cyber Security Summit, Huntsville, AL, June 3-4, 2015.*

2. *Glendowne, D., C. Miller, R. McGrew, and D. Dampier, "Towards a Feature Set for Classifying Malicious DLLs in Windows Memory," Proceedings of the IFIP Working Group 11.9 Conference on Digital Forensics, Orlando, FL, January 2015.*
3. *Cantrell, G. and D. Dampier, "Evaluation of the Semi-Automated Crime-Specific Digital Triage Process Model," Proceedings of the 9th IFIP International Conference on Digital Forensics, Orlando, FL, January 28-30, 2013.*
4. *Tanner, A., D. Dampier, and J. Thomson, "On Developing A Conceptual Modeling Report Management Tool for Digital Forensic Investigations," Proceedings of the IEEE International Conference on Technologies for Homeland Security, November 13-15, 2012, Waltham, MA.*
5. *Dancer, F., D. Dampier, J. Jackson, and N. Meghanathan, "A Theoretical Process Model for Smartphones," Proceedings: 2012 Second International Conference on Artificial Intelligence, Soft Computing and Applications, Chennai, India, 13-15, July 2012.*
6. *Dampier, D., K. Blaylock, and R. McGrew, "Digital Forensics Workforce Training for Wounded Warriors," Proceedings of the 2012 ASEE-SE Conference, Mississippi State University, April 1-3, 2012.*
7. *D. Dampier, K. Kelly, and K. Carr, "Increasing Participation of Women in Cyber Security," Proceedings of the 2012 ASEE-SE Conference, Mississippi State University, April 1-3, 2012.*
8. *Kelly, K., D. Dampier, and K. Carr, "Envisioning Gendered Possible Selves: Adolescent Girls' Perceptions of Gender Inequities in STEM Fields," Proceedings of the 2012 Southern Sociological Society Meeting, New Orleans, LA, March 2012.*
9. *Kelly, K., D. Dampier, and K. Carr, "Adolescent Girls and (Gendered) Possible Selves in Computer Science," Proceedings of the Alabama-Mississippi Sociological Society Meetings, Starkville, MS, February 2012.*
10. *Kelly, K., D. Dampier, and K. Carr, "Adolescent Girls and (Gendered) Possible Selves in Computer Science," Proceedings of the Sociologists for Women in Society Winter Meetings, St. Petersburg, FL, February 2012.*
11. *Akers, P., R. McGrew, and D. Dampier, "WiFi Stakeout: A Network Forensics Tool for Reconnaissance and First Responders," Proceedings of the 2011 International Conference on Engineering and Industry (ICEI 2011), Jeju, Korea, November 29, 2011 to December 2, 2011.*
12. *Dancer, F. and D. Dampier, "A Platform Independent Process Model for Smartphones Based on Invariants," Proceedings of the Fifth International Workshop on Systematic Approaches to Digital Forensic Engineering (SADFE 2010), Oakland, CA, May 20, 2010.*
13. *Davis, J., J. MacLean, and D. Dampier, "Methods of Information Hiding and Detection in File Systems," Proceedings of the Fifth International Workshop on Systematic Approaches to Digital Forensic Engineering (SADFE 2010), Oakland, CA, May 20, 2010.*
14. *Dampier, D. and R. Vaughn, "Hands-On Discovery Learning in Computer Security and Forensics," Proceedings of the 2009 International Conference on Engineering Education and Research (ICEER), Seoul, Korea, August 25-28, 2009.*

15. Schmidt, M., **D. Dampier**, and D. Guster, "A Multi-University Resource Allocation Approach to Provide Computer Forensics Education to Law Enforcement Agents," *Proceedings of the 8th Annual Security Conference*, Las Vegas, NV, April 15-16, 2009.
16. Tanner, A. and **D. Dampier**, "Improving Digital Forensics Investigations with Concept Mapping," *Proceedings of the 2009 IFIP Working Group 11.9 on Digital Forensics Conference*, Orlando, FL, January 25-28, 2009. (Acceptance rate 25-30%)
17. Vaughn, R. and **D. Dampier**, "A Discovery Learning Approach to Information Assurance Education", *Proceedings of the 2009 Hawaii International Conference on the System Sciences, Minitrack on Digital Forensics*, Waikoloa, Hawaii, January 5-9, 2009. (Acceptance rate less than 50%)
18. Jankun-Kelly, T., Franck, J., Wilson, D., Carver, J., **Dampier, D.**, & Swan, J. E. , Show Me How You See: Lessons from Studying Computer Forensics Experts for Visualization. *5th International Workshop on Visualization for Cyber Security (VizSec 2008)*, Cambridge, MA, 80-86, September 15, 2008.
19. Riley, J., **D. Dampier**, and R. Vaughn, "A Role-Based Security Focus to the IEEE CONOPS and Software Requirements Specification," *Proceedings of the 12th World Multiconference on Systemics, Cybernetics and Informatics (WMSCI 2008)*, Orlando, FL June 29th – July 2nd, 2008.
20. **Dampier, D.**, "Building an Education Program for Engineers in Digital Forensics," *Proceedings of the 2008 ASEE Conference*, Pittsburgh, PA, June 22-25, 2008.
21. Vaughn, R. and **D. Dampier**, "A Hands-On Approach to Computer Security Instruction," *Proceedings of the 2008 ASEE-SE Conference*, Memphis, TN, April 6-8, 2008.
22. **Dampier, D.**, "Engineering Outreach to Law Enforcement," *Proceedings of the 2008 ASEE-SE Conference*, Memphis, TN, April 6-8, 2008.
23. Riley, J., **D. Dampier**, and R. Vaughn, "Forensic Hard Drive Imaging: A Time-Analysis Comparison Between the ICS Image MASSter SOLO III and the Logicube Talon", *Proceedings of the 2008 IFIP Working Group 11.9 on Digital Forensics Conference*, Kyoto, Japan, January 2008. (Acceptance rate 25-30%)
24. 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. (Acceptance rate less than 50%)
25. 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. (Acceptance rate less than 50%)
26. Bogen, A. and **D. Dampier**, "Unifying Computer Forensics Modeling Approaches: A Software Engineering Perspective," *Proceedings of the First International Workshop on Systematic Approaches to Digital Forensic Engineering (SADFE 2005)*, Taipei, Taiwan, November 7-10, 2005.

27. *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.
28. *Coleman, A. and D. Dampier*, "Expert Witness: A Computer Science Emphasis," *Proceedings of the 5th IEEE International Conference on Electronic Information Technology*, Lincoln, NE, May 22-25, 2005.
29. *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. (Acceptance rate 25-30%)
30. *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.
31. *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.
32. *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.
33. *Cantrell, G. and D. Dampier*, "Experiments in Hiding Data Inside the File Structure of Common Office Documents: A Steganography Application," *Proceedings of the 3rd International Symposium on Information and Communication Technologies*, June 16-18, 2004, Las Vegas, NV.
34. *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.
35. *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
36. *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.
37. *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.
38. *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.
39. *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).
40. *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.

41. **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.
42. 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.
43. **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.
44. **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

1. **Dampier, D.**, "Web Parsing for Maintaining Consistency," *Fourteenth Annual Software Technology Conference*, Salt Lake City, April 28-May 2, 2002.
2. 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).
3. 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).
4. **Dampier, D.**, "Rapid Prototyping and System Evolution," *Tenth Software Technology Conference*, Salt Lake City, UT, May 1998.
5. **Dampier, D.**, and C. Forest, "Advanced Software Technology for Affordability Program," *Ninth Software Technology Conference*, Salt Lake City, UT, April 1997.

Workshops

1. **Dampier, D.**, "Intrusion Detection and Forensics on Critical Infrastructure," *Texas Tech University NSF-SFS Workshop on Educational Initiatives in Cybersecurity for Critical Infrastructure*, Lubbock, TX, November 8-9, 2012.
2. **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.
3. **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

1. **Dampier, D.**, "A Wounded Warrior Training Program in Digital Forensics," "2012 International Forensics Research Conference, Chicago, IL, October 15-17, 2012.

2. **Dampier, D.**, “The Need for Models in Digital Forensics,” 2010 NEFX Workshop on Digital Forensics, Georgetown University, Washington, DC, September 13-14, 2010.
3. **Dampier, D.**, “A U.S. Government and Academia Cooperative Forensics Training Center,” 19th International Symposium on the Forensic Sciences, Melbourne, Australia, October 6-9, 2008.
4. **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.
5. **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.
6. **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.
7. **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)

- Keynote Talk at the 2015 International Conference on Digital Forensics and Cyber Crime (ICDF2C), October 2015, Seoul, Korea.
- “Forensics in the Cloud,” Keynote Talk at the 2013 Conference on Systematic Approaches in Digital Forensics Engineering (SADFE 2013), November 22, 2013, Hong Kong.
- “Security in the Cloud”, Plenary Talk at the Irish Signals and Systems Conference, June 21, 2013, Letterkenny, Ireland.
- “Women in Cyber Security”, Women in Engineering Conference, June 20, 2013, Letterkenny, Ireland.
- Discovery Learning in Information Assurance Education, May 15, 2009, Cardiff University, Cardiff, Wales, UK.
- Discovery Learning in Information Assurance Education, May 12, 2009, Letterkenny Institute of Technology, Letterkenny, Ireland.
- 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)

- Panel Presentation (Career Opportunities in Cyber), Cyber Awareness Forum, September 16, 2015, Biloxi, MS

- Cyber Incidents and Vulnerabilities, Invited Talk at Cadence Bank/MSU Cyber Security Forum, September 3, 2015, Starkville, MS.
- What it takes to build a successful cyber-security program, Keynote at the Cyber Security Education Workshop of the Electrical and Computer Engineering Department Head's Association Annual Meeting, Hilton Head, SC, March 13, 2015.
- Digital Forensics Education, Criminal Justice Day, Edinboro University of Pennsylvania, April 17, 2014.
- Distributed Analytics and Security, Cyber Security Day, Tennessee Technological University, Cookeville, TN, February 5, 2014.
- Forensics in the Cloud, Research Colloquium Presentation, University of Alabama, Tuscaloosa, AL, November 14, 2014.
- Internet Safety, Girl Scouts, Starkville, MS, November 11, 2014.
- Wounded Warrior Training in Digital Forensics, VFW Veteran's Day Ceremony, Starkville, MS, November 11, 2014.
- Panel Presentation on Cyber Security Education, Georgia Regents University Conference on Cyber Security Education, Augusta, GA, October 23, 2014.
- Cyber Security at Mississippi State University, Kiwanis Club of Starkville, September 3, 2013, Starkville, MS.
- Safeguarding Electronic Data and Members' Information, Mississippi Society of Association Executives, May 10, 2013, Meridian, MS.
- Keynote Presentation: The Need for Models in Digital Forensics Research, October 15, 2012, The International Forensics Research Conference, Chicago, IL
- Invited Talk: Workforce Training in Digital Forensics for America's Warriors, October 15, 2012, The International Forensics Research Conference, Chicago, IL
- Computer Security at Mississippi State University: Research, Teaching, and Service, September 5, 2012, Mississippi Cyber Security Working Group, Jackson, MS
- Digital Forensics Training: Law Enforcement & Wounded Warriors, October 7, 2011, Cyber Expo 2011, Memphis, TN
- Wounded Warrior Training in Digital Forensics, July 14, 2011, Information Security & Privacy Advisory Board (ISPAB), Washington, DC
- Computer Security Program at MSU, June 20, 2011, Civitan International, Starkville, MS
- Protecting Yourself and the University, May 17, 2011, MSU Support Staff Conference
- Digital Forensics Program at MSU, February 21, 2011, University of Arkansas at Little Rock, Little Rock, AR.
- A Progression of Models in Digital Forensics, April 14, 2010, University of Alabama, Computer Science Colloquium, Tuscaloosa, AL
- A Progression of Models in Digital Forensics, Research Colloquium Presentation, Department of Mathematics, U.T. El Paso, February 12, 2010, El Paso, TX
- Digital Evidence Demystified, October 22, 2009, Joint Mississippi Claims Association/Mississippi Defense Lawyer's Association Annual Meeting, Flowood, MS
- 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

- Digital Evidence: What's There and How Do You Use It (A Continuing Legal Education Class for the Mississippi Bar Association), June 4, June 30, July 31, and December 4, 2008, Mississippi State University.
- Corporate Incident Handling for CIOs and CISOs, September 26, September 30, 2008, Canton, MS.
- 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 Community Engagement Committee, 2012 – 2014
- Mississippi State University Financial Aid Appeals Committee, 2010 – 2014
- Mississippi State Faculty Research Advisory Council, 2010 – 2014
- Mississippi State Research Ethics Committee, 2013
- Mississippi State University Faculty Senate, 2007 – 2012
 - Acting Chair, University Resources Committee, 2011– 2012
- Mississippi State University Grievance Panel, 2006 – 2008
- Bagley College of Engineering Promotion and Tenure Committee, 2012 – 2014
 - Chair, 2013 – 2014
- 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
- Engineering College Courses and Curricula Committee, 2002 – 2004, 2013 - 2014
- Computer Science & Engineering Tailgate Committee, 2010 – Present
 - Chair, 2010 – Present
- Coordinator of Undergraduate Programs, Department of Computer Science and Engineering, 2004 – 2007
- Faculty Search Committee, Department of Computer Science and Engineering, 2006 – 2007, 2010 – 2011, 2012 – 2013, 2014 – 2015
 - Chair, 2012 – 2013, 2014 – 2015

- Computer Science & Engineering Facilities Committee, 2010 – 2013
 - Chair, 2010 - 2013
- Undergraduate Student Recruiting Committee, 2008 – 2014
- Computer Science & Engineering Graduate Coordinating Committee, 2003
- Computer Science & Engineering Graduate Studies Committee, 2001 – 2002, 2013 – 2014
- Computer Science & Engineering Courses and Curricula Committee, 2000-2004, 2013 – 2015
 - Chair, 2002 – 2004, 2013 – 2014
- Computer Science & Engineering Scholarships and Fellowships Committee, 2001 – 2002
 - Chair, 2001 – 2002
- Software Engineering Undergraduate Studies Committee, 2001–2002, 2003–2010, 2013
 - Chair, 2004 – 2007
- Computer Science Undergraduate Studies Committee, 2004 – 2008
 - Chair, 2004 – 2007
- Computer Engineering Steering Committee, 2004 – 2008
- Chair – Ad Hoc Committee on Software Engineering Recruiting, 2001
- Chair – Ad Hoc Committee on Distance Learning Alternatives, 2002
- Chair – Ad Hoc Committee on Teaching Efficiencies, 2013
- 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
- Mentor, Computer Science, Engineering and Mathematics (CSEM) Scholars Program

Faculty Mentored

- Dr. Nan Niu, Assistant Professor of Computer Science and Engineering, Mississippi State University (moved to University of Cincinnati, August 2014), 2010 – 2014
- Dr. Sarah Lee, Assistant Clinical Professor of Computer Science and Engineering and Director of Undergraduate Education, Department of Computer Science and Engineering, Mississippi State University, 2011 – Present
- Dr. Cindy Bethel, Associate Professor of Computer Science and Engineering, Mississippi State University, 2012 – Present
- Dr. Mohamed El Attar, Associate Professor of Computer Science and Engineering, Mississippi State University, 2015 – Present
- Dr. April Tanner, Assistant Professor of Computer Science, Jackson State University, 2014 – Present
- Dr. Chevonne Dancer, Assistant Professor of Computer Science, Jackson State University, 2014 – Present

Students Advised

Ph.D. students advised:

1. Bogen, Alfred C., *Selecting Keyword Search Terms in Computer Forensics Examinations with Domain Analysis and Modeling*, December 2006.
2. Tanner, April, *A Concept Mapping Case Domain Modeling Approach for Digital Forensic Investigations*, December 2010.
3. Stinson, James, *Cross-Entropy Approaches to Software Forensics: Source Code Authorship Identification*, December 2011.
4. Dancer, Chevonne, *A Platform Independent Investigative Process Model for Smart Phones*, December 2012.

5. Cantrell, Gary, *Development and Testing of a Semi-automated Crime Specific Digital Triage Process Model*, December 2012.
6. Glendowne, Dae, *Automating Malware Detection in Windows Memory Images using Machine Learning*, May 2015.
7. Ivancic, Christopher, *A software development model for building security into applications for the Android platform*, August 2015.
8. Thomas, DeMarcus, Preparing Dissertation Proposal
9. Miller, Cody, Preparing for Preliminary Examination
10. Garcia, Roger, Preparing for Qualifying Examination
11. Brumfield, Marcus, Preparing for Qualifying Examination

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

1. Biruduraju, Lakshmi, May 02, CPE Course only
2. Bogen, Alfred C., May 02, "Constructing a Lab Manual for Software Engineering I"
3. Chadha, Vineet, May 02, "Automated Evolution of Abstract Data Types"
4. Kundurthi, Praveen, May 02, CPE Course Only
5. Wang, Cheng, August 02, "An Implementation for Combining Changes to Software Decompositions"
6. Divyakolu, Srinivasa, December 02, "Simulation of a SCADA System"
7. Dandu, Kiram Kumar, May 03, "FRAS: A Software Package for Monitoring Fisheries"
8. Liao, Wenyuan, May 03, "Design and Implementation for an Efficient Higher Order Algorithm for Solving Reaction-Diffusion Equations"
9. Prasad, Shiva, May 03, "Secure Portal to Portal Communication Using Web Services"
10. Bhargav, Marpuri, August 03, CPE Course only
11. Dhandapani, Mangayarkarasi, August 03, "Performance Evaluation of High Performance Parallel IO"
12. Durvusala, Shravan Kumar, August 03, "Remote File Browser"
13. Kolluri, Megha S., August 03, "Evaluation of a Business Process Execution Language for Web Services to Implement Web Services-Based Overflow"
14. Leathen, August 03, CPE Course Only
15. Coleman, Allen, December 03, "Development of a Website for the Software Engineering I Lab"
16. Duzan, Emily, December 03, "Automated Science Fair Judging using PDAs"
17. Elliott, Robert, December 03, "A Complete Hardware and Software System Migration of Alcorn State University's Student Debit Card System"
18. Fox, Shea, December 03, "RedHerring"
19. Mehta, Darshan, December 03, "Automated Science & Engineering Fair Judging using PDAs"
20. Cantrell, Gary, May 04, "Introduction to Computer Crime and Forensics Lab Manual Creation, Analysis and Revision"
21. Li, Gan, May 04, CSE Course Only
22. Martin, Denise, May 04, "The USACE Datanet - Providing Efficient Data Access Through a Net-Centric Framework"
23. Mittipalli, Vamshi, May 04, CPE Course only
24. Rutledge, Michael, May 04, "Malicious Data Harvesting Using Publicly Auctioned Hard Drives"
25. Surakanti, Geeta, May 04, CSE Course only
26. Yuan, Hong, August 04, CSE Course only
27. Srirangan, Ravi, December 04, CSE Course only
28. Venkatesh, Vikram, December 04, CSE Course only
29. Evans, Deland, May 05, CSE Course only

30. Fagan, Robert, May 05, CSE Course only
31. Monceaux, Weston, May 05, CSE Course only
32. Johnson, Willie, August 05, CSE Course only
33. Tanner, April, December 05, "The Forensic Analysis of Hard Drive Wiping Tools During Disk Sanitization"
34. Thomas, Frances Chevonne, December 2005, "I² Image Identification: The Problem and the Solution"
35. Shepherd, Shaun, August 06, CSE Course Only
36. Evans, Chamel, May 08, "Applying Forensic Methodologies to Mobile Devices"
37. Choragudi, Harish, December 08, CPE Course Only
38. Riley, Jack, December 08, "A Time Analysis Comparison Between the ICS Image Masster III and the Logicube Talon"
39. Wallace, Flynn, December 08, CS Course Only
40. Parisi, Marc, May 09, "Improving Foremost execution speed by data and task level parallelization"
41. Clark, Trey, December 09, CS Course Only
42. Davis, Paul, December 09, "History Timeline Tool"
43. Johnson, Lora, December 09, CS Course Only
44. Michaels, William, December 09, "A Network Carving Forensics Framework Network Digital Debris REcycler"
45. Ethridge, Kenneth, May 10, "A Case Study Using Concept Mapping For Digital Forensic Investigations"
46. Pace, Justin, May 10, CS Course Only
47. Middleton, Jason, August 2010, CS Course Only
48. Ivancic, Chris, August 2011, CS Course Only
49. Glendowne, Jared, December 2011, CS Course Only
50. Leigh, Jonathan, December 2011, CS Course Only
51. Myatt, Shon, December 2011, "Automated Detection of Deception in Electronic Narratives"
52. Nguyen, Viet, December 2011, CS Course Only
53. Carr, Kendra, May 2012, "Women in Cyber Security"
54. Parker, James, May 2012, CS Course Only
55. Duvieilh, Kevin, May 2012, CS Course Only
56. Langston, Matthew, May 2012, CS Course Only
57. Cunningham, Joseph, August 2012, CS Course Only
58. Cook, Casey, December 2012, CPE Course Only
59. Simpkins, Daniel, December 2012, CS Course Only
60. Howlett, Evan, May 2013, CS Course Only
61. Martino, Adam, August 2013, CS Course Only
62. Bailey, James Matthew, December 2013, "ERDC Team Builder"
63. Miller, Cody, May 2014, "Forensiccloud"
64. Pilate, Barbara, May 2014, CS Course Only
65. Whitmire, Steven, May 2014, CS Course Only
66. Lalo, Jonathan, December 2014, CS Course Only
67. Haynes, Kaitlin, December 2014, "A Command and Control Approach to Red Teaming"
68. Malhotra, Asheer, May 2015, "Calculating Malware Severity Rating using Threat Tree Analysis"
69. Jones, Matthew, May 2015, An analysis of vulnerabilities presented by Android malware and iOS jailbreaks
70. Harrison, Anna, May 2015, CS Course Only
71. Horton, John, May 2015, CS Course Only

72. Gibson, Sandra, May 2016 (expected), CSE Course Only
73. Pettit, James, May 2016 (expected), CSE Course Only
74. Indu Shukla, May 2016 (expected), CSE Course Only
75. Akers, Philip, August 2016 (expected), “Open Source Digital Forensics Toolkit”
76. Young, Taylor, August 2016 (expected), CSE Course Only

Courses Taught

- CSE 3212/3222 Software Engineering Senior Design I & II
- CSE 3213/3223 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 4713/6713 Programming Languages
- CSE 4833/6833 Introduction to Analysis of Algorithms
- CSE 4990/6990 Advanced Digital Forensics
- 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 8993 Special Topics in Computer Science (Security in the Cloud)
- CSE 9253 Topics in Software Engineering (Software Process Improvement)