

# Fariborz Farahmand

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## EDUCATION

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- 12/ 2004      **Ph.D. in Information and Computer Science**  
College of Computing, Georgia Institute of Technology  
Dissertation Title: Developing a Risk Management System for  
Information Systems Security Incidents  
Advisor: Professor Shamkant B. Navathe  
Academic minor: Management and Information Systems
- 5/2001      **M.S. in Information and Computer Science**  
College of Computing, Georgia Institute of Technology  
Advisor: Professor Philip H. Enslow  
Academic minor: Management
- 5/1996      **M.Sc. in Civil Engineering, (Top 5%)**  
College of Engineering, University of Manitoba, Canada  
Specialization: Structural Engineering  
Thesis Title: Shear Behavior of Concrete Beams Reinforced with  
Glass Fiber Reinforced Plastic  
Advisor: Professor Sami H. Rizkalla
- 5/1992      **B.Sc. in Civil Engineering, (Top 5%)**  
College of Engineering, Tehran Polytechnic University, Tehran, Iran

## PROFESSIONAL EXPERIENCE

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- 9/2005- present      **Visiting Assistant Professor**, Krannert School of Management, Purdue  
University, West Lafayette, IN
- 1/2005-9/2005      **Consultant**, Performance IT Inc., Atlanta, GA
- 5/2003-12/2004      **Research Assistant**, Georgia Tech Information Security Center, Georgia  
Institute of Technology, Atlanta, Georgia
- 9/1999 – 5/2003      **Instructor & Teaching Assistant**, Georgia Institute of Technology,  
Atlanta, Georgia
- 5/1999 – 9/1999      **Project Manager**, Global Technology Solutions, Nortel Networks,  
Atlanta, Georgia
- 9/1998-5/1999      **Research Assistant**, Dept. of Civil and Environmental Engineering,  
Georgia Institute of Technology, Atlanta, Georgia

- 9/1997-9/1998      **Research Assistant**, Center for Sustainable Technology, Georgia Institute of Technology, Atlanta, Georgia
- 3/1997-9/1997      **Project Manager**, Georgia State Finance and Investment Commission, Atlanta, Georgia
- 9/1996-3/1997      **Teaching and Research Assistant**, Dept. of Civil and Environmental Engineering, Georgia Institute of Technology, Atlanta, Georgia
- 9/1994-9/1996      **Instructor & Research Assistant**, Department of Civil & Geotechnical Engineering, University of Manitoba, Winnipeg, Manitoba, Canada
- 5/1992-9/1994      **Supervisory Engineer**, 1992 - 1994, Abneyeh Fanny Consulting Engineers, Tehran, Iran

## **AWARDS AND HONORS**

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- Outstanding Teaching Award, Purdue Homeland Security Institute, Purdue University, West Lafayette, IN, 2006.
- The Institution for Information Infrastructure Protection (The I3P) Fellowship, 2005.
- Georgia Tech Information Security Center Fellowship, Georgia Institute of Technology, Atlanta, GA, 2003.
- Canadian Bureau of International Education Award, University of Manitoba, Winnipeg, Canada, 1996.
- Representing international students of Canada in United Nations Youth Summit, United Nations General Assembly, New York, Aug. 1995.
- Advisory Board, United Nations Youth Forum, 1995-1996.
- Graduate Studies Scholarship, University of Manitoba, Winnipeg, Canada, 1995.
- Top Ten Graduate Students, Graduate Student Competition, Canadian Society for Civil Engineers, Ottawa, Canada, 1995.
- Highest standing among the Nation of Civil Engineering in the Iranian National Board Examination, Tehran, Iran, 1993.

## **REFEREED PUBLICATIONS**

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- **Fariborz Farahmand**, Shamkant B. Navathe, Gunter P. Sharp, Philip H. Enslow, "A Management Perspective on Risk of Security Threats to Information Systems," *Journal of Information Technology & Management*, Springer Publications, Apr. 2005, Vol. 6, Numbers 2-3, pp. 203-225.
- **Fariborz Farahmand**, Shamkant B. Navathe, Gunter P. Sharp, Philip H. Enslow, "Assessing Damages of Information Security Incidents and Selecting Control Measures, a Case Study Approach," *Fourth Workshop on the Economics of Information Security, WEIS05*, Kennedy School of Government, Harvard University, Jun.2, 2005, 11 pages.
- **Fariborz Farahmand**, "Developing a Risk Management System for Information Systems Security Incidents," Ph.D. Dissertation, College of Computing, Georgia Institute of Technology, Dec. 2004.
- **Fariborz Farahmand**, Shamkant B. Navathe, Gunter P. Sharp, Philip H. Enslow, "Data Confidentiality in E-commerce and E-government," *Proceedings of the 2004 International Conference on Security and Management*, Las Vegas, Nevada, Jun. 2004, pp. 391-394.

- **Fariborz Farahmand**, Shamkant B. Navathe, Gunter P. Sharp, Philip H. Enslow, “Managing Vulnerabilities of Information Systems to Security Incidents,” *5th ACM International Conference on Electronic Commerce, ICEC 2003*, Pittsburgh, PA, Sept. 30-Oct. 3, 2003, pp. 348-354.
- **Fariborz Farahmand**, William J. Malik, Shamkant B. Navathe, Philip H. Enslow, “Security Tailored to the Needs of Business,” *ACM Workshop on Business Driven Security Engineering, ACM CCS BIZSEC 2003*, Fairfax, VA, Oct. 2003, 8 pages.
- **Fariborz Farahmand**, Shamkant B. Navathe, Philip H. Enslow, “Electronic Commerce and Security - A Management Perspective,” *The 7th INFORMS/Information System Society Annual Conference (CIST 2002)*, San Jose, Nov. 16-17, 2002, 10 pages.

## BOOK AND BOOK CHAPTERS

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- **Fariborz Farahmand**, “Database Security,” *Fundamentals of Database Systems*, by R. Elmasri, & S. B. Navathe, Addison-Wesley, 2006, Fifth Edition, Chapter 23, pp. 804-821.
- **Fariborz Farahmand**, Shamkant B. Navathe, Gunter P. Sharp, Philip H. Enslow, “Evaluating Damages Caused by Information Systems Security Incidents,” *Advances in Information Security; Economics of Information Security*, edited by: L. Jean Camp & Stephen Lewis, Springer/Kluwer Academic Publications, 2004, Chapter 7, pp. 85-94.
- **Fariborz Farahmand**, “Database Security,” *Fundamentals of Database Systems*, by: R. Elmasri, & S. B. Navathe, Addison-Wesley, 2004, Fourth Edition, Chapter 23, pp. 740-752.
- **Fariborz Farahmand**, “*Vocabulary of Civil Engineering Terms*,” Iran University Press, Tehran, Iran, 1996, 3rd printing 2004, 454 pages.

## WORKING PAPERS

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- **Fariborz Farahmand**, Shari L. Pfleeger, Eugene H., Spafford, “Trust, Risk and Economic Benefits in Online Environments,” submitted to *Management Information Systems Quarterly*, Apr. 2007.
- **Fariborz Farahmand**, Annie I. Antón, Eugene H. Spafford, “Perceptions of Healthcare Information Systems,” for submission to *IEEE Transactions on Engineering Management*, Jun. 2007.
- **Fariborz Farahmand**, Melissa J. Dark, Eugene H., Spafford, “Perceptions and Misperceptions of Information Systems Risk,” for submission to *ACM Transactions on Information Systems*, May 2007.
- **Fariborz Farahmand**, Christopher W. Clifton, Eugene H. Spafford, “Risk Mitigation in Privacy Preserving Databases,” for submission to *IEEE Transactions on Knowledge and Data Engineering*, Apr. 2007.
- **Fariborz Farahmand**, Eugene H., Spafford, “Perceptions of Information Security Risks and Implications for Public Policy,” for submission to *Journal of Accounting and Public Policy*, Jul 2007.

## INVITED PRESENTATIONS

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- “Perceptions of Information Security Risks and Implications for Public Policy,” 2007 Forum on Financial Information Systems and Cyber Security: A Public Policy Perspective, Robert H. Smith School of Business, University of Maryland, College Park, MD, May 23, 2007.

- “Information Security Management based on Acceptable Risk,” George Mason University, Fairfax, VA, Jun 1, 2006.
- “How to Assess Risk of Security Incidents,” University of Houston, Houston, TX, Feb. 3, 2006.
- “A Multidisciplinary Approach to Manage the Risk of Information Systems Security and Privacy Incidents,” University of Maryland, College Park, MD, Apr. 6, 2006.
- “Evaluating damages Caused by Information Systems Security Incidents,” Second International Annual Workshop of Economics and Information Security, WEIS03, University of Maryland, May 29 2003.
- “Toward a Risk Management Model for IS Security,” INFORMS Annual Meeting, Atlanta, GA, Oct. 19, 2003.

## OTHER PUBLICATIONS

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- **Fariborz Farahmand**, “*Shear Behavior of Concrete Beams Reinforced with Glass Fiber Reinforced Plastic*,” M.Sc. Thesis, School of Engineering, University of Manitoba, Canada, 1996.
- **Fariborz Farahmand**, “*A Study for Curriculum for Sustainable Development and Technology*,” Center for Sustainable Technology, Georgia Institute of Technology, Atlanta, Georgia, 1997, 56 pages.
- **Fariborz Farahmand**, “*Biography of Nehru*,” Ministry of Culture & Higher Education, Tehran, Iran, 1994, 75 pages.
- **Fariborz Farahmand**, “Guide for Widening of Highway Bridges,” *Journal of the Iranian Ministry of Road & Transportation*, Tehran, Iran, Spring 1995, pp. 53-68.
- **Fariborz Farahmand**, “Repair & Strengthening of Damaged Concrete Beams,” *Journal of the Iranian Ministry of Road & Transportation*, Tehran, Iran, Summer 1993, pp. 25-31.

## COURSES TAUGHT/SERVED AS SENIOR TEACHING ASSISTANT

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- Foundations in Homeland Security Studies I and II, 2 semesters, graduate/senior undergraduate level, Krannert School of Management, Purdue University (Fall 2006-Spring 2007)
- Independent Study on Information Security Management, 2 semesters, undergraduate level, Krannert School of Management, Purdue University (2005-2006)
- Introduction to Database Systems, 3 semesters, graduate/senior undergraduate level, College of Computing, Georgia Institute of Technology (2002-2004)
- Database Technologies, 1 semester, graduate/senior undergraduate level, College of Computing, Georgia Institute of Technology (2002-2003)
- Information Systems and Assurance, 2 semesters, graduate/senior undergraduate level College of Computing, Georgia Institute of Technology (2001-2002)
- Telecommunication and Networking, 2 semesters, undergraduate level, College of Computing, Georgia Institute of Technology (2000-2001)
- Engineering Management, 3 semesters, undergraduate level, College of Architecture, Georgia Institute of Technology (1998-2000)
- Mechanics of Materials, 4 semesters, undergraduate level, College of Engineering, University of Manitoba, Canada (1994-1997)

## FUNDING

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- *Developing a Risk Management System for Information Systems Security Incidents*  
Agency: College of Computing, Georgia Institute of Technology  
PI: Fariborz Farahmand  
Amount: \$25,000  
Duration: 9/2003-9/2004
- *Measuring, Managing, and Mitigating Information Security Risk*  
Agency: The Institution for Information Infrastructure Protection  
PI: Fariborz Farahmand  
Amount: \$149,643  
Duration: 9/2005-9/2007
- *Human Behavior, Insider Threat and Awareness*  
Agency: Department of Homeland Security  
PI: Fariborz Farahmand, Co-PI: Eugene H. Spafford  
Amount: \$300,000  
Duration: 4/2007-4/2009
- *Reconciling User Perceptions of Risk and Privacy Policies*  
Agency: National Science Foundation  
PI: Eugene H. Spafford, Co-PI: Fariborz Farahmand, Melissa J. Dark,  
Amount: \$500,000 (pending)  
Duration: 9/2007-9/2009
- *Managing Information Systems Security based on Risk Tolerance*  
Agency: Deloitte & Touche LLP  
PI: Fariborz Farahmand, Senior Personnel: Eugene H. Spafford  
Amount: \$120,000 (pending)  
Duration: 12/2007-12/2008

## PROFESSIONAL SERVICES

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- Curriculum development, Area of Speciation for the Department of Homeland Security, Purdue University, Feb. 2006-present.
- Reviewer, Management of Information Systems Quarterly, Mar. 2006-present.
- Reviewer, first Annual Workshop on Information Security and Assurance, WISA, Milwaukee, Wisconsin, Dec. 2006.
- Reviewer, 16th Workshop on Information Technologies and Systems, WITS, Milwaukee, Wisconsin, Dec. 2006.
- Session Chair, Security and Assurance: Economic Issues and Security, International Conference on Information Systems, ICIS, Las Vegas, Nevada, Dec. 2005.
- Session Chair, Management & Algorithms, 2004 International Conference on Security and Management, SAM'04, Las Vegas, Nevada, Jun 2004.