Curriculum Vita

HISHAM M. HADDAD

Department of Computer Science
1100 South Marietta Parkway, MD #9047
Kennesaw State University, Marietta, GA 30060
Email: hhaddad@kennesaw.edu or haddad@acm.org

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EDUCATION

Ph.D. 1992	Computer Science, Oklahoma State University, Stillwater, Oklahoma, USA Thesis: *New Inheritance Models That Facilitate Source Code Reuse in Object-Oriented Programming* (Advisor: Professor K.M. George)
M.S. 1988	Computer Science, Northrop University, Los Angeles, California, USA Thesis: *A Simple Implementation of Dijkstra's Guarded Command Language* (Advisor: Professor Jo Celko)
B.S. 1986	Computer Science, Yarmouk University, Irbid, Jordan.

Biography Sketch

Dr. Hisham Haddad, Professor of Computer Science, received his Ph.D. in Computer Science from Oklahoma State University in Stillwater, Oklahoma, in 1992. He served at Marshall University, Huntington, WV, for 9 years as Assistant and Associate Professor of Computer Science. Before joining Kennesaw State University in August 2001, he worked in the private sector as Senior Software Architect and Project Manager. Dr. Haddad is active member of the professional community, active participant in professional activities, and a member of several professional organizations, including the Association for Computing Machinery (ACM). His research interests include Software Reuse, Software Security, Component-Based Development, Programming Languages, Object-Oriented Technologies, and Undergraduate CS Education and Student Success.

TEACHING INTERESTS

Programming Principals, Data Structures, Algorithms, Databases, Software Engineering, Programming Languages, Agile Development, Senior Capstone Project, Software Project Management, Advanced Software Engineering, and Advanced Topics in Software Reuse.

RESEARCH INTERESTS

Software Security, Software Reuse, Component-Based Development, Programming Languages, Object-Oriented Technologies, and Undergraduate CS Education and Student Success.

PROFESSIONAL EXPERIENCE

8/2023 - Present	Professor of Computer Science and University Administrative Faculty PTR Coordinator. Department of Computer Science, College of Computing and Software Engineering, Kennesaw State University, Marietta, Georgia 30060.
1/2016 – 8/2016	Interim Department Chair, Information Technology Department, College of Computing and Software Engineering, Kennesaw State University, Marietta, Georgia 30060.
8/2014 – 8/2023	Professor of Computer Science. Department of Computer Science, College of Computing and Software Engineering, Kennesaw State University, Marietta, Georgia 30060.
11/2007 – 12/2008	Assistant Department Chair and Professor of Computer Science. Department of Computer Science and Information Systems, College of Science, Kennesaw State University, Kennesaw, Georgia 30144.
8/2001 – 8/2014	Professor of Computer Science. Department of Computer Science and Information Systems, College of Science, Kennesaw State University, Kennesaw, Georgia 30144.

Responsibilities include teaching at the graduate and undergraduate levels; advising students; conducting scholarship, creative and professional activities; and services to the University and the community.

Teaching courses covering variety of topics including: Programming Principles I (CS 2301), Programming Principles II (CS 2302), Database Management (IS 2080, CS 3310), Introduction to Data Communications (CSIS 2520), Introduction to Data Structures (CSIS 3401), Advanced Data Structures and Algorithms (CS 3402), and Programming Languages (CSIS 3150), Software Engineering (CS 3610), Special Topics (CS 2290), Directed Study (CS 4400), Computer Science Senior Project (CSIS 4850), Foundations of Programming (CS 5000), Data Structures (CS 5004), Data Structures and Algorithms (CS 5040), Software Engineering (CS 8431), Advanced Software Engineering (CS 8532), Advanced Database Systems (CS 8530), Advanced Topics in Software Reuse (CS 8990), and Agile Software Development (CS 6030).

8/2000 - 8/2001 Senior Software Architect and Project Manager. NetReach Inc., Ambler, Pennsylvania.

Responsibilities include software design and project management of e-commerce applications. The design involves the production of project-scoping document that results from collaborating with the customer and authoring detailed design documents that serves as the blueprint for building e-commerce applications. The project management task involves coordinating the development team, which consists of a senior team lead and a number of programmers, depending on the size of the project.

1/1999 - 8/2000 Associate Professor of Computer Science and Information Technology. Integrated Science and Technology Program, Marshall University, Huntington, West Virginia.

8/1996 – 12/1998 Associate Professor of Computer Science. Department of Computer Science and Software Development, Marshall University, Huntington, West Virginia.

8/1992 - 7/1996 Assistant Professor of Computer Science. Department of Computer Science and Software Development, Marshall University, Huntington, West Virginia.

Responsibilities include teaching; advising students; participation in scholarship, research, creative activities, course development, and professional societies; provision of service to the University and the community.

Teaching courses covering variety of topics including: Introduction to Computer Science (CIS 109), FORTRAN Programming Language (CIS 203), Principles of Programming Languages (CIS 320), Computers and Data Processing (CSD 101), Introduction to Computer Programming in C++ (CSD 118), Introduction to Computer Programming in Ada (CSD 119), Data Structures and Algorithms Using Ada (CSD 120), Data Structures and Algorithms Using C++ (CSD 218), Organization of Programming Languages (CSD 325), Compiler Construction (CSD 480 independent study), Object-Oriented Programming in C++ (CSD 480 special topics), Systems Programming with UNIX (CSD 481), Instrumentation I (IST 160), Information Technology Fundamentals (IST 236), and Systems Development I (IST 332), and Knowledge Engineering Fundamentals (IST 330).

9/1989 - 7/1992 Graduate Teaching Assistant in the Computer Science Department, Oklahoma State University, Stillwater, Oklahoma.

Responsible for teaching different courses at various levels including File Structures (COMSC 3424), UNIX Operating System and Programming (COMSC 3551), Data Structures and Information Processing (COMSC 4343), Organization of Programming Languages (COMSC 4363), Object-Oriented Programming with C++ (COMSC 4570), and Object-Oriented Programming (COMSC 5070 graduate level).

PROFESSIONAL AFFILIATIONS

01/2010 – Present Associate Editor of the ACM Applied Computing Reviews Publication (ACM ACR)
07/2010 – Present Member of the Editorial Board of the International Journal of Speech Technology (IJST)
03/1996 – Present Member of the ACM Applied Computing Reviews Editorial Board (ACM ACR)
04/1992 – Present Member of the ACM Special Interest Group on Applied Computing (SIGAPP)
10/1991 – Present Member of the KSU Graduate Faculty
04/1990 – Present Member of the Association for Computing Machinery (ACM)
07/2009 – 07/2015 Member of the Editorial Board of the International Journal of Software Engineering (IJSE)
03/2002 – 04/2024 Webmaster for the ACM Special Interest Group on Applied Computing
01/1995 – 04/2014 Member of the Consortium for Computing in Colleges

03/1994 – 04/2024 Executive committee member of the ACM Special Interest Group on Applied Computing
03/1994 – 04/2023 Member of the steering and organizing committees of the Symposium on Applied Computing (SAC)
04/1993 – 04/2014 Member of the ACM Special Interest Group on Software Engineering (SIGSOFT)
04/1993 – 04/1999 Member of the ACM Special Interest Group on Ada (SIGADA)
04/1992 – 12/2002 Member of the SIGMA XI, The Scientific Research Society
09/1992 – 08/2000 Member of the Marshall University Graduate Faculty
01/1992 – 12/1999 Member of the IEEE Computer Society (Computer Science)
04/1990 – 04/2007 Member of the ACM Special Interest Group on Programming Languages (SIGPLAN)
04/1990 – 04/2019 Member of the ACM Special Interest Group on Computer Science Education (SIGCSE)

AWARDS

June 2017 ACM Service Award for contributions to the ACM Symposium on Applied Computing (SAC 2017)
June 2016 ACM Service Award for contributions to the ACM Symposium on Applied Computing (SAC 2016)
June 2015 ACM Service Award for contributions to the ACM Symposium on Applied Computing (SAC 2015)
June 2014 ACM Service Award for contributions to the ACM Symposium on Applied Computing (SAC 2014)
May 2013 ACM Service Award for contributions to the ACM Symposium on Applied Computing (SAC 2013)
June 2012 ACM Service Award for contributions to the ACM Symposium on Applied Computing (SAC 2012)
July 2011 ACM Service Award for contributions to the ACM Symposium on Applied Computing (SAC 2011)
June 2010 ACM Service Award for contributions to the ACM Symposium on Applied Computing (SAC 2010)
July 2009 ACM Service Award for contributions to the ACM Symposium on Applied Computing (SAC 2009)
June 2008 ACM Service Award for contributions to the ACM Symposium on Applied Computing (SAC 2008)
June 2007 ACM Service Award for contributions to the ACM Symposium on Applied Computing (SAC 2007)
Feb. 2007 College of Science and Mathematics Major Declaration Award, Kennesaw State University
June 2006 ACM Service Award for contributions to the ACM Symposium on Applied Computing (SAC 2006)
April 2006 ACM SIGAPP Distinguished Service Award for services to the SIGAPP
March 2006 College of Science and Mathematics Distinguished Service Award, Kennesaw State University
Dec. 2005 CSIS Department Service Award, Kennesaw State University
Dec. 2005 College of Science and Mathematics Major Declaration Award, Kennesaw State University
May 2005 ACM Service Award for contributions to the ACM Symposium on Applied Computing (SAC 2005)
April 2005 MSACS Honoree during KSU University Scholars Award Ceremony, Kennesaw State University
March 2005 Graduate Teaching Award, MSACS program, Kennesaw State University
Feb. 2005 Distinguished Graduate Teaching Award Finalist, Kennesaw State University
April 2004 ACM Service Award for contributions to SAC 2004 and SIGAPP
April 2003 ACM Service Award for contributions to SAC 2003 and SIGAPP
April 2002 ACM Service Award for contributions to SAC 2002 and SIGAPP
April 2001 ACM Service Award for contributions to SAC 2001 and SIGAPP
April 2000 ACM Service Award for contributions to SAC 2000 and SIGAPP
April 1999 ACM Service Award for contributions to SAC 1999 and SIGAPP
9/98 – 8/99 Marshall University College of Science Meritorious Performance Award
9/97 – 8/98 Marshall University College of Science Meritorious Performance Award
9/96 – 8/97 Marshall University College of Science Meritorious Performance Award
9/95 – 8/96 Marshall University College of Science Meritorious Performance Award
9/94 – 8/95 Marshall University College of Science Meritorious Performance Award

PUBLICATIONS

Thesis Projects:

1. MS Thesis Committee Member. Rao Sai Prahash Reddy, "OWLBOT: Designing and Developing an AI-Powered Peer Advisor Chatbot for University Websites", *Master of Science in IT.* In Progress, expected completion is Fall 2025. https://digitalcommons.kennesaw.edu/masterstheses/87/

2. MS Thesis Committee Member. Martina Ojonah, "Deep Learning for Human MicroRNA Precursor Prediction: A Systematic Literature Review", *Master of Science in IT.* Completed Fall 2021. https://digitalcommons.kennesaw.edu/msit_etd/10/

3. Dissertation Thesis Committee Member and Co-Advisor. Mohammad Masum, " Integrated Machine Learning Approaches to Improve Classification performance and Feature Extraction Process for EEG Dataset", *Ph.D. in Data Science*. Completed July 2021. https://digitalcommons.kennesaw.edu/dataphd_etd/10/.

4. MS Thesis Committee Member. Sahil Arora, "Increasing the efficiency of Long Distance Iris Recognition". *Master of Science in CS*. Completed May 2020.

5. MS Thesis Committee Member. Lin Wang, "Deep Learning for Identifying Lung Diseases". *Master of Science in CS.* Completed Summer 2020. https://digitalcommons.kennesaw.edu/cs_etd/35/.

6. MS Thesis Committee Member. Yihong Li, " Deep Learning for Identifying Breast Cancer". *Master of Science in CS.* Completed Summer 2020. https://digitalcommons.kennesaw.edu/cs_etd/34/.

7. MS Thesis Committee Member. Daniel Mojahedi, "Using Multi-Task Neural Networks to Predict Pediatric Patients' Hospital Lengths of Stay". *Master of Science in CS.* Completed Fall 2019.

8. MS Thesis Committee Chair. Maryam Farhadi, "Compliance of Open Source EHR Applications with HIPAA and ONC Security and Privacy Requirements". *Master of Science in CS*. Completed Spring 2019. https://digitalcommons.kennesaw.edu/cs_etd/23/.

9. MS Thesis Committee Chair. Mahbubul Islam, "Internet of Things-Based Smart Classroom Environment". *Master of Science in IT. Thesis Proposal.* The student decided to elect Project option, Spring 2017.

10. MS Thesis Committee Chair. Sarah Tippens, "An Internet-of-Things based System to Measure Student Physiological Responses That Indicate Stress, Boredom, and Attention". *Master of Science in CS. Thesis Proposal.* The student decided to transfer to another institution in Spring 2017.

11. MS Thesis Committee Chair. Robert N. Bronte, "A Framework for Hybrid Intrusion Detection Systems". *Master of Science in IT.* Completed October 2016. http://digitalcommons.kennesaw.edu/msit_etd/2/.

12. MS Thesis Committee Chair. Atabekov, Amir R., "Internet of Things-Based Smart Classroom Environment". *Master of Science in CS.* Completed May 2016, http://digitalcommons.kennesaw.edu/cs_etd/2/.

13. MS Thesis Committee Chair. Pranahita Bulusu, "Detection of Light-Weight Directory Access Protocol Query Injection Attacks in Web Applications". *Master of Science in CS.* Completed December 2015. https://digitalcommons.kennesaw.edu/cs_etd/1/.

14. MS Thesis Committee Chair. Vanessa N. Cooper, "Tapjacking Threats and Mitigation Techniques for Android Applications". *Master of Science in CS.* Completed May 2014. https://digitalcommons.kennesaw.edu/etd/632/.

Book Chapter:

1. Feiyan Qu, **Hisham M. Haddad**, and Hossain Shahriar. *Application of Blockchain and Smart Contract: Approaches and Challenges*. In the book titled *Essentials of Blockchain Technology* (pp. 121-140). Edited by Kuan-Ching Li, Xiaofeng Chen, Hai Jiang, and Elisa Bertino. Published by IGI Global. CRC Press, 2019. URL: https://books.google.com/books?hl=en&lr=&id=SsfADwAAQBAJ&oi=fnd&pg=PA121&dq=feiyang+qu+blockchain&ots=rAndye_yW6&sig=biA5Q_aPlXHC4-pu2h0h7EUg8n0#v=onepage&q&f=false.

2. Md. Arabin Islam Talukder, Hossain Shahriar, and **Hisham M. Haddad**. *Point of Sale Device Attacks and Mitigation Approaches for Cyber-Physical Systems.* In the book titled *Cybersecurity and Privacy in Cyber-Physical System* (pp. 368-383). Edited by Yassine Maleh, Abdelkrim Haqiq, Mohammad Shojafar, and Ashraf Darwish. Published by IGI Global. CRC Press, 2019. URL: https://books.google.com/books?id=PVOWDwAAQBAJ&lpg=PA367&ots=smB-EmJqLK&dq=info%3AiPKKaAphYiYJ%3Ascholar.google.com&lr&pg=PA367#v=onepage&q&f=false.

3. Maryam Farhadi, **Hisham M. Haddad**, and Hossain Shahriar. In Y. Malleh (Ed.), *Compliance of Electronic Health Record Applications with HIPAA Security and Privacy Requirements*, In the book titled *Security and Privacy Management, Techniques, and Protocols.* IGI Global, copyright: © 2018, pp. 199-213. URL: https://www.igi-global.com/chapter/compliance-of-electronic-health-record-applications-with-hipaa-security-and-privacy-requirements/202045.

4. Hossain Shahriar and **Hisham M. Haddad**. *Fuzzy Rule-Based Vulnerability Assessment Framework for Web Applications*. In the book titled *Application Development and Design: Concepts, Methodologies, Tools, and Applications.* Edits by Mehdi Khosrow-Pour, IGI Global, copyright: © 2018, pp. 778 – 797, DOI: 10.4018/978-1-5225-3422-8.ch034. URL: https://www.igi-global.com/chapter/fuzzy-rule-based-vulnerability-assessment-framework-for-web-applications/188234

5. R. Bronte, H. Shahriar, and **Hisham M. Haddad**. *Benchmark for Empirical Evaluation of Web Application Anomaly Detectors*. In the book titled *Empirical Research for Software Security: Foundations and Experience*, published by Taylor & Francis Group, LLC. Editors: Lotfi ben Othmane, Fraunhofer SIT, Germany; Martin Gilje Jaatun, SINTEF, Norwa; and Edgar Weippl, SBA Research, Austria. pp. 271-300), Springer 2017, Chapter 9. https://www.crcpress.com/Empirical-Research-for-Software-Security-Foundations-and-Experience/Othmane-Jaatun-Weippl/p/book/9781498776417.

6. Vanessa N. Cooper, Hossain Shahriar, and **Hisham M. Haddad.** *Development and Mitigation of Android Malware*. in the *Handbook of Research on Digital Crime, Cyberspace Security, and Information Assurance.* Editors: Maria Manuela Cruz-Cunha and Irene Maria Portela, IGI Global, pp. 51-66, January 2015. DOI: 10.4018/978-1-4666-6324-4.ch004. https://www.igi-global.com/chapter/development-and-mitigation-of-android-malware/115748.

7. Hossain Shahriar, **Hisham M. Haddad**, and Ishan Vaidya. *Fuzzy Logic-based Security Risk Assessment*, in the book titled *Case Studies in Intelligent Computing - Achievements and Trends*, Edited by Biju Issac and Nauman Israr, CRC Press - Taylor and Francis Group (www.crcpress.com). ISBN# 978-1-4822-0703-3 (print) and ISBN# 978-1-4822-0704-0 (e-book), pp. 49-66, Spring 2014, Chapter 3. URL: https://books.google.com/books?id=WNXMBQAAQBAJ&printsec=frontcover&dq=Case+Studies+in+Intelligent+Computing+-+Achievements+and+Trends+2014&hl=en&sa=X&ved=0ahUKEwj0-PrfrPjgAhUlhOAKHRGhB4YQ6AEILTAB#v=onepage&q&f=false

8. Book chapter by Ying Xie, Ajay Ravichandran, **Hisham M. Haddad**, and Katukuri Jayasimha. *Capturing Concepts and Detecting Concept-drift from Potential Unbounded, Ever Evolving, and High-Dimensional Data Streams.* In the book titled *Data Mining: Foundations and Practice*. Edited by T.Y. Lin, Y. Xie, A. Wasilewska, and C. Liau. Springer-Verlag, pp. 485-499, 2008. https://link.springer.com/chapter/10.1007%2F978-3-540-78488-3_28.

Referred Journal Articles:

1. Reddy Rao, S. P., Li, L., **Haddad, H**., He, J. Architecting the Academic Assistant: A Review of Dual-Processing Architectures and Hybrid Chatbot Design in Higher Education. **Journal of Information Systems Applied Research and Analytics**, Vol. 19, No. 1, pp. 15-25, 2026. https://jisara.org/2026-19/n1/JISARAv19n1p15.html. DOI: https://doi.org/10.62273/XQBK2345..

2. Hossain Shahriar, **Hisham M. Haddad**, and Maryam Farhadi. *Assessing HIPAA Compliance of Open-Source Electronic Health Record Applications.* **International Journal of Information Secure and Privacy (IJISP)**, Vol. 15, No. 2, pp. 181-195, 2021. DOI: 10.4018/IJISP.2021040109, IGI Global. https://www.igi-global.com/article/assessing-hipaa-compliance-of-open-source-electronic-health-record-applications/276390.

3. Romero, B. D. R., Rodríguez-Fórtiz, M. J., Torres, M. V. H., **Haddad, H**. *Accessibility and Activity-Centered Design for ICT Users: ACCESIBILITIC Ontology*. **IEEE Access**, Vol. 6, No. 1, pp. 60655-60665, 2018. Impact Factor: 3.557. https://ieeexplore.ieee.org/document/8490866?arnumber=8490866&source=authoralert. DOI: 10.1109/ACCESS.2018.2875869.

4. Hossain Shahriar and **Hisham M. Haddad**., and Pranahita Bulusu. *LDPA Vulnerability Detection in Web Application*. **International Journal of Secure Software Engineering (IJSSE)**, Vol. 8, No. 4, pp. 31-50, 2017. DOI: 10.4018/IJSSE.2017100102, IGI Global. https://www.igi-global.com/article/ldap-vulnerability-detection-in-web-applications/204523.

5. Romero-Mariño B.D., Espín V., Rodríguez-Fórtiz M.J., Hurtado-Torres M.V., Ramos L., **Haddad H. M.** *Ontology to Profile User Models with Disabilities*. In: Ouhammou Y., Ivanovic M., Abelló A., Bellatreche L. (eds) Model and Data Engineering. MEDI 2017. **Lecture Notes in Computer Science,** Vol. 10563. 2017, Springer, Cham. 2017. https://link.springer.com/chapter/10.1007/978-3-319-66854-3_28.

6. Hossain Shahriar and **Hisham M. Haddad.** *Security Vulnerabilities of NoSQL and SQL Databases for MOOC Applications*. **International Journal of Digital Societies (IJDS)**. Vol. 8, No. 1, pp. 1244-1250, 2017. Impact Factor: 3.768. www.infonomics-society.org/ijds/. DOI: 10.20533/ijds.2040.2570.2017.0153.

7. Hossain Shahriar, **Hisham M. Haddad**, David Lebron, and R. Lupu. *Survey of Vulnerabilities and Mitigation Techniques for MOOC-Based Applications.* **International Journal of Secure Software Engineering (IJSSE)**, IGI Global, Vol. 7, No. 4, pp. 1-14, 2016. https://www.igi-global.com/article/survey-of-vulnerabilities-and-mitigation-techniques-for-mooc-based-applications/176398.

8. Hossain Shahriar and **Hisham M. Haddad.** *Fuzzy Rule-Based Vulnerability Assessment Framework for Web Applications*. **International Journal of Secure Software Engineering (IJSSE)**, IGI Global, Vol. 7, No. 2. pp. 1-18, June 2016. http://www.igi-global.com/article/fuzzy-rule-based-vulnerability-assessment-framework-for-web-applications/152244.

9. Hossain Shahriar, Hisham M. Haddad, Vamshee Krishna Devendran. *Request and Response Analysis Framework for Mitigating Clickjacking Attacks.* **International Journal of Secure Software Engineering (IJSSE)**, IGI Global, Vol. 6, No. 3. pp. 1-25, September 2015. DOI:10.4018/IJSSE.2015070101.

10. Vanessa M. Cooper, **Hisham M. Haddad**, and Hossain Shahriar, *Android Malware Detection Using Kullback-Leibler Divergence*, **Advances in Distributed Computing and Artificial Intelligence Journal (ADCAIJ)**, Vol 3, No 9, ISSN: 2255-2863, pp. 1-9, January 2015. https://revistas.usal.es/cinco/index.php/2255-2863/article/view/ADCAIJ2014321725. DOI:10.14201/ADCAIJ2014321725.

11. Hossain Shahriar, **Hisham M. Haddad**. *Buffer Overflow Patching for C and C++ Programs: Rule-Based Approach.* Invited article in the **ACM SIGAPP Applied Computing Review (ACR)**, Vol. 13, No. 2, pp. 8-19. June 2013. https://dl.acm.org/doi/10.1145/2505420.2505421. **(Acceptance rate 7%)**

12. Kevin Morrison and **Hisham M. Haddad**. *Converting Users to Testers: An Alternative Approach to Load Test Script Creation, Parameterization, and Data Correlation*. **Journal of Computing Sciences in Colleges**. Vol. 28, No. 2, pp. 188-195, 2012. The 26th Annual CCSC: Southeastern Conference, Southern Polytechnic State University. November 2-3, 2012. https://dl.acm.org/doi/10.5555/2382887.2382917.

13. Brian Kelly and **Hisham M. Haddad**. *Metric Techniques for Maintenance Programmers in a Maintenance Ticket Environment.* **Journal of Computing Sciences in Colleges**. Vol. 28, No. 2, pp. 170-178, 2012. The 26th Annual CCSC: Southeastern Conference, Southern Polytechnic State University. November 2-3, 2012. https://dl.acm.org/doi/10.5555/2382887.2382913.

14. Warren E. Taylor and **Hisham M. Haddad**. *Flaws of the OO Paradigm: A Perspective from the Procedural Side.* **Journal of Computing Sciences in Colleges**. Vol. 28, No. 2, pp. 160-167, 2012. The 26th Annual CCSC: Southeastern Conference, Southern Polytechnic State University, November 2-3, 2012. https://dl.acm.org/doi/abs/10.5555/2382887.2382913.

15. **Hisham M. Haddad** and Eva Sager. *The Batman Role in Software Development.* **Journal of Information Systems Technology and Planning (JISTP)**, Vol. 5, No. 11, pp. 1-16, February 2012.

16. **Hisham M. Haddad**, Nancy C. Ross, and Donald E. Meredith. *A Framework for Instituting Software Metrics in Small Software Organizations.* **International Journal of Software Engineering (IJSE),** Vol. 5, No. 1, pp. 69-98, January 2012. https://ijse.org.eg/issues/vol-5-no-1/. https://ijse.org.eg/papers/a-framework-for-instituting-software-metrics-in-small-software-organizations/

17. **Hisham M. Haddad.** *Survey and Analysis of Success Predictive Factors for Computer Science Majors*. **Review of Higher Education and Self-Learning (RHESL),** Vol. 4, No. 9, pp. 1-23, February 2011.

18. **Hisham M. Haddad** and Nancy Ross. *Software Process Improvement and Metrics Adoption in Small Organizations*. **Journal of Information Systems Technology and Planning (JISTP)**, Vol. 3, No. 6, December 2010, pp. 6-29. https://digitalcommons.kennesaw.edu/facpubs/3607/.

19. **Hisham M. Haddad** and Olayemi Olagbegi. *Software Cost Estimation: A Study of Best Practices and Combinatory Approaches*. **Journal of Information Systems Technology and Planning (JISTP)**, Vol. 2, No. 4, February 2010, pp. 45-62.

20. **Hisham M. Haddad** and Brunil D. Romero, *Asset Identification for Security Risk Assessment in Web Applications.* **International Journal of Software Engineering (IJSE)**, Vol. 2, No. 3, December 2009, pp.53-74. https://ijse.org.eg/papers/asset-identification-for-security-risk-assessment-in-web-applications/

21. **Hisham M. Haddad** and David Battista. *Software Development Standards for Medical Devices.* **Journal of Information Systems Technology and Planning (JISTP)**, Vol. 2, No. 3, December 2009, pp. 45-58. Invited paper.

22. Huey Mai and **Hisham Haddad.** *A Comparative Study of Personal Code Management Tools*. **Journal of Computing**

Sciences in Colleges, Vol. 22, No. 5, May 2007, pp. 62-69. https://dl.acm.org/toc/jcsc/2007/22/5.

23. **Hisham Haddad** and Ying Xie. *Wrapper-Based Framework for Domain-Specific Software Reuse*. **Journal of Information Science and Engineering (JISE),** March 2006, Vol. 22, No. 2, pp. 269-282. https://jise.iis.sinica.edu.tw/JISESearch/pages/Customize/DesignatedIssueContent.jsf?TheIssue=53.

24. Erol Biberoglu and **Hisham Haddad**. *A Survey of Industrial Experiences with CMM and the Teaching of CMM Practices*. **Journal of Computing Sciences in Colleges**, Vol. 18, No. 2, December 2002, pp. 143-152. https://dl.acm.org/doi/10.5555/771322.771345.

25. **Hisham Haddad**. *Post-Graduate Assessment of CS Students: Experience and Position Paper*. **Journal of Computing Sciences in Colleges**, Vol. 18, No. 2, December 2002, pp. 189-197. https://dl.acm.org/doi/10.5555/771322.771350.

26. Herbert Tesser**, Hisham Al-Haddad**, Steve McClaugherty, and Jerry Frame. *Experience with an Undergraduate Research Project: Software Reuse and Interoperability Study.* **Journal of Computing in Small Colleges**, Vol. 14, No. 1, November 1998, pp. 86-95. https://apps.dtic.mil/sti/pdfs/ADA398492.pdf.

27. **Hisham Al-Haddad**, Edward Curtis, and Jeremiah Bragg. *Visual Illustration of Object-Orientation: A Tool for Teaching Object-Oriented Concepts.* **Journal of Computing in Small Colleges**, Vol. 12, No. 2, November 1996, pp. 83-93.

28. **Hisham Al-Haddad** and K.M. George. *A Survey of Method Binding and Implementation Selection in Object-Oriented Programming Languages.* **Journal of Object-Oriented Programming**, Vol. 8, No. 6, October 1995, pp. 28-41. https://www.sigmod.org/publications/dblp/db/journals/joop/joop8.html.

29. **Hisham Al-Haddad** and K.M. George. *Object-Oriented Programming and Code Reuse in C++ and Ada 9X.* **Journal of Computing in Small Colleges**, Vol. 10, No. 4, February 1995, pp. 47-55.

30. **Hisham Al-Haddad** and K.M. George. *An Implementation Inheritance Model for Object-Oriented Programming.* **Journal of Systems and Software**. Vol. 20, No. 1, January 1994, pp. 3-18. https://ftp.math.utah.edu/pub/tex/bib/toc/jsystsoftw.html#20(1):January:1993.

31. **Hisham Al-Haddad**, K.M. George, and M.H. Samadzadeh. *A Feedback Inheritance Model.* **Journal of Systems and Software,** Vol. 18, No. 3, July 1992, pp. 219-234. https://ftp.math.utah.edu/pub/tex/bib/toc/jsystsoftw.html#18(3):July:1992.

32. **Hisham Al-Haddad**, K.M. George, and M.H. Samadzadeh. *Approaches to Reusability in C++ And Eiffel.* **Journal of Object-Oriented Programming,** Vol. 4, No. 5, September 1991, pp. 34-45.

Referred Conference Proceedings:

1. Sai Prakash Reddy Rao, Silvia Sanjana, Lei Li, **Hisham Haddad**, and Selena He. "OwlBot: A Retrieval-Augmented Peer Advisor Chatbot for University Websites". *Proceedings of the International Workshop on Generative AI and Learning Analytics for Scalable Education, Phoenix, Arizona, December 14, 2026*. https://gale-2026-workshop.hui-dhr-d-2127.chatgpt.site/

2. Rao Sai Prakash Reddy, Selena He, Lei Li, and **Hisham Haddad**. "Survey on Design Mechanisms of Hybrid Chatbots in Academic Websites". *Proceedings of the Information Systems and Computing Academic Professionals Conference (ISCAP), Louisville, KY, November 2025*. https://iscap.us/proceedings/2025/authors.html. (**Acceptance rate 35%)**

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83. **Hisham Al-Haddad**, Herbert Tesser, and Steven Wartik. "Megaprogramming Education". *Proceedings of the 28th Annual ACM SIGCSE Technical Symposium,* San Jose, CA, February 27 - March 1, 1997, pp. 282-286. https://dl.acm.org/doi/pdf/10.1145/268084.268194.

84. **Hisham Al-Haddad** and Akhtar Lodgher. "Software Engineering in Undergraduate Education". *Proceedings of the 2nd International Conference on Electronics, Circuits, and Systems*, Amman, JORDAN, December 18-21, 1995, pp. 432-435.

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87. Akhtar Lodgher and **Hisham Al-Haddad**. "Learning C++ for Ada Users". *Proceedings of the 13th Annual National*

Conference on Ada System and Technology, Valley Forge, PA, March 13-16, 1995, pp. 143-150. https://people.cs.kuleuven.be/~dirk.craeynest/ada-belgium/events/95/950313-ancost.html.

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89. Akhtar Lodgher and **Hisham Al-Haddad**. "Making Ada 'Exciting and Fun' for Undergraduates". *Proceedings of the 12th Annual National Conference on Ada Systems and Technology,* Williamsburg, VA, March 21-24, 1994, pp. 89-96.

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91. Akhtar Lodgher and **Hisham Al-Haddad**. "A Practical Approach for Teaching Reuse in a data structures course using Ada". *Proceedings of the Poster Program of the 25th ACM SIGCSE Technical Symposium on Computer Science Education,* Phoenix, AZ, March 10-12, 1994, pp. 407-412. https://dblp.org/db/conf/sigcse/sigcse1994.html#LodgherA94. https://ftp.math.utah.edu/pub/tex/bib/adabooks.pdf?utm_source=chatgpt.com.

92. **Hisham Al-Haddad**, K.M. George, and Thomas Gresten. "Dynamic Selection and Reuse of Implementations in the Object-Oriented Programming Paradigm". *Proceedings of the 7th ACM SIGAPP Symposium on Applied Computing*, Indianapolis, IN, February 1993, pp. 452-459. https://dl.acm.org/doi/10.1145/162754.165198.

93. **Hisham Al-Haddad**, K.M. George, G.E. Hedrick, and D.D. Fisher. "Multiple Representation of Abstract Data Types and Reuse of Realizations". *Proceedings of the 6th ACM SIGAPP Symposium on Applied Computing,* Kansas City, Missouri, March 1992, pp. 169-176. https://dl.acm.org/doi/pdf/10.1145/143559.143635.

94. **Hisham Al-Haddad**, K.M. George, and M.H. Samadzadeh. "A Taxonomy of Object-Oriented Programming Languages". *Proceedings of the 1st Golden West International Conference on Intelligent Systems,* Reno, NV, June 1991, pp. 169-174.

95. K.M. George, D.D. Fisher, G.E. Hedrick, and **Hisham Al-Haddad**. "Multiple Representations of Abstract Data Types". *Proceedings of the 5th ACM/IEEE Symposium on Applied Computing*, Kansas City, MO, April 1991, p. 403. https://ieeexplore.ieee.org/document/143910.

96. **Hisham Al-Haddad**, K.M. George, and M.H. Samadzadeh. "TIM: A Unified Approach to Object Inheritance". *Proceedings of the 7th International Conference on Systems Engineering*, Las Vegas, NV, July 1990, pp. 780-787.

97. **Hisham Al-Haddad**, K.M. George, and M.H. Samadzadeh. "Description of A New Approach to Object Inheritance". *Proceedings of the 4th ACM/IEEE Symposium on Applied Computing,* Fayetteville, AR, April 1990, pp. 289-296. https://ieeexplore.ieee.org/document/82184.

Editorials:

1. **Hisham Haddad** and et. al. Editor of *Applied Computing 2017: Proceedings of the 2017 ACM Symposium on Applied Computing.* Marrakesh, Morocco, April 2017 (In progress).

2. **Hisham Haddad** and et. al. Editor of *Applied Computing 2016: Proceedings of the 2016 ACM Symposium on Applied Computing.* Pisa, Italy, April 2016.

3. **Hisham Haddad** and et. al. Editor of *Applied Computing 2015: Proceedings of the 2015 ACM Symposium on Applied Computing.* Salamanca, Spain, March 2015.

4. **Hisham Haddad** and et. al. Editor of *Applied Computing 2014: Proceedings of the 2014 ACM Symposium on Applied Computing.* Gyeongju, Korea, March 2014.

5. **Hisham Haddad** and et. al. Editor of *Applied Computing 2013: Proceedings of the 2013 ACM Symposium on Applied Computing.* Coimbra, Portugal, March 2013.

6. **Hisham Haddad** and et. al. Editor of *Applied Computing 2012: Proceedings of the 2012 ACM Symposium on Applied Computing.* Riva del Garda, Trenton, Italy, March 2012.

7. **Hisham Haddad** and et. al. Editor of *Applied Computing 2011: Proceedings of the 2011 ACM Symposium on Applied Computing.* Taichung, Taiwan, March 2011.

8. **Hisham Haddad** and et. al. Editor of *Applied Computing 2010: Proceedings of the 2010 ACM Symposium on Applied Computing.* Sierre, Switzerland, March 2010.

9. **Hisham Haddad** and et. al. Editor of *Applied Computing 2009: Proceedings of the 2009 ACM Symposium on Applied Computing.* Honolulu, Hawaii, March 2009.

10. **Hisham Haddad** and et. al. Editor of *Applied Computing 2008: Proceedings of the 2008 ACM Symposium on Applied Computing.* Fortaleza, Brazil, March 2008.

11. **Hisham Haddad** and et. al. Editor of *Applied Computing 2007: Proceedings of the 2007 ACM Symposium on Applied Computing.* Seoul, Korea, March 2007.

12. **Hisham Haddad** and et. al. Editor of *Applied Computing 2006: Proceedings of the 2006 ACM Symposium on Applied Computing.* Dijon, France, April 2006

13. **Hisham Haddad** and et. al. Editor of *Applied Computing 2005: Proceedings of the 2005 ACM Symposium on Applied Computing.* Santa Fe, New Mexico, March 2005.

14. **Hisham Haddad** and et. al. Editor of *Applied Computing 2004: Proceedings of the 2004 ACM Symposium on Applied Computing.* Melbourne, Nicosia, Cyprus, March 2004.

15. **Hisham Haddad** and et. al. Editor of *Applied Computing 2003: Proceedings of the 2003 ACM Symposium on Applied Computing.* Melbourne, Florida, March 2003.

16. **Hisham Haddad** and et. al. Editor of *Applied Computing 2002: Proceedings of the 2002 ACM Symposium on Applied Computing.* Madrid, Spain, March 2002.

17. **Hisham Haddad** and et. al. Editor of *Applied Computing 2001: Proceedings of the 2001 ACM Symposium on Applied Computing.* Las Vegas, Nevada, March 2001.

Workshops:

1. **Hisham Al-Haddad** and Mike Little. *DNA Simulation Model.* Workshop at the West Virginia Science Teachers Association 5th Annual Conference, Charleston, West Virginia, October 14 -16, 1999.

2. **Hisham Al-Haddad** and Mike Little. *Acid Mine Drainage Model.* Workshop at the West Virginia Science Teachers Association 5th Annual Conference, Charleston, West Virginia, October 14 -16, 1999.

3. Mike Little and **Hisham Al-Haddad**. *Education in the Rural Community.* Workshop at the West Virginia IT Conference and Exposition, Charleston, West Virginia, June 27-30, 1999.

Technical Reports:

1. **Hisham Haddad.** *A Survey of Predictive Factors of Success in the Introductory Computer Science Courses.* Technical Report. Department of Computer Science and Information Systems, Kennesaw State University, Kennesaw, Georgia, April 2002.

2. **Hisham Haddad.** *Success in Introductory Computer Science Courses: Assessment Studies and Predictive Factors.* Technical Report funded by the State of Georgia Yamacraw Program, June 2002

3. **Hisham Al-Haddad** and Herbert Tesser. *Atomic Domains and Wrappers.* Technical Report Funded by grant DAAH04-96-1-0419 monitored by the U.S. Army Research Office. May 1998.

4. **Hisham Al-Haddad**, Herbert Tesser, Steve McClaugherty, and Jerry Frame. *Software Rues and Interoperability: Generic Algorithms Domain Interface.* Technical Report Funded by grant DAAH04-96-1-0419 monitored by the U.S. Army Research Office. May 1997.

5. **Hisham Al-Haddad**, Herbert Tesser, Steve McClaugherty, and Jerry Frame. *Software Reuse and Interoperability.* Technical Report Funded by grant DAAH04-96-1-0419 monitored by the U.S. Army Research Office, January 1997.

6. Herbert Tesser and **Hisham Al-Haddad**. *Train the Trainer.* Technical Report, Software Productivity Consortium, Herndon, VA 22070, January 1996.

7. **Hisham Al-Haddad**. *New Inheritance Models that Facilitate Source Code Reuse in Object-Oriented Programming.* Doctorate Thesis, Department of Computer and Information Sciences, Oklahoma State University, Stillwater, OK, July 1992.

8. **Hisham Al-Haddad**. *A Simple Implementation of Dijkstra's Guarded Command Language.* Master's Thesis, Computer Science Department, Northrop University, Los Angeles, CA, June 1988

Lab Manuals:

1. **Hisham Al-Haddad.** *Introduction to Computing II Using C++.* Lab Manual for CSD 218 (Data Structures). August 1997.

2. **Hisham Al-Haddad.** *Introduction to Computing I Using C++.* Lab Manual for CSD 118. January 1997.

ONLINE COURSES

1. **CS 5000: Fundamentals of Programming:** Online course that covers program design and computer science concepts. A modern Object-Oriented language is used. Topics include core programming concepts including common data structures, function and class definition, inheritance, polymorphism, file I/O and exceptions, and recursion. The course is offered in the MACS Program at Kennesaw State University.

2. **CS 5040: Fundamentals of Data Structures and Algorithms:** Online course that covers the concepts and implementation of data structures with emphasis on their specifications, representations, and application to problem solving. Topics include Arrays, Linked-Lists, Recursion, Sort and Search Algorithms, Stacks, Queues, Lists, Trees, Binary Search Trees, and Graphs. The Java language is used to illustrate the implementation aspects of covered data structured. The course is offered in the MACS Program at Kennesaw State University.

3. **CS 8990: Software Reuse Practices:** Online graduate course covering Software Reuse Concepts, Strategies, and Research. Discussion of technical aspects of software reuse; current strategies and techniques for introducing software reuse into an organization; current reuse technologies and metrics; and current research and trends in software reuse. The course was offered in the MSACS Program at Kennesaw State University.

4. **CS 8532: Advanced Software Engineering:** Online graduate course on object-oriented software engineering, including the study of concepts, methods, and measurements applicable to software analysis, design, implementation, software testing strategies and method, software metrics, and component-based software engineering. The course was offered in the MSACS Program at Kennesaw State University.

5. **CS 8431: Software Engineering:** Online course on software engineering concepts and software project management concepts, including project planning, risk analysis issues, project scheduling and tracking methods, quality assurance concepts, project metrics, and software configuration management. The course was offered in the MSACS Program at Kennesaw State University.

6. **CSD 101E: Computers and Data Processing:** Online undergraduate course on computer literacy essentials. The course covers fundamental concepts of computers and software, and it provides hands-on experience with various applications, including Windows, Internet, and MS Office applications. The course was offered at Marshall University from spring 1998 to summer 2000.

FUNDED ACTIVITIES (Grants and Contracts)

8/2026 Student Success Grant, Sponsored by Kennesaw State University - Provost Office, $56,600, from August 15, 2026 – August 15, 2027. The grant is to hire and manage 10 GTA positions to support the College Student Success Initiative.

8/2025 Co-Principal Investigator, Northeastern University Center for Inclusive Computing, grant, titled “enhancing the graduate pathway program for master's degrees”, from September1, 2025 – August 2027, $97,750. The grant is to develop customized degree maps for graduate programs, develop pre-learning assessment tools, redevelop

programming and data structure courses to improve student success s , and support the hiring of Graduate Teaching Assistants to provide teaching support for foundation and pathways courses.

8/2025 Co-Principal Investigator, Northeastern University Center for Inclusive Computing, grant, titled "Helping to Empower and Retain Computing Students (HER-CS)", from September1, 2025 – August 2028, $365,274. The grant is to develop a series of interventions and other activities to improve success and retention of undergraduate computing students.

8/2025 Student Success Grant, Sponsored by Kennesaw State University - Provost Office, $56,600, from August 15, 2025 – August 15, 2026. The grant is to hire and manage 10 GTA positions to support the College Student Success Initiative.

8/2024 Student Success Grant, Sponsored by Kennesaw State University - Provost Office, $50,600, from August 15, 2024 – August 15, 2025. The grant is to hire and manage 10 GTA positions to support the College Student Success Initiative.

8/2023 Student Success Grant, Sponsored by Kennesaw State University - Provost Office, $54,000, from August 15, 2023 – August 15, 2024. The grant is to hire and manage 10 GTA positions to support the College Student Success Initiative.

8/2022 Student Success Grant, Sponsored by Kennesaw State University - Provost Office, $54,000, from August 15, 2022 – August 15, 2023. The grant is to hire and manage 10 GTA positions to support the College Student Success Initiative.

8/2021 Student Success Grant, Sponsored by Kennesaw State University - Provost Office, $54,000, from August 15, 2021 – August 15, 2022. The grant is to hire and manage 10 GTA positions to support the College Student Success Initiative.

9/2009 Co-Principal Investigator, 2009-2010 ILEC Faculty Learning Community Initiative grant, titled "Ethics in Computing Curriculum", from September1, 2009 – December 16, 2009, $3,250. The grant is to develop case studies to increase the coverage of Ethics in computing curriculum.

1/2004 Co-Principal Investigator for the Georgia Electronic Design Center (GEDC), from January 2004 to June 2005, for the amount of $43,560. The grant supports a number of projects for Embedded System Tools for Networks.

1/2002 Principal Investigator for the State of Georgia Yamacraw Program, from January to June 2002, for the amount of $10,000. The grant is to study assessment projects, case studies, and reports that investigate the prediction of student success in the introductory computer science courses.

2/2000 Principal Investigator for the Appalachian Transportation Institute, from April 14 to June 15, 2000, for the amount of $8,000. The grant is to develop Website for the institute.

2/1998 Co-Principal Investigator for the Appalachian Regional Commission (ARC Project), West Virginia Technology Advantage Program, from February 1998 to August 2000, for the amount of $144,000. The grant is to develop Web-based models to simulate real-life environmental and scientific scenarios on Wetland and DNA analysis. The models will be accessible to West Virginia high school students in remote areas.

1/1998 Co-Principal Investigator for the Marshall University Special Project for Integrated Science Course development, from January 1, 1998 to June 30, 1998. The grant, for the amount of $10,000, is to supplement an early grant for the development of computer-based prototype of the Acid Mine Drainage model.

1/1998 Online Computer Literacy course development, from January 1 to May 15, 1998. The project is to develop web-based CSD 101E - an electronic version of CSD 101: Computers and Data Processing, for the amount of $3,000.

6/1997 Co-Principal Investigator for the Marshall University Special Project for Integrated Science Course development, from July 1, 1997 to June 30, 1998. The grant, for the amount of $20,000, is to develop computer-based prototype models to simulate various real-life environmental scenarios on DNA analysis and water quality analysis.

2/1997 Principal Investigator for the West Virginia Space Grant Consortium. The grant, for the amount of $500.00, is awarded for attending the 1997 ACM SIGAPP and SIGCSE conference to present a paper at SIGCSE. The conference was held in San Jose, California, February 27 - March 3, 1997.

1/1997 Co-Principal Investigator for the West Virginia State Higher Education Central Office, under Technology Advantage Program, from January 1 to June 30, 1997, for the amount of $159,961. The grant is to develop Interactive Distance Learning Classroom (IDLC) using computer-based educational models in the areas of Computer Science, Chemistry, Physics, and History. The target audience is high school students and college first-year students.

1/1997 Co-Principal Investigator for the West Virginia State Higher Education Central Office, under Technology Advantage Program, from January 1 to June 30, 1997, for the amount of $159,631. The grant is to develop Technology-Dependent Models for Integrated Science Education. The models primarily support Integrated Science Courses for non-science students. However, the models are also appropriate for community college, high school, and middle school students.

9/1996 Co-Principal Investigator for the DoD EPSCoR, under grant number DHHA04-96-1-0419, from September 1, 1996 to August 31, 2000, for the amount of $257,576. The grant is to establish "The Center for Excellence in Software Evolution". The objective of the center is to facilitate systematic construction of software systems that are able to evolve gracefully to meet changing needs, and to empirically study the effectiveness of such construction techniques for evolution.

8/1996 Investigator for the West Virginia Department of Health and Human Resources (DHHR) on the "Enterprise Information Architecture", under contract from DHHR, from September 1, 1996 to January 31, 1997, for the amount of $285,705. The project is to conduct information analysis of information elements within DHHR; Perform policies and procedures analysis; Conduct workflow analysis of DHHR paperwork and filing systems; Survey computing systems and communication resources; and Survey available Decision Support Systems (DSS) that may have potential use through DHHR.

7/1996 Co-Principal Investigator for the Marshall University Special Project, "Interactive Distance Learning Classroom", from July 1, 1996 to May 31, 1997. The grant, for the amount of $26,000, is to develop and offer a set of courseware over the Internet for a wide range of students. The project includes faculty from the Departments of Computer Science, Chemistry, History, and Physics.

5/1996 Principal Investigator for the Graduate School Office at Marshall University. The grant, for the amount of $2,000, is to conduct summer research project investigating the visualization of tree-based data structures for the purpose of learning and instruction.

3/1996 Investigator for the Marshall University Center for Environmental Geotechnical, and Applied Sciences, "Development of Health, Safety and Environmental Protocol for the US Navy Fire Support Program - Phase I", Navy Ordnance, Louisville, KY, under subcontract No. 51-96-S-0022-A from MIR Incorporation, under U.S. government contract No. N00164-93-1D-0005-0049, from January 1 to April 30, 1996, for the amount of $60,155.00. This phase of the project is to develop an initial draft for Health, Safety, and Environmental Protocol (HSEP). The protocol is a life-cycle assessment tool to evaluate HSE impacts, performance, and cost effectiveness associated with the use of government furnished materials and operating systems in the Naval Surface Weapons Support Program. The protocol incorporates mitigation procedures and process for health, safety, and environment impacts.

1/1996 Investigator for the Marshall University Integrated Science Course development team, "Development of Computer Model for Integrated Science Courses (ISC)", from January 1, 1996 to August 23, 1996. The project is to develop a computer-based prototype model to simulate various real-life environmental scenarios for Integrated Science Courses.

1/1996 Principal Investigator for the West Virginia Space Grant Consortium. The grant, for the amount of $750.00, is awarded for attending tutorials on "Multimedia Applications" and "Programming Languages for Parallel Processing". The tutorials are sponsored by ACM SIGAPP and SIGCSE and held during the ACM Computing Week, Philadelphia, Pennsylvania, February 14 - 21, 1996.

11/1995 Co-Principal Investigator for the Software Productivity Consortium, subcontract through Strictly Business Inc. of Huntington, from November 1, 1995 to March 31, 1996, for the amount of $23,934. This phase of the project is to develop materials to support teachers who will participate in the Megaprogramming Education Project and teach courses on Domain Analysis and Domain Design. The developed materials support Megaprogramming Education in software engineering programs in high schools and colleges.

8/1995 Principal Investigator for the West Virginia Grant Consortium for research initiation grant, from August 15, 1995 to August 15, 1996. The grant, for the amount of $20,000, is awarded for building an instructional tool to visually illustrate object-oriented concepts that represent the structure and behavior of a system. The tool will include an easy-to-use graphical user interface, input tool for reading inputs from a database of illustrative sample exercises, and a conversion tool to convert object-oriented concepts into visual format.

5/1995 Investigator for Strictly Business Corporation on "Support of Megaprogramming Education project", subcontract through Strictly Business Inc. of Huntington, from June 5 to September 1, 1995, for the amount of $10,000. The project focus is on Megaprogramming education in software engineering programs. The first phase of the project

involves several tasks including research of existing literature and projects furthering Megaprogramming education, a plan for designing educational materials to support Megaprogramming education, and other tasks.

1/1995 A mini-grant from the West Virginia Grant Consortium for research capability enhancement. The grant, for the amount $750, is awarded for attending a tutorial on "Object-Oriented Programming Using Ada 9X", presented by Brad Balfour from CACI Inc. The tutorial introduces experienced Ada 83 programmers to the basics of object-oriented programming as implemented in the Ada 9X programming language. The tutorial is sponsored by ACM SIGAda and is one of a series of pre-symposium tutorials associated with the ACM/SIGAPP Symposium on Applied Computing, held in Nashville, TN, February 26, 1995.

6/1994 A Summer Research Award from the Graduate School Office at Marshall University. The award, for the amount of $2,000, is awarded for conducting independent summer research project investigating reuse of abstract data types and their implementations. The project is to develop and present a Grid-Based Management System for Reuse of Abstract Data Type. The presented model provides software designer with necessary information about abstract data types and their different implementations.

1/1994 A mini-grant from the West Virginia Grant Consortium for research capability enhancement. The grant, for the amount of $1,000, is awarded to attend a tutorial on "Software Reuse Perspectives and Research Opportunities", presented by Will Tracz, IBM Federal Systems Company. The tutorial analyzes the technical and non-technical factors to be addressed when transitioning software reuse into practice, and it assesses the technology advances in Japanese and US software industries during 1993. The tutorial is one of a series of pre-symposium tutorials associated with the ACM/SIGAPP Symposium on Applied Computing, held in Phoenix, Arizona, March 6, 1994.

7/1993 Investigator for the US Army Corps of Engineers on "Training Plans and Materials for the PROgram and project Management Information System (PROMIS)" project, phase one, from July 1, 1993 to March 31, 1994. The project, for the amount of $391,084.17, is to develop training materials and student lessons for PROMIS. The project includes two parts: Lesson plans and materials for project and technical managers, and lesson plans and material for system administrators. This contract is one of three contacts from the US Army Corps of Engineers Waterways Experiment Station (WES), Vicksburg, Mississippi. Contract No. DACW69-90-D-0012. Work Order No. MSC3-031.

11/1992 Investigator for the US Army Corps of Engineers (USACE) on "Ada migration options and costs for USACE" project, from November 1, 1992 to May 31, 1993. The project, for the amount of $70,000, is to survey and evaluate government, industry, and academe regarding past experiences in retraining non-Ada literal workforce, document same and propose alternatives for the systematic retraining of USACE automation and engineering personnel to the use of the new standard. The project included a survey of existing Ada compilers and CASE tools, a set up an outline for training technical and managerial staff in aspects of software engineering and Ada, and a proposal for a minimal Software Engineering Environment (SEE) to accomplish the outlined training program. This contract from the US Army Corps of Engineers Waterways Experiment Station (WES), Vicksburg, Mississippi. Contract No. DACW69-90-0012. Work Order No. MSC3-024.

PROFESSIONAL ACTIVITIES

2026 *Editorial Board Member* of the International Journal of Speech Technology (IJST).
2026 *Associate Editor* of the ACM SIGAPP Applied Computing Review (ACR) Journal.
2026 A*dvisory Committee Member* the ACM Special Interest Group on Applied Computing (SIGAPP).

2025 *Editorial Board Member* of the International Journal of Speech Technology (IJST).
2025 *Associate Editor* of the ACM SIGAPP Applied Computing Review (ACR) Journal.
2025 *Editorial Review Board Member* of the International Journal of Software Engineering (IJSE).
2025 A*dvisory Committee Member* the ACM Special Interest Group on Applied Computing (SIGAPP).
2025 *Reviewer* for the World Multi-Conference on Systemics, Cybernetics and Informatics (WMSCI 2025).
2025 *Reviewer* for the International Multi-Conference on Complexity, Informatics and Cybernetics (IMCIC 2025).

2024 *Editorial Board Member* of the International Journal of Speech Technology (IJST).
2024 *Associate Editor* of the ACM SIGAPP Applied Computing Review (ACR) Journal.
2024 *Editorial Review Board Member* of the International Journal of Software Engineering (IJSE).
2024 A*dvisory Committee Member* the ACM Special Interest Group on Applied Computing (SIGAPP).
2024 *Webmaster* of ACM Special Interest Group on Applied Computing (SIGAPP) (ended October 31, 2024).
2024 *Reviewer* for the World Multi-Conference on Systemics, Cybernetics and Informatics (WMSCI 2024).
2024 *Reviewer* for the International Multi-Conference on Complexity, Informatics and Cybernetics (IMCIC 2024).

2023 *Editorial Board Member* of the International Journal of Speech Technology (IJST).
2023 *Associate Editor* of the ACM SIGAPP Applied Computing Review (ARC) Journal.
2023 *Associate Editor and contributor* to the ACM SIGAPP Applied Computing Review (ACR) publication.
2023 *Editorial Review Board Member* of the International Journal of Software Engineering (IJSE).
2023 *Steering Committee Member* the ACM Symposium on Applied Computing (SAC).
2023 *Webmaster* of ACM Special Interest Group on Applied Computing (SIGAPP).
2023 *Executive Committee Member* of the ACM Special Interest Group on Applied Computing (SIGAPP).
2023 *Reviewer* for the World Multi-Conference on Systemics, Cybernetics and Informatics (WMSCI 2023).

2022 *Editorial Board Member* of the International Journal of Speech Technology (IJST).
2022 *Associate Editor* of the ACM SIGAPP Applied Computing Review (ARC) Journal.
2022 *Associate Editor and contributor* to the ACM SIGAPP Applied Computing Review (ACR) publication.
2022 *Editorial Review Board Member* of the International Journal of Software Engineering (IJSE).
2022 *Steering Committee Member* the ACM Symposium on Applied Computing (SAC).
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2022 *Executive Committee Member* of the ACM Special Interest Group on Applied Computing (SIGAPP).
2022 *Reviewer* for the World Multi-Conference on Systemics, Cybernetics and Informatics (WMSCI 2022).
2022 *Reviewer* for the International Multi-Conference on Complexity, Informatics and Cybernetics (IMCIC 2022).

2021 *Editorial Board Member* of the International Journal of Speech Technology (IJST).
2021 *Associate Editor* of the ACM SIGAPP Applied Computing Review (ARC) Journal.
2021 *Associate Editor and contributor* to the ACM SIGAPP Applied Computing Review (ACR) publication.
2021 *Editorial Review Board Member* of the International Journal of Software Engineering (IJSE).
2021 *Steering Committee Member* the ACM Symposium on Applied Computing (SAC).
2021 *Webmaster* of ACM Special Interest Group on Applied Computing (SIGAPP).
2021 *Executive Committee Member* of the ACM Special Interest Group on Applied Computing (SIGAPP).
2021 *Reviewer* for the World Multi-Conference on Systemics, Cybernetics and Informatics (WMSCI 2021).

2020 *Editorial Board Member* of the International Journal of Speech Technology (IJST).
2020 *Associate Editor* of the ACM SIGAPP Applied Computing Review (ARC) Journal.
2020 *Associate Editor and contributor* to the ACM SIGAPP Applied Computing Review (ACR) publication.
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2020 *Executive Committee Member* of the ACM Special Interest Group on Applied Computing (SIGAPP).
2020 *Reviewer* for the Multi-Conference on Complexity, Informatics and Cybernetics (IMCIC 2020).
2020 *Reviewer* for the World Multi-Conference on Systemics, Cybernetics and Informatics (WMSCI 2020).

2019 *Steering Committee Member* of the ACM Symposium on Applied Computing (SAC).
2019 *Webmaster* of the ACM Special Interest Group on Applied Computing (SIGAPP).
2019 *Executive Committee Member* of the ACM Special Interest Group on Applied Computing (SIGAPP).
2019 *Editorial Board Member* for the International Journal of Speech Technology (IJST).
2019 *Editorial Board Member* of the ACM Applied Computing Review (ACR).
2019 *Editorial Board Member* of the International Journal of Software Engineering (IJSE).
2019 *Technical Reviewer* for the ACM-SIGAPP Applied Computing Review (ACR).

2018 *Steering Committee Member* of the ACM Symposium on Applied Computing (SAC).
2018 *Webmaster* of the ACM Special Interest Group on Applied Computing (SIGAPP).
2018 *Executive Committee Member* of the ACM Special Interest Group on Applied Computing (SIGAPP).
2018 *Editorial Board Member* for the International Journal of Speech Technology (IJST).
2018 *Editorial Board Member* of the ACM Applied Computing Review (ACR).
2018 *Editorial Board Member* of the International Journal of Software Engineering (IJSE).
2018 *Technical Reviewer* for the ACM-SIGAPP Applied Computing Review (ACR).
2018 *Technical Reviewer* for the International Journal on Software Engineering (IJSE).
2018 *Technical Reviewer* for the International Multi-Conference on Complexity, Informatics and Cybernetics.

2017 *Co-Chair* of the ACM SAC Conference 2018.
2017 *Registrar* for the ACM SAC Conference 2018.
2017 *Steering Committee Member* of the ACM Symposium on Applied Computing (SAC).
2017 *Webmaster* of the ACM Special Interest Group on Applied Computing (SIGAPP).
2017 *Executive Committee Member* of the ACM Special Interest Group on Applied Computing (SIGAPP).

2017 *Editorial Board Member* for the International Journal of Speech Technology (IJST).
2017 *Editorial Board Member* of the ACM Applied Computing Review (ACR).
2017 *Editorial Board Member* of the International Journal of Software Engineering (IJSE).
2017 *Technical Reviewer* for the ACM-SIGAPP Applied Computing Review (ACR).
2017 *Technical Reviewer* for the International Journal on Software Engineering (IJSE).
2017 *Technical Reviewer* for the International Multi-Conference on Complexity, Informatics and Cybernetics.

2016 *Coordinator and Planner for* the ACM SAC 2017 (s*ite visit)*, Marrakesh, Morocco, September 2016.
2016 *Executive Committee Member* of the ACM Special Interest Group on Applied Computing (SIGAPP).
2016 *Editorial Board Member* of the International Journal of Speech Technology (IJST).
2016 *Editorial Board Member* of the International Journal of Software Engineering (IJSE).
2016 *Editorial Board Member* of the ACM Applied Computing Review (ACR).
2016 *Associate Editor and contributor* to ACM SIGAPP Applied Computing Review (ARC) Journal.
2016 *Steering Committee Member* of the ACM Symposium on Applied Computing (SAC).
2016 *Treasurer and Registrar* for the ACM SAC Conference 2017.
2016 *Webmaster* for the ACM SAC Conference 2017.
2016 *Webmaster* of the ACM Special Interest Group on Applied Computing (SIGAPP).
2016 *Technical Reviewer* for the ACM SAC 2017.
2016 *Technical Reviewer* for the ACM-SIGAPP Applied Computing Review (ACR).
2016 *Technical Reviewer* for the International Journal on Software Engineering (IJSE).
2016 *Technical Reviewer* for the 8th International Multi-Conference on Complexity, Informatics and Cybernetics.

2015 *Coordinator and Planner for* the ACM SAC 2016 (s*ite visit)*, Pisa, Italy, September 2015.
2015 *Executive Committee Member* of the ACM Special Interest Group on Applied Computing (SIGAPP).
2015 *Associate Editor and contributor* to ACM SIGAPP Applied Computing Review (ARC) Journal.
2015 *Steering Committee Member* of the ACM Symposium on Applied Computing (SAC).
2015 *Editorial Board Member* of the ACM Applied Computing Review (ACR).
2015 *Editorial Board Member* of the International Journal of Speech Technology (IJST).
2015 *Editorial Board Member* of the International Journal of Software Engineering (IJSE).
2015 *Treasurer and Registrar* for the ACM SAC Conference 2016.
2015 *Webmaster* for the ACM SAC Conference 2016.
2015 *Webmaster* of the ACM Special Interest Group on Applied Computing (SIGAPP).
2015 *Technical Reviewer* for the ACM-SIGAPP Applied Computing Review (ACR).
2015 *Technical Reviewer* for the ACM SAC 2016.
2015 *Technical Reviewer* for the International Journal on Software Engineering (IJSE).
2015 *Technical Reviewer* for the International Multi-Conference on Complexity, Informatics and Cybernetics (IMCIC).

2014 *Coordinator and Planner for* the ACM SAC 2015 (s*ite visit)*, Salamanca, Spain, September 2014.
2014 *Steering Committee Member* of the ACM Symposium on Applied Computing (SAC).
2014 *Editorial Board Member* of the ACM Applied Computing Review (ACR).
2014 *Treasurer and Registrar* for the ACM SAC Conference 2015.
2014 *Webmaster* for the ACM SAC Conference 2015.
2014 *Webmaster* of the ACM Special Interest Group on Applied Computing (SIGAPP).
2014 *Technical Reviewer* for the ACM SAC 2015.
2014 *Technical Reviewer* for the ACM-SIGAPP Applied Computing Review (ACR).
2014 *Technical Reviewer* for the International Journal on Software Engineering.
2014 *Technical Reviewer* for the World Multi-Conference on Systemics, Cybernetics and Informatics (WMSCI).
2014 *Technical Reviewer* for the International Multi-Conference on Complexity, Informatics and Cybernetics (IMCIC).
2014 *Presenter* at the 2013 IEEE International Conference on Information Technology: New Generations (ITNG 2014), Las Vegas, Nevada, April 2014.

2013 *Coordinator and Planner for* the ACM SAC 2014 (s*ite visit)*, Gyeongju, Korea, September 2013.
2013 *Steering Committee Member* of the ACM Symposium on Applied Computing (SAC).
2013 *Editorial Board Member* of the ACM Applied Computing Review (ACR).
2013 *Treasurer and Registrar* for the ACM SAC Conference 2014.
2013 *Webmaster* for the ACM SAC Conference 2014.
2013 *Webmaster* of the ACM Special Interest Group on Applied Computing (SIGAPP).
2013 *Technical Reviewer* for the ACM-SIGAPP Applied Computing Review (ACR).
2013 *Technical Reviewer* for the International Journal on Software Engineering.
2013 *Technical Reviewer* for the Supercomputing Journal.
2013 *Technical Reviewer* for the Robotics and Autonomous Systems journal.

2013 *Technical Reviewer* for the International Institute of Informatics and Systemics (IIIS) Conference.
2013 *Technical Reviewer* for the 15th World Multi-Conference on Systemics, Cybernetics and Informatics (WMSCI).
2013 *Technical Reviewer* for the ACM SAC 2014.
2013 *Presenter* at the 2013 IEEE International Conference on Information Technology: New Generations (ITNG), Las Vegas, Nevada, April 2013.
2013 *Session Chair* for the SE Track of the IEEE International Conference on Information Technology: New Generations (ITNG 2013).

11/12 *Judging* the student research posters (first round) and student presentations (second round) at the 26th Annual CCSC: Southeastern Conference, Southern Polytechnic State University. November 2-3, 2012.
11/12 *Associate Editor* of (and contributor to) the ACM SIGAPP Applied Computing Review Journal, Vol. 12, No. 4, 2012.
10/12 *Invited speaker* by Soongsil University CS department to deliver a talk to their graduate students (October 2012).
9/12 *Coordinator and Planner for* the ACM SAC 2013 Conference (site visit activity), Coimbra, Portugal.
9/12 *Associate Editor and contributor* to the ACM SIGAPP Applied Computing Review, Fall 2012 issue.
9/12 Technical reviewer for the IASTED Software Engineering and Applications conference.
8/12 *Technical Reviewer* for the International Journal on Software Engineering (IJSE).
8/12 *Associate Editor* of (and contributor to) the ACM SIGAPP Applied Computing Review Journal, Vol. 12, No. 3, 2012.
7/12 *Associate Editor and contributor* to the SIGAPP Applied Computing Review.
7/12 *Member of the Editorial Board* of the International Journal of Software Engineering (IJSE), July 2011.
5/12 *Technical Reviewer* for the International Journal on Software Engineering (IJSE).
4/11 *Program Committee Member* of the ACM SAC 2013 Conference, Coimbra, Portugal, March 2013.
4/12 *Treasurer and Webmaster* for the ACM Symposium on Applied Computing, Coimbra, Portugal, March 2013.
4/12 *Webmaster* for the ACM Special Interest Group on Applied Computing (SIGAPP).
4/12 *Associate Editor* of (and contributor to) the ACM SIGAPP Applied Computing Review Journal, Vol. 12, No. 2, 2012.
3/12 *Technical Reviewer* for the International Conference on Systemics, Cybernetics and Informatics **(**WMSCI 2012), Orlando, Florida, July 2012.
3/12 *Member of the Steering Committee* of the ACM Symposium on Applied Computing (SAC).
3/12 *Technical Reviewer* for the International Journal on Software Engineering (IJSE).
2/12 *Associate Editor* of the ACM SIGAPP Applied Computing Review Journal, Vol. 12, No. 1, 2012.
2/12 *Technical Reviewer* for the International Conference on Systemics, Cybernetics and Informatics **(**WMSCI 2012), Orlando, Florida, July 2012.
2/12 *Technical Reviewer* for the International Symposium on Integrating Research, Education, and Problem Solving (IREPS 2012).
1/12 Member of the Editorial Board of the International Journal of Speech Technology (IJST).
1/12 *Technical Reviewer* for the ACM SE Conference.
1/12 *Technical Reviewer* for the International Symposium on Integrating Research, Education, and Problem Solving (IREPS 2012).
1/12 *Technical Reviewer* for the International Symposium on Interdisciplinary Research, Education, and Communication (IDREC 2012).

10/11 *Session Chair* for the Intellectbase International Consortium Academic Conference (IICAC), Atlanta, GA, October 2011.
10/11 *Tenure and Promotion External Evaluator* for T&P application for Professor Manki Min, South Dakota State University, Brookings, South Dakota.
9/11 *Associate Editor and contributor* to the ACM SIGAPP Applied Computing Review, Fall 2011 issue.
9/11 *Coordinator and Planner for* the ACM SAC 2012 Conference (site visit activity), Riva del Garda, Italy.
8/11 *Guest-Editor* of a special issue of the International Journal of Software Engineering (IJSE), Vol. 5, No. 1, January 2012.
8/11 *Ph.D. Thesis Evaluator.* External evaluator for Ph.D. Thesis, University of Central Punjab, Lahore, Pakistan, August 2011.
7/11 *Tenure and Promotion External Evaluator*. External evaluator for T&P application, University of South Carolina, Aiken, South Carolina, July 2011.
7/11 *Member of the Editorial Board* of the International Journal of Software Engineering (IJSE), July 2011.
6/11 *Technical reviewer* for the ACM Conference on Innovation and Technology in Computer Science Education (ITiCSE), Darmstadt, Germany, June 2011.
5/11 *Technical Reviewer* for the International Journal on Software Engineering (IJSE).
4/11 *Program Committee Member* of the ACM SAC 2012 Conference, Trento, Italy, March 2012.
4/11 *Treasurer and Webmaster* for the ACM Symposium on Applied Computing, Trento, Italy, March 2012.
4/11 *Webmaster* for the ACM Special Interest Group on Applied Computing (SIGAPP).
4/11 *Technical Reviewer* for the Journal of Software and Systems (JSS).
3/11 *Member of the Steering Committee* of the ACM Symposium on Applied Computing (SAC).

4/11 *Technical Reviewer* for the International Conference on Systemics, Cybernetics and Informatics **(**WMSCI 2011), Orlando, Florida, July 2011.
4/11 *Session Chair* of the Software Engineering Track of the International Conference on Information Technology: New Generations (ITNG 2011), Las Vegas, April 2011.
3/11 *Technical reviewers* for the International Conference on SE and Data Engineering (SEDE 2011), Las Vegas, Nevada, June 2011.
2/11 *Technical Reviewer* for the International Journal on Software Engineering (IJSE).

11/10 *Technical reviewer* for the 2010 International Multi-Conference on Complexity, Informatics and Cybernetics: (IMCIC 2011), Orlando, Florida, March 2011.
11/10 *Tutorial Reviewer* for the ACM SAC 2011 Tutorials Program, Taichung, Taiwan, March 2010.
10/10 *Technical Reviewer* for the ACM SAC 2011 Tutorials Program, Taichung, Taiwan, March 2010.
9/10 *Technical Reviewer* for the ACM Conference on Computer Science Education (SIGCSE 2010).
9/10 *Coordinator and Planner for* the ACM SAC 2011 Conference (site visit activity), Taichung, Taiwan.
7/10 *Track Co-Chair* of the Software Engineering Track of the IEEE International Conference on Information Technology: New Generations (ITNG 2011), Las Vegas, April 2011.
5/10 *Technical Reviewer* for the International Journal on Software Engineering (IJSE).
4/10 *Technical reviewers* for the International Conference on SE and Data Engineering (SEDE 2010), San Francisco, CA, June 2010.
4/10 *Webmaster* for the ACM Special Interest Group on Applied Computing (SIGAPP).
4/10 *Program Committee Member* of the ACM SAC 2011 Conference, Taichung, Taiwan, March 2011.
4/10 *Treasurer and Webmaster* for the ACM Symposium on Applied Computing, Taichung, Taiwan, March 2011.
3/10 *Member of the Steering Committee* of the ACM Symposium on Applied Computing (SAC).
2/10 *Technical program referee* for the ACM ITiCSE Conference, Ankara, Turkey, June 2010.
1/10 *Member of the Editorial Board* of the International Journal of Speech Technology.
1/10 *Technical Reviewer* for the International Conference on Systemics, Cybernetics and Informatics **(**WMSCI 2010), Orlando, Florida, July 2010.

11/09 *Technical reviewer* for the 2010 International Multi-Conference on Complexity, Informatics and Cybernetics: (IMCIC 2010), Orlando, Florida, April 2010.
11/09 *Tutorial Reviewer* for the ACM SAC 2010 Tutorials Program, Sierre, Switzerland, March 2010.
10/09 *Guest Editor* of the International Journal of Software Engineering (IJSE), Vol. 2, No. 3, December 2009.
10/09 *Technical Reviewer* for the ACM SAC 2010 Conference, Sierre, Switzerland, March 2010.
9/09 *Technical Reviewer* for the ACM Conference on Computer Science Education (SIGCSE 2009).
9/09 *Program Committee Member* of the International Conference on SE and Data Engineering (SEDE 2010), San Francisco, CA, July 2010.
8/09 *Track Co-Chair* of the Software Engineering Track of the IEEE International Conference on Information Technology: New Generations (ITNG 2010), Las Vegas April 2010.
10/09 *Program Committee Member* of the ACM SAC 2010 Conference, Sierre, Switzerland, March 2010.
4/09 *Technical Reviewers* for the International Conference on SE and Data Engineering (SEDE 2009).
4/09 *Webmaster* for the ACM Special Interest Group on Applied Computing (SIGAPP).
3/09 *Treasurer and Webmaster* for the ACM Symposium on Applied Computing, Sierre, Switzerland, March 2010.
2/09 *Technical Reviewer* for Super Computing Journal.
2/09 *Technical program referee* for the ACM ITiCSE Conference, Paris, France, July 2009.
1/09 *Technical Reviewer* for the International Conference on Systemics, Cybernetics and Informatics **(**WMSCI 2009), Orlando, Florida, July 2009.

12/08 *Technical Reviewer* for the Southern AIS Conference (SAIS 2009).
11/08 *Technical Reviewer* for the ACM SAC 2009 Conference, Honolulu, Hawaii, March 2009.
11/08 *Technical Reviewer* for the Journal of International Measurement Confederation.
9/08 *Program Committee* Member of the 2009 International Conference on Software Engineering and Data Engineering (SEDE), Las Vegas, Nevada, July 2009.
9/08 *Technical Reviewer* for the ACM Conference on Computer Science Education (SIGCSE 2009).
8/08 *Program Committee Member* of the Software Engineering Track of the IEEE International Conference on Information Technology: New Generations (ITNG 2009), Las Vegas April 2009.
4/08 *Webmaster* for the ACM Special Interest Group on Applied Computing (SIGAPP).
4/08 *Technical Reviewer* for 2008 International Conference on SE and Data Engineering (SEDE 2008).
3/08 *Treasurer and Webmaster* for the ACM Symposium on Applied Computing, Honolulu, Hawaii, March 2009.
2/08 *Technical reviewer* for the ACM ITiCSE Conference, Madrid, Spain, July 2008.
1/08 *Technical Reviewer* for the 2008 International Conference on Systemics, Cybernetics and Informatics **(**WMSCI), Orlando, Florida, July 2008.

11/07 *Tutorial Reviewer* for the ACM SAC 2008 Tutorials Program.
11/07 *Technical Reviewer* for the 2008 IEEE International Conference on Information Technology: New Generations (ITNG 2008), Las Vegas April 2008.
9/07 *Program Committee Member* of the 16th International Conference on Software Engineering and Data Engineering (SEDE 2008), Los Angeles, CA, June 2008.
9/07 *Technical program referee* for the Annual ACM SIGCSE Symposium, Cincinnati, Portland. Oregon, March 2008.
7/07 *Technical reviewer* for the International Journal of Web Information Systems (IJWIS).
6/07 *Program Committee Member* of the Software Engineering Track of the IEEE International Conference on Information Technology: New Generations (ITNG 2008), Las Vegas April 2008.
6/07 *Presenter* at the International Conference on Software Engineering Research and Practice, LV, June 2007.
4/07 *General Co-Chair and Treasurer* for the ACM Symposium on Applied Computing, Fortaleza, Brazil, March 2008.
3/07 *Webmaster* for the ACM Special Interest Group on Applied Computing (SIGAPP).
3/07 *Webmaster* for the ACM Symposium on Applied Computing, Fortaleza, Brazil, March 2008.
2/07 *Technical reviewer* for the 2008 International Conference on Systemics, Cybernetics and Informatics **(**WMSCI), Orlando, Florida, July 2007.
2/07 *Technical program referee* for the ACM ITiCSE Conference, Bologna, Italy, June 2007.

10/06 *Technical program referee* for the IEEE SITIS Conference, Hammamet Tunisia, Tunisia, December 2006.
9/06 *Technical program referee* for the 2007 ACM SAC Conference, Seoul, Korea, March 2007.
9/06 *Technical program referee* for the Annual ACM SIGCSE Symposium, Cincinnati, Ohio, March 2007.
7/06 *Program Committee Member and Technical program referee* for the IEEE SITIS Conference, Hammamet Tunisia, Tunisia, December 2006.
7/06 *Program Committee* Member of the 2007 International Conference on Software Engineering and Data Engineering (SEDE), held in Las Vegas, Nevada, July 2007.
7/06 *Presenter* at the World Multiconference on Systemics and Cybernetics and Informatics, Orlando, FL, July 2006.
6/06 *Presenter* at the International Conference on Software Engineering Research and Practice, LV, June 2006.
4/06 *Program Committee* Member of the InfoSecCD Conference, Kennesaw, Georgia, September 2006.
4/06 *General Co-Chair and Treasurer* for the ACM Symposium on Applied Computing, Seoul, Korea, March 2007.
4/06 *Webmaster* for the ACM Symposium on Applied Computing, Seoul, Korea, March 2007.
3/06 *Webmaster* for the ACM Special Interest Group on Applied Computing (SIGAPP).
3/06 *Program Committee* Member of the IEEE SITIS Conference, Hammamet Tunisia, Tunisia, December 2006.
2/06 *Technical program referee* for the ACM ITiCSE Conference, Bologna, Italy, June 2006.
1/06 *Technical program referee* for the 2006 WMSCI Conference, Orlando, Florida, June 2006.

12/05 *Technical program referee* for the 2006 ACMSE Conference, Melbourne, Florida, March 2006.
9/05 *Technical program referee* for the 2006 ACM SAC Conference, Dijon, France, April 2006.
7/05 *Technical program referee* for the 2006 ACM SIGCSE Conference, Huston, Texas, March 2006.
6/05 *Technical program referee* for the 2005 IEEE SITIS Conference, Yaoundé, Cameroon, November 2005.
6/05 *Webmaster* for the ACM Special Interest Group on Applied Computing (SIGAPP).
5/05 *Treasurer* for the 2006 ACM Southeastern Conference (ACMSE), Melbourne, Florida, March 2006.
4/05 *Program Committee* Member of the InfoSecCD Conference, Kennesaw, Georgia, September 2005.
4/05 *General Chair and Treasurer* for the ACM Symposium on Applied Computing, Dijon, France, April 2006.
4/05 *Webmaster* for the ACM Symposium on Applied Computing, Dijon, France, April 2006.
4/05 *Program Committee* Member of the IEEE SITIS Conference, Yaoundé, Cameroon, November 2005.
3/05 *Technical program referee* for the MWSCI Conference, Orlando, Florida, June 2005.

12/04 *Technical program referee* for the ACMSE Conference, Kennesaw, Georgia, 2005.
11/04 *Technical program referee* for the ACM ITiCSE Conference, Caparica, Portugal, June 2005.
9/04 *Technical program referee* for the ACM SAC 2005 Conference, Santa Fe, New Mexico, 2005.
8/04 *Webmaster* for the ACM SAC 2005 Conference, Santa Fe, New Mexico, March 2005.
7/04 *Technical program referee* for the Annual ACM SIGCSE Symposium, St. Lois, Missouri, March 2005.
7/04 *Presenter* at the World Multiconference on Systemics and Cybernetics and Informatics, Orlando, FL, July 2004.
6/04 *Webmaster* for the ACM Special Interest Group on Applied Computing (SIGAPP).
6/04 *Presenter* at the International Conference on Software Engineering Research and Practice, LV, June 2004.
4/04 *Treasurer* for the 2005 ACM Southeastern Conference (ACMSE), Kennesaw, GA, March 2005.
3/04 *General Chair and Treasurer* for the ACM Symposium on Applied Computing, Santa Fe, NM, March 2005.

9/03 *Technical reviewer* for the Journal of Software Quality, published by the Kluwer Academic Publishers.
8/03 *Technical program referee* for the Annual ACM SIGCSE Symposium, Norfolk, Virginia, March 2004.
6/03 *Session chair* at the International Conference on Software Engineering Research and Practice, LV, June 2003.

6/03 *Presenter* at the International Conference on Software Engineering Research and Practice, LV, June 2003.
6/03 *Webmaster* for the ACM Special Interest Group on Applied Computing (SIGAPP).
3/03 *Technical program chair, Webmaster, and Treasurer* for the Annual ACM Symposium on Applied Computing, Melbourne, Florida, March 2003.
3/03 *Executive committee member* of the ACM Symposium on Applied Computing, Melbourne, Florida, March 2003.

9/02 *Technical program referee* for the Annual ACM Symposium on Applied Computing, Melbourne, FL, Mar 2003.
7/02 *Technical program referee* for the Annual ACM SIGCSE Symposium, Reno, Nevada, February 2003.
6/02 *Session chair* at the International Conference on Software Engineering Research and Practice, LV, June 2002.
6/02 *Program committee member* of the International Conference on Software Engineering Research and Practice, Las Vegas, June 2002.
4/02 *Treasurer* of the ACM Special Interest Group on Applied Computing (SIGAPP).
3/02 *Technical program chair* for the Annual ACM Symposium on Applied Computing, Madrid, Spain, March 2002.
3/02 *Executive committee member* of the ACM Symposium on Applied Computing, Madrid, Spain, 2002.
2/02 *Technical program referee* for the Annual CCSC Southeastern Conference, Greenville, SC, November 2002.

5/01 *Member of Editorial Board* for SIGAPP Applied Computing Review.
4/01 *Treasurer* of the ACM Special Interest Group on Applied Computing (SIGAPP).
3/01 *Technical program chair* for the Annual ACM Symposium on Applied Computing, Las Vegas, NV, March 2001.
3/01 *Executive committee member* of the ACM Symposium on Applied Computing, Las Vegas, Nevada, March 2001.

11/00 *Session chair* at the IASTED International Conference: Internet and Multimedia Systems and Applications, Las Vegas, Nevada, November 2000.
6/00 *Presenter* at the National Educational Computing Conference, Atlanta, GA, June 2000.
4/00 *Technical program referee* for the Midwest Small College Computing Conference, Franklin, Indiana, Sept 2000.
4/00 *Technical program committee member* for the 1st Symposium *on Reusable Architectures and Components for Developing Distributed Information Systems,* Orlando, Florida, July 2000.
3/00 *Presenter* at the Annual ACM SIGCSE Symposium, Austin, Texas, March 2000.
3/00 *Technical program chair* for the Annual ACM Symposium on Applied Computing, Lake Como, Italy, March 2000.
3/00 *Executive committee member* of the ACM Symposium on Applied Computing, Lake Como, Italy, March 2000.

10/99 *Presenter* at the West Virginia Science Teachers Association Conference, Charleston, West Virginia, Oct 1999.
10/99 *Co-Editor* of Applied Computing Reviews: Newsletter of the ACM Special Interest Group on Applied Computing. Vol. 7, No. 3, Fall 1999.
8/99 *Presenter* at the International Conference on Information System Analysis and Synthesis, Orlando, FL, July 1999.
7/99 *Session Co-Chair* for the International Conference on Information System Analysis and Synthesis, Orlando, Florida, July 1999.
7/99 *Technical program referee* for the Annual ACM SIGCSE Symposium, Austin, Texas, March 2000.
7/99 *Co-Editor* of Applied Computing Reviews: Newsletter of the ACM Special Interest Group on Applied Computing. Vol. 7, No. 2, Summer 1999.
6/99 *Member of Editorial Board* for SIGAPP Applied Computing Review.
5/99 *Book Review:* Introduction to Computer Science with C++, 2000 Edition.
4/99 *Technical program committee member* for the 1st Symposium *on Reusable Architectures and Components for Developing Distributed Information Systems (RACDIS'99),* Orlando, Florida, July 1999.
4/99 *Treasurer* of the ACM Special Interest Group on Applied Computing (SIGAPP).
3/99 *Technical program referee* for the Midwest Small College Computing Conference, Franklin, Indiana, Sep 1999.
2/99 *Executive committee member* of the ACM Symposium on Applied Computing, San Antonio, TX, Feb 1999.
2/99 *Session and Track Chair* for the Annual ACM Symposium on Applied Computing, San Antonio, TX, Feb 1999.
2/99 *Co-Editor* of Applied Computing Reviews: Newsletter of the ACM Special Interest Group on Applied Computing. Vol. 7, No. 1, Spring 1999.

10/98 *Co-Editor* of Applied Computing Reviews: Newsletter of the ACM Special Interest Group on Applied Computing. Vol. 6, No. 2, Fall 1998.
10/98 *Book Review:* Introduction to Computer Science with C++, 1999 Edition.
9/98 *Book Review:* Programming and Problem Solving with Ada 95, 1999 Edition.
7/98 *Technical program referee* for the Annual ACM SIGCSE Symposium, New Orleans, Louisiana, March 1999.
5/98 *Member of Editorial Board* for SIGAPP Applied Computing Review.
3/98 *Technical program referee* for the Annual Midwest Small College Computing Conference, Spring Arbor, Michigan, September 1998.
3/98 *Treasurer* of the ACM Special Interest Group on Applied Computing (SIGAPP).
2/98 *Chair and organizer* of the Software Engineering Track of the ACM Symposium on Applied Computing, Atlanta,

Georgia, February 1998.
2/98 *Session chair* for the Annual ACM Symposium on Applied Computing, Atlanta, Georgia, February 1998.
2/98 *Executive committee member* of the ACM Symposium on Applied Computing, Atlanta, Georgia, February 1998.
2/98 *Co-Editor* of Applied Computing Reviews: Newsletter of the ACM Special Interest Group on Applied Computing. Vol. 6, No. 1, Spring 1998.
1/98 *Book Review:* Computing Essentials by O'Leary, 1999 Edition.

10/97 *Co-Editor* of Applied Computing Reviews: Newsletter of the ACM Special Interest Group on Applied Computing. Vol. 5, No. 2, Fall 1997.
9/97 *Technical program referee* for the Annual ACM Computer Science Conference, San Jose, California, March 1998.
6/97 *Technical program referee* for the Journal of Systems and Software.
6/97 *Member of Editorial Board* for SIGAPP Applied Computing Review.
4/97 *Treasurer* of the ACM Special Interest Group on Applied Computing (SIGAPP).
3/97 *Session chair* at the Symposium on Applied Computing, San Jose, California, March 1997.
3/97 *Executive committee member* of the ACM Symposium on Applied Computing, San Jose, California, March 1997.
2/97 *Presenter* at the Annual SIGCSE Technical Symposium, San Jose, California, February 1997.
2/97 *Co-Editor* of Applied Computing Reviews: Newsletter of the ACM Special Interest Group on Applied Computing. Vol. 5, No. 1, Spring 1997.

6/96 *Presenter* at the third Annual Midwest Small College Computing Conference, GreenCastel, IN, September 1996.
4/96 *Treasurer* of the ACM Special Interest Group on Applied Computing (SIGAPP).
3/96 *Executive committee member* of the ACM Symposium on Applied Computing (SAC'96).
3/96 *Judge* for the Science Fair held at Fairland High School, Proctorville, Ohio, March 8, 1996.
2/96 *Session chair* at the Symposium on Applied Computing, Philadelphia, Pennsylvania, February 1996.

9/95 *Co-Chair and organizer* of the Programming Languages Track of the ACM Symposium on Applied Computing, Philadelphia, Pennsylvania, February 996.
9/95 *Technical program referee* for the ACM Symposium on Applied Computing, Philadelphia, PA, February 1996.
9/95 *Technical program referee* for the ACM Computer Science Conference, Philadelphia, PA, February 1996.
6/95 *Presenter* at the Annual ASEET Symposium, Morgantown, West Virginia, June 1995.
4/95 *Treasurer* of the ACM Special Interest Group on Applied Computing (SIGAPP).
3/95 *Executive committee member* of the ACM Symposium on Applied Computing (SAC'95).
2/95 *Presenter and session chair* at the joint ACM Computing Week (SAC/CSC/SIGCSE), Nashville, TN, Feb 1995.

10/94 *Technical program referee* for the Symposium on Software Reusability, Seattle, Washington, April 1995.
9/94 *Technical reviewer* for the Journal of Systems and Software, September 1994.
8/94 *Technical program referee* for the Annual SIGCSE Technical Symposium, Nashville, Tennessee, March 1995.
8/94 *Technical program referee* for the ACM Computer Science Conference, Nashville, Tennessee, February 1995.
8/94 *Technical program referee* for the ACM Symposium on Applied Computing, Nashville, Tennessee, February 1995.
4/94 *Treasurer* of the ACM Special Interest Group on Applied Computing (SIGAPP).
3/94 *Session chair* at the joint ACM Computing Week (SAC, CSC, and SIGCSE), Phoenix, Arizona, March 1994.
3/94 *Judge* for the High School Science Fair held at Fairland High School, Proctorville, Ohio, March 15, 1994.
3/94 *Technical program referee* for the 6th IEEE International Conference on Tools with Artificial Intelligence, New Orleans, Louisiana, November 1994.
2/94 *Technical program referee* for the Journal of Systems and Software, February 1994.
2/94 *Technical program referee* for the Midwest Small College Computing Conference, Fort Wayne, IN, Sep 1994.

8/93 *Technical program referee* for the ACM Symposium on Applied Computing, Phoenix, Arizona, March 1994.
2/93 *Presenter and session chair* at the ACM SAC/CSC joint meeting, Indianapolis, Indiana, February 1993.

8/92 *Technical program referee* for the 8th ACM Symposium on Applied Computing, Indianapolis, IN, Feb 1993.
3/92 *Presenter* at the ACM SAC/CSC joint meeting, Kansas City, Missouri, March 1992.

8/91 *Technical program referee* for the ACM Symposium on Applied Computing, Kansas City, Missouri, March 1992.
4/91 *Presenter* at the ACM Symposium on Applied Computing, Kansas City, Missouri, April 1991.

7/90 *Presenter* at the 7th International Conference on Systems Engineering, Las Vegas, Nevada, July 1990.
4/90 *Presenter* at the joint ACM/IEEE Symposium on Applied Computing, Fayetteville, Arkansas, April 1990.

8/89 *Technical program referee* for the ACM/IEEE Symposium on Applied Computing, Fayetteville, AK, April 1990.

CONFERENCES ATTENDED

7/22 (Virtual Conference) *IEEE Computers, Software, and Applications Conference (COMPSAC'22)*, July 2022.
3/22 (Virtual Conference) *The Annual ACM Symposium on Applied Computing (SAC'22)*, March 2022.

7/21 (Virtual Conference) *IEEE Computers, Software, and Applications Conference (COMPSAC'21)*, July 2021.
3/21 (Virtual Conference) *The Annual ACM Symposium on Applied Computing (SAC'21)*, March 2021.

7/20 (Virtual Conference) *IEEE Computers, Software, and Applications Conference (COMPSAC'20)*, July 2020.
3/20 (Virtual Conference) *The Annual ACM Symposium on Applied Computing (SAC'20)*, March 2020.

8/16 *The IEEE International Conference on Computer Communication and Networks (ICCCN)*, Waikoloa, Hawaii, August 2016.
6/16 *The IEEE Computer Society International Conference on Computers, Software and Applications (COMPSAC),* Atlanta, GA, USA, June 2016.
4/16 *The Annual ACM Symposium on Applied Computing (SAC'16)*, Pisa, Italy, April 2016.

4/15 *The Annual ACM Symposium on Applied Computing (SAC'15)*, Salamanca, Spain, April 2014.

4/14 *The International Conference on Information Technology: New Generations (ITNG'14)*, Las Vegas, Nevada, April 2014.
3/14 *The Annual ACM Symposium on Applied Computing (SAC'14)*, Gyeongju, Korea, March 2014.

5/13 *The 12th International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS), Salamanca, Spain, May 2013.*
4/13 *The International Conference on Information Technology: New Generations (ITNG'13)*, Las Vegas, Nevada, April 2013.
3/13 *The Annual ACM Symposium on Applied Computing (SAC'13)*, Coimbra, Portugal, March 2013.

11/12 The 26th Annual CCSC: Southeastern Conference, Southern Polytechnic State University. November 2012,
7/12 *The International Conference on Software Engineering Research and Practice (SERP'12)*, Las Vegas, Nevada, July 2012.
4/12 *The International Conference on Information Technology: New Generations (ITNG'12)*, Las Vegas, Nevada, April 2012.
3/12 *The Annual ACM Symposium on Applied Computing (SAC'12)*, Riva del Garda, Trento, Italy, March 2012.

10/11 *The Intellectbase International Consortium Academic Conference,* Atlanta, Georgia, October 2011.
7/11 *The International Conference on Software Engineering Research and Practice (SERP'11)*, Las Vegas, Nevada, July 2011.
4/11 *The IEEE International Conference on Information Technology: New Generations (ITNG'11)*, Las Vegas, Nevada, April 2011.
3/11 *The Annual ACM Symposium on Applied Computing (SAC'11)*, Taichung, Taiwan, March 2011.

12/10 *The Intellectbase International Consortium Academic Conference,* Las Vegas, Nevada, December 2010.
10/10 *The Intellectbase International Consortium Academic Conference,* Atlanta, Georgia, October 2010.
4/10 *The IEEE International Conference on Information Technology: New Generations (ITNG'10)*, Las Vegas, Nevada, April 2010.
3/10 *The Annual ACM Symposium on Applied Computing (SAC'10)*, Sierre, Switzerland, March 2009.

12/09 *The Intellectbase International Consortium Academic Conference,* Las Vegas, Nevada, December 2009.
10/09 *The Intellectbase International Consortium Academic Conference,* Atlanta, Georgia, October 2009.
4/09 *The IEEE International Conference on Information Technology: New Generations (ITNG'09)*. Las Vegas, Nevada, April 2009.
3/09 *The Annual ACM Symposium on Applied Computing (SAC'09)*, Honolulu, Hawaii, March 2009.

11/08 *The IASTED International Conference on Software Engineering Applications. (SEA'08)*, Orlando, Florida, November 2008.
6/08 *The International Conference on Software Engineering Research and Practice (SERP'08)*, Las Vegas, Nevada, June 2008.
4/08 *The IEEE International Conference on Information Technology: New Generations (ITNG'08)*. Las Vegas, Nevada, April 2008.

3/08 *The Annual ACM Symposium on Applied Computing (SAC'08)*, Fortaleza, Brazil, March 2008.

11/07 *The International Middleware Conference (Middleware'07)*, Newport, California, November 2007.
6/07 *The International Conference on Software Engineering Research and Practice (SERP'07)*, Las Vegas, Nevada, June 2007.
4/07 *The Annual ACM Symposium on Applied Computing (SAC'07)*, Seoul, Korea, April 2007.

10/06 *The International Conference on Architectural Support for Programming Languages and Operating Systems*, San Jose, California, October 2006.
9/06 *The InfoSecCD Conference (InbfoSecCD'06)*, Kennesaw, Georgia, September 2006.
7/06 *The World Multiconference on Systemics and Cybernetics and Informatics (WMSCI'06)*, Orlando, Florida, July 2006.
6/06 *The International Conference on Software Engineering Research and Practice (SERP'06)*, Las Vegas, Nevada, June 2006.
6/06 *The International Conference on Data Mining (DMIN'06)*, Las Vegas, Nevada, June 2006.
4/06 *The Annual ACM Symposium on Applied Computing (SAC'06)*, Dijon, France, April 2006.
4/06 *The International Conference on Information Technology: New Generations (ITNG'06)*, Las Vegas, NV, April 2006.
3/06 *The 2006 ACMSE Conference,* Melbourne, Florida, March 2006.

12/05 *The International Conference on Information Systems (ICIS'05)*, Las Vegas, Nevada, December 2005.
11/05 *The International Conference on Data Mining (ICDM'05)*, Houston, Texas, November 2005.
11/05 *The International Conference on Automated Software Engineering (ASE'05),* Long Beach, California, November 2005.
9/05 *The InfoSecCD Conference (InbfoSecCD'05)*, Kennesaw, Georgia, September 2005.
7/05 *The World Multiconference on Systemics and Cybernetics and Informatics (WMSCI'05),* Orlando, Florida, July 2005.
6/05 *The International Conference on Software Engineering Research and Practice (SERP'05)*, Las Vegas, Nevada, June 2005
5/05 *The IRMA International Conference*, San Diego, California 2005.
3/05 *The ACMSE Conference,* Kennesaw, Georgia, March 2005.
3/05 *The ACM Symposium on Applied Computing (SAC2005)*, Santa Fe, New Mexico, March 2005.

10/04 *The ACM International Conference on the Foundations of Software Engineering (FSE-12),* New Port, California, October 2004.
7/04 *The World Multiconference on Systemics and Cybernetics and Informatics (SCI'04),* Orlando, Florida, July 2004.
6/04 *The International Conference on Software Engineering Research and Practice (SERP'04)*, Las Vegas, Nevada, June 2004.
3/04 *The Annual ACM Symposium on Applied Computing (SAC)*, Nicosia, Cyprus, March 2004.

10/03 *The ISATED Conference on Software Engineering and Applications*, Marina Del Ray, California, October 2003.
6/03 *The International Conference on Software Engineering Research and Practice (SERP'03)*, Las Vegas, Nevada, June 2003.
3/03 *The Annual ACM Symposium on Applied Computing (SAC)*, Melbourne, Florida, March 2003.

10/02 *The American Association of University Professors (AAUP) Conference.* Kennesaw, Georgia, October 2003.
6/02 *The International Conference on Software Engineering Research and Practice (SERP)*, Las Vegas, Nevada, June 2002.
5/02 *The International Conference on Software Engineering (ICSE)*, Orlando, Florida, May 2002.
4/02 *The International Conference on Software Reuse (ICSR)*, Austin, Texas, April 2002.
3/02 *The Annual ACM Symposium on Computer Science Education (SIGCSE)*, Covington, Kentucky, March 2002.

3/01 *The Annual ACM Symposium on Applied Computing (SAC)*, Las Vegas, Nevada, March 2001.

11/00 *Internet and Multimedia Systems and Applications* (IMSA), Las Vegas, Nevada, November 2000.
10/00 *Microsoft .NET conference*, Philadelphia, Pennsylvania, October 2000.
6/00 *The Annual National Educational Computing Conference (NECC)*, Atlanta, Georgia, June 2000.
6/00 *The Grand Java Conference*, San Francisco, California, June 2000.
3/00 *The Annual ACM Symposium on Applied Computing (SAC)*, Lake Como, Italy, March 2000.
3/00 *The Annual ACM SIGCSE Symposium*, Austin, Texas, March 2000.
2/00 *The Annual West Virginia EPSCoR State Conference,* Charleston, West Virginia, February 2000.

10/99 *The West Virginia Science Teachers Association 5th Annual Conference*, Charleston, West Virginia, October 1999.
7/99 *The International Conference on Information System Analysis and Synthesis (ISAS'99)*, Orlando, Florida, July 1999.
6/99 *The Annual International Conference on Artificial Intelligence,* Las Vegas, Nevada, June 1999.
5/99 *The 21st International Conference on Software Engineering*, Los Angeles, California, May 1999.
2/99 *The Annual ACM Symposium on Applied Computing (SAC),* San Antonio, Texas, February 1999.
2/99 *The Annual West Virginia EPSCoR State Conference,* Charleston, West Virginia, February 1999.

9/98 *The Annual Midwest Small College Computing Conference,* Spring Arbor, Michigan, September 1998.
6/98 *The Annual National Educational Computing Conference (NECC),* San Diego, California, June 1998.
2/98 *The Annual ACM Symposium on Computer Science Education (SIGCSE),* Atlanta, Georgia, February 1998.
2/98 *The Annual ACM Symposium on Applied Computing (SAC),* Atlanta, Georgia, February 1998.
2/98 *The Annual West Virginia EPSCoR State Conference,* Charleston, West Virginia, February 1998.

7/97 *The Reuse Workshop*. Morgantown, West Virginia, July 1997.
6/97 *The National Educational Computing Conference*, Seattle, Washington, June 1997.
3/97 *The ACM'97Conference: The Next 50 Years of Computing*. San Jose, California, March 1997.
2/97 *The joint ACM Symposium on Applied Computing and SIGCSE Symposium*. San Jose, California, February 1997.

11/96 *The Tenth Annual Southeastern Computing Conference in Small Colleges*. Johnson City, Tennessee, November 1996.
9/96 *The Third Midwest Computing Conference in Small Colleges*. GreenCastle, Indiana, September 1996.
2/96 *The joint ACM Computing Week (the 10th SIGAPP Symposium on Applied Computing, the 24th Annual ACM Computer Science Conference, and the 27th Annual SIGCSE Technical Symposium*. Philadelphia, Pennsylvania, February 1996.
2/96 *The SIGAPP Symposium on Applied computing pre-symposium tutorials.* Philadelphia, Pennsylvania, February 1996.

6/95 *The Annual ASEET Symposiums.* Morgantown, West Virginia, June 1995.
2/95 *The SIGAPP Symposium on Applied computing pre-symposium tutorials.* The tutorial is titled "Object-Oriented Programming Using Ada 9X", presented by Brad Balfour, CACI Inc. Nashville, Tennessee, Feb 1995.
2/95 *The joint ACM Computing Week (the 9th SIGAPP Symposium on Applied Computing, the 23ed Annual ACM Computer Science Conference, and the 26th Annual SIGCSE Technical Symposium*. Nashville, Tennessee, February 1995.

3/94 *The Annual National Conference on Ada Technology*. Williamsburg, Virginia, March 1994.
3/94 *The SIGAPP Symposium on Applied Computing pre-symposium tutorials.* Tutorial title: Software Reuse Perspectives and Research Opportunities, presented by Will Tracz, IBM Federal Systems Company. Phoenix, Arizona, March 1994.
3/94 *The joint ACM Computing Week (the 8th SIGAPP Symposium on Applied Computing, the 22nd Annual ACM Computer Science Conference, and the 25th SIGCSE Technical Symposium*. Phoenix, Arizona, March 1994.

9/93 *The 12th Annual TRI-ADA Conference*. Seattle, Washington, September 1993.
4/93 *The 5th Annual West Virginia Computer Science Conference*. Marshall University, West Virginia, April 1993.
3/93 *The 11th Annual National Conference on Ada Technology*. Williamsburg, Virginia, March 1993.
2/93 *The 7th ACM SIGAPP Symposium on Applied Computing*. Indianapolis, Indiana, February 1993.

11/92 *The 11th Annual TRI-ADA Conference*. Orlando, Florida, November 1992.
3/92 *The 6th ACM SIGAPP Symposium on Applied Computing*. Kansas City, Missouri, March 1992.

7/91 *The First Golden West International Conference on Intelligent Systems*. Reno, Nevada, June 1991.
4/91 *The 4th ACM/IEEE Symposium on Applied Computing*. Fayetteville, Arkansas, April 1990.

7/90 *The International Conference on Systems Engineering*. Las Vegas, Nevada, July 1990.

4/89 *The Workshop on Applied Computing*. Stillwater, Oklahoma, April 1989.