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Education

- Ph.D., Engineering - *Columbia University*
- M.Phil., Engineering - *Columbia University*
- M.S., Engineering - *Columbia University*
- B.S., Engineering - *Cairo University*

Academic and Professional Leadership

- Chair of the MS/CIS Department (1992-1996)
- Founder and Director of the Rutgers Center for Information Management, Integration and Connectivity (CIMIC), a university research center (1996-present)
- Co-founder and Director of the Meadowlands Environmental Research Institute (MERI) (1998-2006)

Academic Experience

- 1975-present Rutgers University, Business School
(1991-present) Professor of Computer & Information Systems
(1992-1996) Chair of the MS/CIS Department
(1996-present) Director of the Center for Information Management, Integration and Connectivity (CIMIC)
(1998-2006) Director of the Meadowlands Environmental Research Institute (MERI)
- 1996-1997 Columbia University
Visiting Scholar at the Computer Science Department
- 3/84-7/84 Technical University of Eindhoven, The Netherlands
Visiting Professor at the Industrial Engineering Department

Government Experience

- 2008-present Science & Technology Directorate, US Department of Homeland Security, Washington, DC
(2008-present) Fellow/Senior Program Manager
(2010-present) Contracting Officer's Technical Representative for DHS Office of Procurement Operations
(2011-present) Branch Chief
(2011-present) National/Interagency Mathematical and Simulation Modeling Technology Advisor for the National Infrastructure Simulation and Analysis Center (NISAC)

- **Award** - “Honorable Mention for the 2010 Under-Secretary's Award for Science and Technology”, US Department of Homeland Security, Science & Technology Directorate
- Duties include
 - Mentor a group of physical/computer scientists, engineers, and program managers
 - Program Manager “Modeling, Simulation, and Analysis”
 - National/Interagency Mathematical and Simulation Modeling Technology Advisor, National Infrastructure Simulation and Analysis Center (NISAC) -- Provide computational science & technology advice to perform modeling and simulation at the national level.
 - Program Manager “Cyber-physical Systems Security” – a new initiative
 - Technical lead of the “Unified Incident Command Decision Support” (UICDS) Program
 - Member of the Healthcare and Public Health Sector R&D Joint Advisory Working Group. – Chair of the Medical Supply Chain R&D Subgroup
 - Representing the Division at the InforSec Research Council
 - Representing the Division at the Network and Information Technology R&D (NITRD), National Coordination Office
- Program Committee Assignments
 - Program Chair, “Emergency Management: Incident, Resource, and Supply Chain Management” workshop, Sponsored by Science & Technology Directorate, US DHS, November 2009
 - Program Chair, “Future Directions in Cyber-physical Systems Security” workshop, Sponsored by Science & Technology Directorate, US DHS, USAF, DOD, NIST, and DOE, July 2009
 - Program Chair, “Future Directions in Critical Infrastructure Modeling and Simulation” workshop, Sponsored by Science & Technology Directorate, US DHS, October 2008
- Publications
 - Contributor to "SUPPLEMENT TO THE PRESIDENT'S BUDGET FOR FISCAL YEAR 2012," Network and Information Technology Research and Development, February 2011, <http://www.nitrd.gov/pubs/2012supplement/FY12NITRDSupplement.pdf>
 - Contributor to "SUPPLEMENT TO THE PRESIDENT'S BUDGET FOR FISCAL YEAR 2011," Network and Information Technology Research and Development, February 2010, <http://www.nitrd.gov/pubs/2011supplement/FY11NITRDSup-FINAL-Web.pdf>
 - Nabil Adam, Christopher Doyle, Lawrence Skelly, “Emergency Management: Incident, Resource, and Supply Chain Management,” June 2010
 - Nabil Adam, “Future Directions in Cyber-physical Systems Security,” Homeland Security Science & Technology, January 2010
 - Nabil Adam, “Future Directions in Critical Infrastructure Modeling and Simulation,” Homeland Security Science & Technology, December 2008

- 1994-1998 The NASA Center of Excellence in Space Data and Information Sciences (CESDIS), NASA Goddard Space Flight Center, Greenbelt, MD. CESDIS, an institute of Universities Space Research Association, established by the National Academy of Sciences, with the goal of bringing together computer scientists from leading universities, industry, and government laboratories to conduct computer science research applicable to space and earth sciences.
 - Research Fellow
 - Took part in several initiatives including: Management of the Largest Unclassified Archive in the World; Data Warehousing/Mining of Earth Observing System Data and Information System (EOSDIS); Global Legal Information Network (GLIN); The NASA Solutions for Enterprise-Wide Procurement (SEWP); Mass Storage Management; Geodata Modeling and Query in GIS.

Industry Experience

- 2004-2005 Visiting Scholar
SAP Research Center Palo Alto, LLC, CA
Palo Alto, CA
- 1988-1994 Consultant to Operations and Engineering Department and to Corporate Education Department
International Paper, New York, NY

Editorial Appointments

- Co-founder and Executive-editor-in-chief, the International Journal of Digital Libraries, Springer Verlag, 1995-present.
- Member of the Editorial Board of the Journal of Electronic Commerce, 1996-present.
- Member of the Editorial Board of the Journal of Management Information Systems, 1982-present.
- Member of the Editorial Board of the Journal of Business Information Systems, Springer Verlag, 2000-present.
- General Co-Chair of the IEEE International Conference on Data Engineering (ICDE 2012), 2012.
- General Chair of the Homeland Security Conference, 2012 Autumn Simulation Multiconference, 2012.
- General Chair of the Military Modeling & Simulation Symposium, 2012 Spring Simulation Multiconference, 2012.
- Vice General Chair, The ACM SIGMOD/PODS 2005 Conference
- Member of the Editorial Board of the Journal of Electronic Commerce Research and Applications, Elsevier, 2002-2005.
- Member of the Science Council of the Research Institute for Advanced Computer Science, NASA Ames, 2000-2005.
- Member of the Steering Committee of the ACM, IEEE Joint Conference on Digital Libraries (JCDL), 2001-2005.

- Editor, Knowledge and Information Systems: An International Journal, Springer Verlag, 1998-2001.
- Co-founder and chair of the IEEE Computer Society Technical Committee on Digital Libraries, 1997- 2001.
- Selected as a distinguished speaker (on Digital Libraries/Electronic Commerce) in the IEEE Computer Society's Distinguished Visitors Program (DVP), 1997-2000.
- General co-chair of the 1999 IEEE International Conference on Advances in Digital Libraries (IEEE ADL'99), May 1999.
- Co-Chair, Advisory Board of the IEEE Engineering in Medicine and Biology Society, Information Technology Applications in Biomedicine (ITAB '98).
- General chair of the 1997 IEEE International Conference on Advances in Digital Libraries (IEEE ADL'97), May 1997.
- Co-Chair Working Group on Electronic Commerce/Digital Libraries, part of the Workshop on Strategic Directions in Computing Research, MIT, June 1996.
- Program chair of the 1996 Forum on Research and Technology Advances in Digital Libraries (ADL'96), May 1996.
- Program co-chair of the 1995 Forum on Research and Technology Advances in Digital Libraries (ADL'95), May 1995.
- Program-Chair of the Third International Conference on Information and Knowledge Management, November 1994.
- Program co-chair of the 1994 Workshop on Digital Libraries: Current Issues, May 1994.
- Vice-Chair of the Second International Conference on Information and Knowledge Management, 1993.
- Editor, Journal of Productivity Analysis, 1987-1992
- Conference Committee Member of the 12th Annual International Conference on Information Systems, 1991.
- Elected as Vice Chairman for the National Special Interest Group on Simulation of the ACM, 1981-1983.

National/International Talks

Invited as a keynote speaker and a lecturer at several national/international institutions/forums/conferences/workshops including:

- *dgo 2011: 12th Annual International Conference on Digital Government Research 2011(Keynote Speaker).*
- *Department of Defense M&S Steering Committee Offsite Wargame, 2011(Keynote Speaker).*
- *Industrial Control Systems Joint Working Group (ICSJWG) 2011 Spring Conference*
- *OntologySummit2011 Symposium & Workshop, National Institute of Standards and Technology (NIST), 2011*
- *National Cyber-physical Systems PI- Meeting, National Science Foundation, 2010*
- *DIMACS Workshop: Algorithmic Decision Theory for the Smart Grid, Rutgers University, 2010 (Keynote Speaker).*
- *Thirty-sixth Nuclear Information Technology Strategic Leadership (NITSL) Workshop, 2010 (Keynote Speaker).*

- *6th Annual Cyber Security and Information Intelligence Research Workshop*, Oak Ridge National Laboratory, 2010 (**Keynote Speaker**).
- *SCADA Cyber Security Workshop*, Univ. of Arizona, 2010 (**Keynote Speaker**).
- *Health and Humanitarian Logistics*, Georgia Institute of Technology, 2010 (**Keynote Speaker**).
- *ACM/IEEE International Conference on Cyber-Physical Systems, CPS Week, Stockholm, Sweden, 2010*
- *The Spring Simulation Multiconference (SpringSim'10)*, 2010 (**Keynote Speaker**).
- *The SISO Spring Simulation Interoperability Workshop*, 2010 (**Keynote Speaker**).
- *Information, Technology, and Governance: A Grand Challenges Research Agenda*, NSF, 2010
- *Taiwan National Science Council and National Tsing Hua University*, Taiwan, 2009 (**Keynote Speaker**).
- *5th Annual Cyber Security and Information Intelligence Research Workshop*, Oak Ridge National Laboratory, 2009 (**Keynote Speaker**).
- *The 5th International Conference on Collaborative Computing: Networking, Applications and Worksharing*, 2009 (**Keynote Speaker**).
- *Public Security Conference*, The Hague, The Netherlands, 2009 (**Keynote Speaker**).
- *Research & Industrial Collaboration Conference*, Northeastern University, 2009 (**Keynote Speaker**).
- *The Public Security Innovation Center Seminar*, The Embassy of The Kingdom of The Netherlands, US, 2009 (**Keynote Speaker**).
- *National Security Agency Research Transformation Office*, 2009
- *Information Assurance Research and Education Workshop*, Arizona State University, 2009 (**Keynote Speaker**).
- *NSF Workshop on Data Security* National Science Foundation, 2009 (**Keynote Speaker**).
- *Power Grid Simulator Workshop*, Argonne National Laboratory, 2008 (**Keynote Speaker**).
- *Secure Knowledge Management (SKM2008) Workshop*, University of Texas at Dallas, 2008 (**Keynote Speaker**).
- *Systems Development Laboratory, Hitachi, Ltd.*, Japan, 2007
- *The ACS/IEEE International Conference on Computer Systems and Applications, AICCSA 2007*, Jordan, 2007 (**Keynote Speaker**).
- *The first US-China International Workshop on Digital Government Research and Practice (IntDG 2006)*, Beijing, China. Sponsored by U.S. National Science Foundation, the Chinese Academy of Sciences, and the National Natural Science Foundation of China, 2006
- *The Seventh World Congress on the Management of e-Business*, Halifax, Canada, 2006 (**Keynote Speaker**).
- *ETRIC, International Conference on Emerging Trends in Information and Communication Security*, Germany 2006 (**Keynote Speaker**).
- *Digital Library Colloquium Speaker Series*, Carnegie Mellon School of Computer Science AND Lab of Education and Research on Security Assured Information Systems, University of Pittsburgh, 2005.

- *IEEE Workshop Working Together: R&D Partnership in Homeland Security, the National Conference on Digital Government Research, 2005.*
- *Hungarian US R&D Workshop - Information Society Technology and Research Challenges*, Sponsored by NSF and ELTE Ithaka, Budapest, Hosted by Hungarian Ministry for Information & Telecommunications and Ministry of Education, Hungary, 2004.
- *The National Conference for Digital Government Research*, May 2002 (**Featured Speaker**), May 2002.
- *National Research Council's Workshop on Coping with Increasing Demands on Government Data Centers*, April 2002.
- *The IEEE/ARL/NASA Workshop on Information Assurance*, December 2001
- *The International Symposium on Government and E-commerce Development*, Ningbo, China, April 2001 (Keynote speaker). Co-sponsored by the United Nations Department of Economic and Social Affairs, the Ningbo Municipality, the Chinese Academy of Science, the Chinese Academy of Engineering, the Ministry of Information Industry of China, and Zhejiang University of China.
- *The Second European Conference on Research and Advanced Technology for Digital Libraries*, Crete, Greece, September 1998.
- *IEEE Engineering in Medicine and Biology Society, Information Technology Applications in Biomedicine (ITAB '98)*, Washington, D.C., May 1998 (**Keynote Speaker**).
- *Lawrence Livermore National Laboratory, Livermore, California*, April 1998.
- *EUROSTAT (The Statistical Office of the European Union), "Statistical Data Protection"*, Lisbon, Portugal, March 1998 (**Keynote Speaker**).
- *The 97 Korean Management Information Systems International Conference*, Seoul, Korea, December 1997(**Keynote Speaker**).
- C&C Research Laboratories, NEC USA, Inc., San Jose, California, November 1997.
- Baruch College, City University of New York, November 1997.
- Department of Computer Science, SUNY at Buffalo, April 1997.
- *The International Conference on the Digital Libraries and Information Services for the 21st Century (KOLISS DL'96)*, Seoul, Korea, September 1996 (**Keynote Speaker**). .
- Matsushita Information Technology Laboratory, Panasonic Technologies, Inc., Princeton, NJ. September 1996.
- *The Development and Practice of Law in the Age of the Internet*, Washington College of Law Centennial Week Symposium, Washington, D.C., April 1996.
- The Bilkent University-sponsored *Symposium on Environment, Space, and Communications*, Bilkent, Ankara, Turkey, February 1996 (**Keynote Speaker**).
- The Computer Science and Industrial Engineering Departments, Ben-Gurion University in Beer-Sheva, Israel, February 1996.
- *2nd International Workshop on Next Generation Info. Technologies & Systems*, The Technion and Neaman Institute, Israel, June 1995.
- American Association for Clinical Chemistry, April 1995.
- Center for Excellence in Space Data and Information Sciences, NASA, February 1994
- University of Waterloo, December 1993.
- U.S. National Institute of Standards and Technology, December 1993.

- *International Conference on Information and Knowledge Management*, November 1993.
- Baruch College, City University of New-York, March 1993.
- New Jersey Institute of Technology, May 1992.

Awards

- Out-of-cycle: 1987, 1995 Merit: 1981, 1989, 1990, 1991, 1994, 1996, 1998, 2002-2005, 2006-2007, 2009-2010.
- Horace DePodwin Research Award: 1992

Recent Initiatives

- Co-founder of the Regional Drinking Water Safety and Security Consortium (RDWSSC). The following are among the Consortium members: Rutgers CIMIC, USEPA, USGS, and NJDEP.
- Co-founder and Director of the Meadowlands Environmental Research Institute (MERI), Rutgers University and the New Jersey Meadowlands Commission.
- Co-founder and Executive editor-in-chief of the International Journal of Digital Libraries
- Founder and director of the Rutgers Graduate Certificate Program in Electronic Commerce.
- Co-founder and past-chair of the IEEE Computer Society Task Force on Digital Libraries
- Co-founder and program co-chair of the Forum on Research and Technology Advances in Digital Libraries (ADL).
- Founder and Director of the Center for Information Management, Integration and Connectivity (CIMIC), Rutgers University.
- Helped establish a Science Summer Camp to provide training to teachers and education for inner-city youths (elementary through high school levels) as part of the Rutgers CIMIC and MERI's service to the local community, 1996-2009.

Fellowships and Competitive Grants

- Principal Investigator, "Secure Interoperability for Effective Data Mining in Border Control and Homeland Security Applications," National Science Foundation, **\$50,000**, 2008-2009
- Principal Investigator, "Service-oriented architectures supporting Networks Of Public Security – SoCNOS," SAP Research Labs, **\$566,000**, 2007–2009
- Principal Investigator, "information Technology for Emergency mAnageMent (iTEAM)," Academic Excellence Fund, Rutgers University, **\$40,000**, 2008
- Principal Investigator, "Improving Business Knowledge Management and Analysis Through the use of the RFID Technology and Semantic Web Services," SAP Research Labs, **\$420,000**, 2004–2007
- Principal Investigator, "The Meadowlands Environmental Research Institute", The New Jersey Meadowlands Commission (NJMC) (**\$350,000**), 2005-2006.
- Co-Principal Investigator, "A Decision Support System to Assess Urban Women's HIV Sexual Risk", National Library of Medicine, (**\$398,000**), 2005-2007, (PI: Rachel Jones).
- Principal Investigator, "A Study for Improving Business Intelligence Through the Use of Text Mining and Ontology", Relevant Noise, Inc. (**\$34,892**), 2005-2006.

- Principal Investigator, “Technology Transfer of Inter-agency e-Government Services and Their Transnational Feasibility Studies,” National Science Foundation, **\$99,898**, 2004–2005
- Principal Investigator, “Municipal Technology Initiative,” New Jersey Meadowlands Commission, **\$150,000**, 2004–2005
- Principal Investigator, “Secure Agency Interoperation for Effective Data Mining in Border Control and Homeland Security Applications,” National Science Foundation, **\$1,050,000**, 2003–2007.
- Co-Principal Investigator, “Spatially Integrated Coastal Permitting System,” National Oceanic and Atmospheric Administration (NOAA), **\$87,750**, 2002 – 2003 (PI: R. Ceberio).
- Principal Investigator, “Workshop on Advanced Technologies in Real-Time Monitoring and Modeling for Drinking Water Safety and security”, The US Environmental Protection Agency (USEPA) (**\$75,000**), 2002-2003.
- Principal Investigator, “The Meadowlands Environmental Research Institute”, The New Jersey Meadowlands Commission (NJMC), **\$5,500,000**, 2002-2005.
- Principal Investigator, "E-Government: Human-Centered Systems for Business Services," National Science Foundation, **\$915,271**, 2000-2004.
- Principal Investigator, "Meadowlands Environmental Research Institute," Hackensack Meadowlands Development Commission, **\$3,000,000**, 1998-2002.
- Principal Investigator, "NASA Regional Validation Center," Hackensack Meadowlands Development Commission, **\$600,000**, 1997-2001.
- Co-Principal Investigator, “Exploratory Research on Reconfigurable and Scalable Enterprise Planning Systems,” National Science Foundation, **\$111,977**, July 2000 - June 2001 (PI: M. Jafari).
- Co-Principal Investigator, "Trader In Distributed Computing Environment," Sponsored by National Security Agency, **\$50,000**, 1998 (PI: Y. Yesha).
- Principal Investigator, "Comparative study of Commercial- Off- The - Shelf client query tools to support the CCS Data Warehouse," Sponsored by the The NASA Center of Excellence in Space Data and Information Sciences, **\$33,249**, 1998-1999.
- Principal Investigator, "Beyond Traditional Data Warehousing for EOSDIS," Sponsored by the The NASA Center of Excellence in Space Data and Information Sciences, **\$16,625**, 1998.
- Co-Principal Investigator, "Quality Data Management System," Sponsored by the Defense Logistics Agency/DoD, **\$347,450**, 1996-1998 (PI: T. Bochure).
- Principal Investigator, "Information Extraction Applications for GLIN," Sponsored by Center of Excellence in Space Data and Information Sciences, **\$30,027**, 1996-1997.
- Co-Principal Investigator, "Vendor Evaluation System," Sponsored by the Defense Logistics Agency/DoD, **\$130,000**, 1995-1996 (PI: T. Bochure).
- Principal Investigator, "Geodata Modeling and Query in Geographic Information Systems," Sponsored by The NASA Center of Excellence in Space Data and Information Sciences, **\$55,582**, 1995-1996.
- Principal Investigator, "Evaluation of Database Technologies for Information Networking Applications," Sponsored by Bellcore, **\$50,000**, 1995.

- Principal Investigator, "EDI/CIM Model and Demonstration," Sponsored by the Defense Logistics Agency, **\$283,340**, 1994-1995.
- Principal Investigator, "Computer Proficiency Assessment for Effective MIS Undergraduate Education," Sponsored by the Rutgers Dialogues Grants, **\$6,100**, 1994-1995.
- Co-Principal Investigator, "Implementation of Integrated Manufacturing - Phase II of the CRAMTD (Combat Rations Advanced Manufacturing Technology Demonstration) program," Sponsored by the Defense Logistics Agency, **\$800,000**, 1992-1995 (PI:T. Bochure).
- Co-Principal Investigator, "The CIM-System Informational Architecture and Database Design," Sponsored by the Defense Logistics Agency, **\$459,000**, 1990-1992.
- The GSM Research Resources Committee: received fellowship in Fall 1982, Spring 1986. Also received several grants during the period 1981-1992 (PI:T. Bochure).
- The Rutgers University Research Council: received a research grant for the period June 1987-May 1988.
- Rutgers Local Allocation Committee for Supercomputer Time: received a computer time grant during 1986 through 1991.
- The Beverly Johnson Research Funds: received a research grant **\$10,000** for the period 1988/89 (with J. Surkis).

Patents

- N. Adam, A. Paliwal, C. Bornhoevd, B. Shafiq, "Discovery of services Matching service Request", (12/14/2007). Issued, European Patent Office, Patent# 07018579.8 - 1225
- File #: 2006E00643, "Title: Web Service Discovery: Using Ontologies and Latent Semantic Indexing"
- File # : 0010-071001, "Title: Service-Based Processes Using Policy-Based Model-To-Model Conversion and Validation Techniques"

Publications

1. Edited Special Issues of Refereed Journals/Proceedings

- N. Adam, Y. Yesha (Editors), Special Section on *Digital Libraries, IEEE Transactions on Knowledge and Data Engineering*, August 1996.
- N. Adam, M. Halem, and Y. Yesha (Editors), *Proceedings of the 1996 Forum on Research and Technology Advances in Digital Libraries (ADL'96)*, Computer Society Press, May 1996.
- N. Adam, B. Bhargava, and Y. Yesha (Editors), *Proceedings of the Third International Conference on Information and Knowledge Management*, ACM Press, November 1994.
- N. Adam (Editor), a special issue on *Database Management Systems, of Journal of Management Information Systems*, Sept. 1987.
- Co-editor of a special issue on *Simulation, of Operations Research*, Nov.-Dec., 1983.
- N. Adam (Editor), a special issue on *Simulation, of Communications of the ACM*, Apr. 1981.

2. Books

- N. R. Adam, O. Dogramaci, A. Gangopadhyay and Y. Yesha, *Electronic Commerce: Technical, Business, and Legal Issues*, Prentice-Hall, July 1998.
- N. R. Adam and A. Gangopadhyay, *Database Issues in Geographic Information Systems*, Kluwer Academic Publishers, June 1997
- N. R. Adam, B. Bhargava, M. Halem, and Y. Yesha (Editors), *Digital Libraries Research and Technology Advances Lecture Notes in Computer Science*, Springer-Verlag, October 1996.
- N. Adam and Y. Yesha (Editors), *Electronic Commerce: Current Research Issues and Applications, Lecture Notes in Computer Science*, Springer-Verlag, January 1996.
- N. Adam, B. Bhargava, and Y. Yesha (Editors), *Digital Libraries: Current Issues, Lecture Notes in Computer Science*, Springer-Verlag, May 1995.
- N. Adam and B. Bhargava (Editors), *Advanced Database Systems, Lecture Notes in Computer Science*, Springer-Verlag, December 1993.
- A. Dogramaci and N. Adam (Editors), *Managerial Issues in Productivity Analysis*, Kluwer Academic Publishers, June 1985
- N. Adam and A. Dogramaci (Editors), *Productivity Analysis at the Organizational Level*, Martinus Nijhoff Publishing, 1981.
- A. Dogramaci and N. Adam (Editors), *Aggregate and Industry Level Productivity Analysis*, Martinus Nijhoff Publishing, 1981.
- N. Adam and A. Dogramaci (Editors), *Current Issues in Computer Simulation*, Academic Press, Inc., 1979

3. Refereed Papers

- Xiaoyun He, Haibing Lu, Jaideep Vaidya, and Nabil Adam, "Secure Construction and Publication of Contingency Tables from Distributed Data," *Journal of Computer Security*, 2011
- Aabhas Paliwal, Basit Shafiq, Jaideep Vaidya, Hui Xiong, Nabil Adam, "Semantics Based Automated Service Discovery," *IEEE Transactions on Services Computing*, 2010
- X. He, J. Vaidya, B. Shafiq, N. Adam, and T. White, "Privacy Preserving Integration of Health Care Data," *International Journal of Computational Models and Algorithms in Medicine*, 2010
- X. He, J. Vaidya, B. Shafiq, N. Adam, and X. Lin, "Reachability Analysis in Privacy-Preserving Perturbed Graphs," *Proceedings of the IEEE/WIC/ACM International Conference on Web Intelligence*, 2010
- J. Vaidya, V. Atluri, B. Shafiq, and N. Adam, "Privacy-preserving Trust Verification," *ACM Symposium on Access Control Models and Technologies*, 2010
- Vandana Janeja, Nabil R. Adam, Vijayalakshmi Atluri and Jaideep Vaidya, "Spatial neighborhood based anomaly detection in sensor datasets," *Data Mining and Knowledge Discovery*, special issue on Outlier Detection, Springer, 2010
- Yuan Hong, Xiaoyun He, Jaideep Vaidya, Nabil Adam, and Vijayalakshmi Atluri, "Effective Anonymization of Query Logs," *Proceedings of the 18th ACM Conference on Information and Knowledge Management (CIKM '09)*, 2009.
- Xiaoyun He, Jaideep Vaidya, Basit Shafiq, Nabil Adam, and Vijayalakshmi Atluri, "Preserving Privacy in Social Networks: A Structure-Aware Approach," *Proceedings of the 2009 IEEE/WIC/ACM International Conference on Web Intelligence (WI-09)*, 2009

- Xiaoyun He, Jaideep Vaidya, Basit Shafiq, Nabil Adam, Evimaria Terzi, and Tyrone Grandison, "Efficient Privacy-Preserving Link Discovery," *Proceedings of the 13th Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD-09)*, 2009
- Basit Shafiq, Nabil Adam, Vijay Atluri, Jaideep Vaidya, and Soon Ae Chun, "Ontology Driven Resource Management for Emergency Response," *Proceedings of the 2008 Workshop on Secure Knowledge Management*, 2008
- Haibing Lu, Xiaoyun He, Jaideep Vaidya, and Nabil Adam, "Secure Construction of Contingency Tables from Distributed Data," *Proceedings of the 22nd Annual IFIP WG 11.3 Working Conference on Data and Applications Security (DBSEC '08)*, 2008.
- Jaideep Vaidya, Vijayalakshmi Atluri, Qi Guo, and Nabil Adam, "Migrating to Optimal RBAC with Minimal Perturbation," *Proceedings of the 13th ACM Symposium on Access Control Models and Technologies (SACMAT)*, 2008
- Nabil Adam, Vijayalakshmi Atluri, Soon Ae Chun, John Ellenberger, Basit Shafiq, Jaideep Vaidya, and Hui Xiong, "Secure Information Sharing and Analysis for Effective Emergency Management," *Proceedings of the 9th Annual International Conference on Digital Government Research*, 2008
- Xiaoyun He, Basit Shafiq, Jaideep Vaidya, and Nabil Adam, "Privacy-preserving Link Discovery," *Proceedings of the 23rd Annual ACM Symposium on Applied Computing, Data Mining Track*, 2008
- Nabil Adam, Tom White, Basit Shafiq, Jaideep Vaidya, Xiaoyun He, "Privacy Preserving Integration of Health Care Data," *Proceedings of the Annual Symposium of the American Medical Informatics Association (AMIA)*, 2007
- A. V. Paliwal, N. Adam and C. Bornhoevd, "Adding Semantics through Service Request Expansion and Latent Semantic Indexing," *IEEE International Conference on Services Computing (SCC 2007)*, 2007
- N. Adam, V. P. Janeja, A. V. Paliwal, B. Shafiq, C. Ulmer, V. Gersabeck, A. Hardy, C. Bornhoevd and J. Schaper, "Approach for discovering and handling crisis in a service-oriented environment", *IEEE International Conference on Intelligence and Security Informatics 2007*
- Dihua Guo, Hui Xiong, Vijay Atluri, Nabil Adam, "Semantic Feature Selection for Object Discovery in High-Resolution Remote Sensing Imagery," *Proceedings of the Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD)*, 2007
- Paliwal A.V., Adam, N., and Bornhoevd, C., "Web Service Orchestration and Verification using MSC and CP Nets," *Proceedings of the Special Track on Web Technologies (WT), ACM SAC 2007*
- A. V. Paliwal, N. Adam, B. Shafiq, C. Bornhövd, "Policy based Web Service Orchestration and Goal Reachability Analysis using MSC and CP Nets," *Proceedings of the IEEE Joint Conference on E-Commerce Technology and Enterprise Computing, E-Commerce and E-Services, CEC/EEE 2007*
- N. Adam, V. P. Janeja, A. Paliwal, V. Atluri, S. Chun, J. Cooper, J. Paczkowski, C. Bornhoevd, J. Schaper, "Semantics-based Threat Structure Mining for Homeland Security," in *Digital Government: Advanced Research and Case Studies*, edited by H. Chen et al., Springer Verlag, 2007
- N. Adam, A. Kozanoglu, A. Paliwal, M. Youssef, "Mutual Trust in Open Environment for Cascaded Web Services," *ACM Workshop on Secure Web Services, in conjunction*

with the 13th ACM Conference on Computer and Communications Security (CCS-13), Fairfax, VA, 2006

- N. Adam, A. Kozanoglu, A. Paliwal, B. Shafiq, "Secure Information Sharing in a Virtual Multi-Agency Team Environment," *International Workshop on Security and Trust Management, in conjunction with the 11th European Symposium On Research In Computer Security (ESORICS 2006)*, Hamburg, Germany, 2006
- N. Adam, A. Paliwal, V. Atluri, S. Chun, J. Cooper, J. Paczkowski, C. Bornhoevd, I. Nassi, J. Ellenberger, J. Schaper, "Government Agency Interoperation in Security Applications," in *Handbook in Information Systems, National Security*, edited by H. Chen et al., Elsevier, 2006
- A. Paliwal, N. Adam, H. Xiong, "Web Service Discovery via Semantic Association Ranking and Hyperclique Pattern Discovery," *Proceedings of the 2006 IEEE / WIC / ACM International Conference on Web Intelligence*, Hong Kong, 2006
- N. Adam, V. Atluri, V. P. Janeja, A. Paliwal, M. Youssef, S. Chun, J. Cooper, J. Paczkowski, C. Bornhoevd, I. Nassi, J. Schaper, "Semantics-based Threat Structure Mining" (short paper), *The Seventh Annual International Conference on Digital Government Research (dg.o 2006)*, San Diego, CA, 2006
- N.R. Adam, V. Atluri, R. Koslowski, R. Grossman, V.P. Janeja, J. Warner "Secure Interoperation for Effective Data Mining in Border Control and Homeland Security Applications" (NSF highlights), *The Seventh Annual International Conference on Digital Government Research (dg.o 2006)*, San Diego, CA, 2006
- S. Yu, V. Atluri and N. Adam, "Cascaded Star: an Efficient Data Model for Hyper-dimensional Data Warehouses", *Proceedings of 17th International Conference on Database and Expert System Applications (DEXA'06)*, Poland, 2006
- M. Youssef, N. Adam, and V. Atulri, "Semantically Enhanced Enforcement of Mobile Consumer's Privacy Preferences", *Proceedings of The ACM Symposium on Applied Computing*, Dijon, France, 2006.
- Soon Ae Chun, Vijayalakshmi Atluri and Nabil R. Adam, "Using Semantics for Policy-based Web Services Composition", Special Issue on Semantic Web, *Distributed and Parallel Databases, International Journal*, 2005.
- A. V. Paliwal and N. Adam, "Developing Semantic Web Services for Water Monitoring A Case Study," *Proceedings of International Workshop on Dynamic Web Processes (DWP 2005)*, in conjunction with the *International Conference on Service Oriented Computing (ISCOC 2005)*, December, 2005, Amsterdam, The Netherlands.
- S. Yu, V. Atluri and N. R. Adam, "Selective View Materialization in a Spatial Data Warehouse," *7th International Conference on Data Warehousing and Knowledge Discovery, (DaWaK 2005)*, August 2005.
- D. Guo, V. Atluri and N. Adam, "Texture-based Remote-sensing Image Segmentation," *IEEE International Conference on Multimedia & Expo*, July, 2005.
- M. Youssef, V. Atulri, and N. Adam, "Preserving Mobile Customer Privacy: An Access Control System for Moving Objects and Customer Information", *Proceedings of the 6th International Conference on Mobile Data Management (MDM'05)*, Ayia Napa, Cyprus, May 2005.
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- A. Gomaa, N. Adam and V. Atluri., "Adapting Spatial Constraints of Composite Multimedia Objects to achieve Universal Access," *IEEE International Workshop on Multimedia Systems and Networking (WMSN05)*, in conjunction with the 24th IEEE International Performance, Computing, and Communications Conference (IPCCC), 2005.
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- N.R. Adam, V.P. Janeja and V. Atluri, "Neighborhood based detection of anomalies in high dimensional spatio-temporal Sensor Datasets", *Proceedings of The 19th ACM Symposium on Applied Computing, Technical track on Data Mining*, March 2004
- Soon Ae Chun, Vijay Atluri and Nabil R. Adam, "Policy-based Web Service Composition," *Proceedings of the 14th International Workshop on Research Issues on Data Engineering (RIDE 2004): Web Services for E-Commerce and E-Government Applications (RIDE-WS-ECEG'2004)*, March 2004
- V. Janeja, V. Atluri and N. Adam, "Detecting Anomalous Geospatial Trajectories through Spatial Characterization and Spatio-Semantic Associations," *NSF Conference on Digital-Government*, May, 2004
- N. Adam, V. Atluri, D. Guo and S. Yu, "Challenges in Environmental Data Warehousing and Mining," in *Data Mining: Next Generation Challenges and Future Directions*, edited by H. Kargupta, A. Joshi, K. Sivakumar, and Y. Yesha, AAAI (American Association for Artificial Intelligence), 2004
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- V. Atluri, N.R. Adam and M. Youssef, "Towards a Unified Index Scheme for Mobile Data and Customer Profiles in a Location-Based Service Environment," *Workshop on Next Generation Geospatial Information (NG2I'03)*, Cambridge, Massachusetts, USA October, 2003
- N. Adam, F. Artigas, V. Atluri, I. Bora, R. Ceberio, S. Chun and A. Paliwal, "Spatially Integrated Coastal Permitting System (SICOP)," *Costal Zone 03 conference*, July, 2003.
- A. Paliwal, N. Adam, V. Atluri and Y. Yesha, "Electronic Negotiation of Government Contracts through Transducers," *NSF Conference on Digital-Government*, May 2003
- E. Ferrari, N.R. Adam, V. Atluri, E. Bertino and, U. Capuzzo, "An Authorization Model for Digital Libraries", *The VLDB Journal*, Vol. 11, issue 1, 2002

- R. Holowczak, N. Adam, A. Artigas, and I. Bora, "Data Warehousing for Environmental Digital Libraries," *Communications of the ACM*, June 2002
- N. Adam, V. Atluri, Y. Yesha and S. Yu, "Efficient Storage and Management of Environmental Information", *Proceedings of the Tenth NASA Goddard Space Flight Center Conference on Mass Storage Systems and Technologies in cooperation with the Nineteenth IEEE Symposium on Mass Storage Systems*, April 2002.
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- S. Chun, V. Atluri and N. R. Adam, "Dynamic Composition of Workflows for Customized Service Delivery," *Proceedings of The NSF Conference on Digital-Government*, May 2002.
- N. Adam, F. Artigas, V. Atluri, S. Chun and P. Mazzoleni, "Customized Visualization of GeoSpatial Government Regulations," *Proceedings of The NSF Conference on Digital-Government*, May 2002.
- V. Janeja, V. Atluri and N. R. Adam, "OUTLAW: Using Geo-Spatial Associations for Outlier Detection and Visual Analysis of Cargo Routes," *Proceedings of The NSF Conference on Digital-Government*, May 2002.
- V. Atluri, S. Chun, R. Holowczak, and N. R. Adam, "Automating the Delivery of Governmental Business Services Through Workflow Technology," in *Advances in Digital Government: Technology, Human Factors, and Policy*, (eds.) William J. McIver and Ahmed K. Elmagarmid, Kluwer Academic Publishers, 2002, pages 69-84
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- Chiara Ghirardini, Soon Chun, Vijay Atluri, Ibrahim Kamel and Nabil Adam "A Study on the Indexing of Satellite Images at NASA Regional Application Center," a special track on "Image-Based Geospatial Databases" at *QPMIDS'200, September 2001*.
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- N. Adam and Y. Yesha, "Electronic Commerce: Tutorial", *Proceedings of the ACM SIGMOD'98 Conference, June 1998*.
- N. Adam, V. Atluri, and W. Huang, "Modeling and Analysis of Workflows Using Petri Nets", *Journal of Intelligent Information Systems*, Vol. 10, No. 2, 1998.
- N. Adam and R. Holowczak, "Concept Based Query of Digital Library Objects", *Proceedings of the IEEE Information Technology Applications in Biomedicine Conference, May 1998*

- N. Adam, I. Adiwijaya, V. Atluri and Y. Yesha, "EDI As A Distributed Information System", *Proceedings of the Hawaii International Conference on System Sciences*, January 1998.
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- N. Adam, M. Halem, R. Holowczak, N. Lal, Y. Yesha, "Digital Libraries Task Force", *IEEE Computer*, August 1996.
- N. Adam, V. Atluri, and W. Li, "Toward High Performance Clinical Information Systems", *Proceedings of the 2nd Americas Conference on Information Systems*, August 1996.
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- N. Adam and A. Gangopadhyay, "An N-aryl View Integration Method Using Conceptual Dependencies," *Proceedings of the Hawaii International Conference on System Sciences*, January 1995.
- N. Adam, A. Gangopadhyay and J. Clifford, "A Form-Based Approach to Natural Language Query Processing" *Journal of Management Information Systems*, December 1994.
- N. Adam, "A New Dynamic Voting Algorithm in Distributed Database Systems", *IEEE Transactions on Knowledge and Data Engineering*, April 1994.
- R. Subramanian and N. Adam, "Applying OOAD in the Design and Implementation of Intelligent Geographic Information Systems", *Advanced Database Systems*, N. Adam and B. Bhargava (Eds.), *Lecture Notes in Computer Science*, Springer-Verlag, December 1993.

- R. Subramanian and N. Adam, "The Design and Implementation of an Expert Object-Oriented Spatial Database Model", *Proceedings of the Second International Conference on Information and Knowledge Management, November 1993*.
- N. Adam, J.W. Bertrand, D. Morehead, and J. Surkis, "Due Date Assignment Procedures With Dynamically Updated Coefficients", *European Journal of Operational Research, July 1993*.
- N. Adam and R. Tewari, "Regeneration with Virtual Copies for Distributed Computing Systems", *IEEE Transactions on Software Engineering, July 1993*.
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- N. Adam and A. Gangopadhyay, "Integrating Functional and Data Modeling in a Computer Integrated Manufacturing System", *Proceedings of the Ninth IEEE International Conference on Data Engineering, April 1993*.
- N. Adam, A. Gangopadhyay, and J. Geller, "Design and Implementation of a Knowledge Base Query Processor", *International Journal of Intelligent and Cooperative Information Systems, Vol. 2, No. 2, 1993*.
- R. Tewari and N. Adam, "Using Semantic Knowledge of Transactions to Improve Recovery and Availability of Replicated Data", *Information Systems, January 1993*.
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- N. Adam, T. Boucher, and A. Gangopadhyay, "A Method for Natural Language Query Processing in a Computer Integrated Manufacturing System", *Proceedings of the 20th Annual North American Conference of the IBSCUG, July 1992*. Received the best research paper award.
- R. Tewari and N. Adam, "Distributed File Allocation with Consistency Constraints", *Proceedings of the International Conference on Distributed Computing Systems, June 1992*.
- N. Adam and R. Subramanian, "An Object-Oriented Model for Intelligent Query Processing in Geographic Databases", *Proceedings of the Third Australian Database Conference, February 1992*.
- N. Adam and R. Tewari, "Regeneration with Virtual Copies for Replicated Databases", *Proceedings of the International Conference on Distributed Computing Systems, May 1991*.
- N. Adam and J. Wortmann, "Security Control Methods for Statistical Databases: A Comparative Study", *ACM Computing Surveys, December 1989*.
- N. Adam and D.H. Jones, "Statistical Databases: Output Perturbation Using Jackknifing and Other Re-Sampling Schemes", *Journal of Management Information Systems, September 1989*.
- N. Adam and S. Klein, "On Coverage Probability, Independence and Normality in Batch Means Algorithms", *European Journal of Operational Research, September 1989*.
- D.H. Jones and N. Adam, "Disclosure Avoidance Using the Bootstrap and Other Re-Sampling Schemes", *Proceedings of the Fifth Annual Research Conference, Us Dept of Commerce, Bureau of Census, March 1989*.

- N. Adam, J.W. Bertrand, and J. Surkis, "Priority Assignment Procedures in Multi-Level Assembly Job Shops", *IIE Transactions*, September 1987.
- N. Adam, "Achieving A Confidence Interval For Parameters Estimated by Simulation", *Management Science*, July 1983.
- A. Dogramaci and J. Panayiotopoulos, and N. Adam, "The Dynamic Lot Sizing Problem for Multiple Items Under Limited Capacity", *AIIE Transactions*, December 1981.
- N. Adam and E. Ignall, "Production and Inventory Policies for an Integrated Manufacturing Firm", *International Journal of Production Research*, December 1980.
- N. Adam and J. Surkis, "Priority Update Interval and Anomalies in Dynamic Ratio Type Job Shop Scheduling Rules", *Management Science*, December 1980.
- N. Adam and J. Surkis, "Priority Updating Procedures in Dynamic Job Simulation Studies: The Impact on Measures of Performance under Different Due Date Assignment Rules", *Disaggregation Problems in Manufacturing and Service Organizations*, Ritzman et al. (Eds.), Martinus Nijhoff, The Netherlands, 1979.
- N. Adam and A. Dogramaci, "Issues in Simulation Languages: A Brief Overview", *Current Issues in Computer Simulation*, Academic Press, Inc., 1979.
- A. Dogramaci and N. Adam, "Applications of Simulation", *Current Issues in Computer Simulation*, Academic Press, Inc., 1979.
- N. Adam, R. Oppenheim and J. Surkis, "Time Series Analysis in Determining Due Date in Job Shop Studies", *Proceedings of the Tenth Annual Conference of the American Institute of Decision Sciences*, October 1978.
- N. Adam and J. Surkis, "Implementation of Endogenous Due-Date Assignment Methods in Dynamic Job Shop Environments", *Proceedings of the Ninth Annual Conference of the American Conference of the American Institute of Decision Sciences*, October 1977.
- N. Adam and J. Surkis, "A Comparison of Capacity Planning Techniques in a Job-Shop Control System", *Management Science*, May 1977.
- N. Adam and J. Surkis, "Interaction of Job Shop Due Date Determination and Priority Dispatching Rules in Continuous Job Shops", *Proceedings of the Eighth Annual Conference of the American Institute of Decision Sciences*, November 1976.

Ph.D. Dissertations

Dissertation Advisor/Co-Advisor

- Dr. Xiaoyun He
(With Professors Jaideep Vaidya and Professor Basit Shafiq)
Rutgers University
Topic: Privacy Preserving Analysis of Graph Structured Data, 2011
- Dr. Aabhas V. Paliwal
Mindlance, Life Sciences
Topic: Semantic based Discovery of Web Services and Orchestration of Web Service Process, 2007
- Dr. Vandana Janeja
(With Professor Vijay Atluri)
University of Maryland Baltimore County (UMBC)
Topic: Inter-domain Incremental Detection of Anomalies in High-dimensional and Diverse Datasets, 2007

- Dr. Dihua Guo
(With Professor Vijay Atluri)
At&t, Research Laboratory, New Jersey
Topic: Semantic-based High Resolution Remote Sensing Image Retrieval, 2006
- Dr. Songmei Yu
(With Professor Vijay Atluri)
Relevant Noise, Inc., New Jersey
Topic: Construct Efficient Data Management in a Spatial Data Warehouse, 2006
- Dr. Ahmed Gomaa,
President, iMedia Streams, LLC
Topic: Self-Manifestation of composite multimedia objects to achieve Universal access, 2006
- Dr. Mahmoud Youssef Mohamed
(With Professor Vijay Atluri)
Arab Academy for Science and Technology, Egypt
Topic: Semantically Enhanced and Efficient Location Services for Preserving Mobile Consumer's Privacy, 2004.
- Dr. Soon Ae Chun
(With Professor Vijay Atluri)
City University of New York
Topic: Decentralized Management of Dynamic and Customized Workflows, 2003.
- Dr. June-Suh Cho
Hankuk University of Foreign Studies, Korea
(With Professor Vijay Atluri)
Topic: Recognition of Partially Occluded Objects in Content-based Image Retrieval, 2002.
- Dr. Igg Adiwijaya
(With Professor Vijay Atluri)
EMC, Corporation
Topic: Detecting and managing changes to data and schema in scientific documents, 2000.
- Dr. Wei-Kuang Huang
(With Professor Vijay Atluri)
University of Connecticut
Topic: Incorporating Security into Workflow Management Systems, 1998.
- Dr. Richard Holowczak
Baruch College, City University of New York
Topic: Extractors for Digital Libraries, 1997.
- Dr. Aryya Gangopadhyay
University of Maryland Baltimore County
Topic: Using Conceptual Dependencies for Database Design and Query Processing, 1993.
- Dr. Ramesh Subramanian
University of Alaska
Topic: Object-Oriented Modeling and Intelligent Query Processing in Spatial Databases, 1992.

- Dr. Rajiv Tewari
Temple University.
Topic: Robustness in Replicated Databases, 1990.
- Dr. Diane Morehead
(With Professor Julius Surkis)
AT&T Bell Laboratories
Topic: Priority Rules, Due-Date Assignment Procedures, and Shop Loading Problems in Job Shops Processing Multi-Level Assemblies, 1989.

Committee Member

- Dr. Haibing Lu, Rutgers University
Topic: Boolean Matrix Decomposition with Extensions: Application to Role Mining, June 2011
- Dr. Wenjun Zhou, Rutgers University,
Topic: Correlation Analysis: from Computational Hardness to Practical Success, April 2011.
- Dr. Heechang Shin, Rutgers University
Topic: Ensuring Security and Privacy in a Personalized Mobile Environment, October 2010
- Dr. Qi Guo, Rutgers University
Topic: The Role Mining Problem: A Formal Approach, June 2010
- Dr. Wenhua Wu, University of Waterloo,
Topic: A Knowledge-Based System for the Integration of Computer Integrated Manufacturing Databases, December 1993.
- Dr. Fortune S. Mhlanga, Department of Computer Science, NJIT
Topic: D_Model and D_Algebra: A Data Model and Algebra for Office Documents, May 1993.
- Dr. Apostolos N. Burnetas, Rutgers University.
Topic: On Adaptive Estimation and Control for Markovian Decision Processes, July 1993.
- Dr. Chang Han Lee, Rutgers University.
Topic: Deterministic Models for Inventory Control Under Continuous Time-Varying Demand, October 1993.

Refereeing

NSF.
IEEE Transactions on Knowledge & Data Engineering
IEEE Transactions on Software Engineering
Knowledge & Data Engineering Journal
Journal of Management Information Systems
Management Science.
Operations Research.
IIE Transactions.
European Journal of Operational Research

Professional Activities (Partial List)

- Member of the Program Committee of the Tenth Conference on Business Information Systems (BIS 2007), 2007.
- Member of the Program Committee of the Intelligence and Security Informatics (ISI2007), 2007
- Member of the Program Committee of the 2nd International Workshop “Dependability and Security in e-Government” (DeSeGov2007), 2007
- Member of the Program Committee of the 2006 IEEE International Conference on Information Reuse and Integration, 2006
- Member of the Program Committee of the 4th International Conference on Service-Oriented Computing (ICOSC 2006), 2006
- Member of the Program Committee of the 6th Conference on Next Generation Information Technologies and Systems (NGITS’2006), 2006
- Member of the Program Committee of the Location-based Mobile Commerce Workshop (l-Commerce06), 2006
- Member of the Program Committee of the 2nd International Symposium on Visual Computing (ISVC06), 2006
- Member of the Program Committee of the 18th IEEE International Conference on Tools with Artificial Intelligence (ICTAI06), 2006
- Member of the Program Committee of the ICSOC Workshop on Dynamic Web Processing (DWP 2005), 2005
- Member of the Program Committee of the 14th International Workshop on Research Issues on Data Engineering, Web Services for E-Commerce and E-Government Applications, RIDE-WS-ECEG’2004
- Member of the Program Committee of the Conference on Privacy in Statistical Databases (PSD’ 2004), 2004
- Member of the Program Committee of the Eighteenth IEEE Symposium on Mass Storage Systems and the Ninth NASA Goddard Conference on Mass Storage Systems and Technologies, 2001
- Member of the Program Committee of the DEXA Electronic Commerce -Web 2000
- Member of the Program Committee of the Information Technology Applications in Biomedicine–IEEE EMBS Third International Conference (ITAB 2000–ITIS 2000), 2000
- Member of the Program Committee of the 15th IEEE Conference on Data Engineering (ICDE 99), 1999
- Member of the Program Committee of the Third IEEE Meta-Data Conference, 1999
- Member of the Program Committee of the First International Conference on Information and Computational Economies 1998.
- Member of the Program Committee of the Third International Conference on Cooperative Information Systems (CoopIS’98).
- Member of the Program Committee on Data Engineering and Information Super Highways, the IEEE 14th International Conference on Data Engineering, 1998
- Member of the Program Committee of Eighth International Workshop on Research Issues in Data Engineering: Continuous-Media Databases and Applications (RIDE’98), February 1998.
- General chair of the 1997 IEEE International Conference on Advances in Digital Libraries (IEEE ADL’97), May 1997.

- Member of the Program Committee of the International Symposium on Research, Development & Practice in Digital Libraries: ISDL'97, Japan.
- Program chair of the 1996 Forum on Research and Technology Advances in Digital Libraries (ADL'96), May 1996.
- Member of the Program Committee on Data Engineering and Information Super Highways, the IEEE 12th International Conference on Data Engineering, 1996
- Member of the Program Committee on Multimedia: Full-Service Impact on Business, Education, and Home, SPIE-The International Society for Optical Engineering, October 23-24, 1995.
- Program Committee Member of the Conference on Computer Integrated Manufacturing in the Process Industries, May 1994.
- Program Committee Member of the International Conference on ER Approach, 1993.
- Member of the Program Committee on Object-Oriented Systems, the IEEE Ninth International Conference on Data Engineering, 1993.
- Conference Committee Member of the 12th Annual International Conference on Information Systems, 1991.
- Program Committee Member of the International Conference on Databases, Parallel Architectures, and their Applications, 1990.
- Served on a two-members panel to conduct a site visit for the NSF CISE program at the Department of Computer Science at the University of North Carolina, Chapel Hill, April 1995.
- Working with the Law Library of Congress on developing a "Global Legal Information Network", 1995
- Co-Chairman of the Workshop on Current Issues in Databases and Applications, October 22-23, 1992, Rutgers University, Newark, New Jersey. Sponsored by Rutgers Graduate School of Management.
- Vice-Chairman of the Conference on Current Issues in Productivity, 1985, 1987, 1989, and 1991, Rutgers University, Newark, New Jersey.
- Co-Chairman of the Fourth Conference on Current Issues in Simulation, May 18-19, 1987, Rutgers University, Newark, New Jersey. Sponsored by the New York Chapter of the ACM, The Institute of Management Science and Rutgers Graduate School of Management.
- Chairman of the Conference on Current Issues in Database Systems, May 27, 1986, Rutgers University, Newark, New Jersey. Sponsored by Rutgers Graduate School of Management.
- Vice-Chairman of the Current Issues in Productivity, November 30-December 2, 1982, Cornell University, Ithaca, New York.
- Co-Chairman of the Conference on Computer Simulation: A Research Focus, May 4-5, 1982, Rutgers University, New Jersey. Sponsored by the New York Chapter of the ACM, the Operations Research Society of America, and the Rutgers Business Research Center.
- Chairman of the Conference on Computers in Small Business, November 6-7, 1980, Rutgers University, Newark, New Jersey. Sponsored by Rutgers Business Research Center and the U.S. Small Business Administration.

- Chairman of the Conference on Computer Simulation, April 21-22, 1980, Columbia University, New York. Sponsored by the New York Chapter of the ACM.
- Vice-Chairman of the Conference on Current Issues in Productivity, April 18-20, 1979, Columbia University, New York.
- Chairman of the Conference on Simulation, May 3-5, 1978, Columbia University, New York, sponsored by the New York Chapter of the ACM.
- Invited to conduct several seminars on Systems Simulation as part of the Professional Development Seminars of the New York Chapter of the ACM.
- Chairman of the Special Interest Group on Simulation of the New York Chapter of the ACM, 1977-1987.
- Project Manager of the Simulation Project of SHARE INC., 1976-77.
- Conducted a Systems Simulation and Languages Seminar as part of the Columbia University Computer Center Education Program for the University Community, March 1974.

Courses Taught

- Research Seminar in Computer Applications (Ph.D.).
- Applications of Database Systems (Ph.D.).
- Seminar in Object-Oriented Database Systems (Ph.D.)
- Statistical Aspects of Stochastic Simulation (Ph.D.).
- Planning Models in Operations Management (Ph.D.).
- Control Models in Operations Management (Ph.D.).
- Databases: Theory and Applications (Dept. of Comp. Science, New Brunswick)
- Database Systems (MBA).
- Computers and Information Systems (MBA).
- AI & Expert Systems: Concepts and Applications (MBA).
- Data Structures and Databases (MBA).
- Seminar in Object-Oriented Systems: Concepts & Applications (MBA)
- Database Processing (MBA).
- Theory and Practice of Simulation (MBA).
- Computer Technology (MBA).
- Deterministic Optimization Models (MBA).
- Operations Management (MBA).

University and School Activities

- Elected by the senate to serve on the Senate Executive Committee, 2007-2008
- Elected as a member of the University Senate, 2007-2010
- Elected by the Newark Faculty Council to serve on the nine-faculty university-wide President Advisory Council, 1996, 2001, 2004-2005.
- Elected by the FoM faculty to serve on the Newark Faculty Council, 1992-1994, 1994-1997, 1999-2002, 2003-2005. Served as the Chair in 2004.
- Appointed by the President to serve as a member of a university-wide committee on "Information Sciences and Related Fields," 1995 - 1996.

- Appointed by the Provost to serve as a member of the Newark Campus Environment Committee, 1995.
- Appointed by the Vice President for Computing to serve as a member of the University Computing and Information Policy Advisory Committee, 1993-1996.
- Appointed by the Provost to serve as the chairman of the Newark Campus Computer Planning Committee, 1983-present. In addition, I was appointed by the Provost to serve as a member of that committee during the period 1978-83.
- Appointed by the Vice President for Computing to serve as the chair of the search committee for the Director of the Newark Computing Services, 1994.
- Appointed by the Provost to serve on the Resources and Facilities Task Force as part of the Newark Business Education Reorganization efforts, 1992.
- Appointed by the Dean to serve on the Appointments and Promotions Committee, 1992.
- Appointed by the Dean to serve on the GSM Planning Committee, 1987-1989, 1992.
- Appointed by the Dean to serve on the GSM Computer Policy Committee, 1991-1994.
- Appointed by the Assoc. Vice President for Information Services to serve on the search committee for the Director of the University Centers for Computers and Information Services, 1990.
- Appointed by the Vice President for Information Services to serve on the university-wide "Academic Computing Advisory Committee," 1990-1992.
- Appointed by the Vice President for Research to serve on the university-wide "Supercomputer Faculty Support Committee," 1988-89.
- Appointed by the Provost to serve as a member of the "Middle States Association Newark Campus Subcommittee on Instructional Resources and Equipment," 1986-1988.
- Appointed by the Dean to serve as the chairman of the GSM "Research Resources Committee," 1986-1992. (In addition, I was repeatedly elected by GSM faculty to serve as a member of that committee during the period 1980-1986.)
- Appointed by the Dean to serve as a member of the GSM "Ph.D. Policy Committee," 1984-1988.
- Chaired a departmental committee for developing an MBA major in Computer and Information Systems, 1986-1987.
- Developed the following Ph.D. courses: 198:680 Applications of Database Systems, 711:676 Statistical Aspects of Stochastic Simulation.

Service to New Jersey State Government

Appointed by the Executive Director of the New Jersey Commission of Science and Technology to serve as a member of the "Working Group of Logistics," 1986-1989.