

Yanjun Zuo

The University of North Dakota
Accountancy and Information Systems
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Education

Ph D, University of Arkansas - Fayetteville, USA, 2005.

Major: Computer Science

Supporting Areas of Emphasis: Computer Security and Information Assurance, Database Systems, and Networking

Dissertation Title: "Towards a Framework of Object Trust Management for Information Assurance Within a Virtual Organization"

MS, University of Arkansas - Fayetteville, USA, 2003.

Major: Computer Science

Supporting Areas of Emphasis: Computer Security and Information Assurance, Database Systems, and Networking

MBA, University of North Dakota, USA, 2000.

Major: Business Administration

Supporting Areas of Emphasis: Computer Science/Information Systems

BS, Central South University, China, 1992.

Major: Mechanical Engineering

Supporting Areas of Emphasis: Machinery Design

Academic, Military and Professional Positions

Academic

Professor Information Systems, University of North Dakota. (August 16, 2014 - Present).

Adjunct Professor Computer Science, University of North Dakota. (October 2010 - Present).

Associate Professor Information Systems, University of North Dakota. (August 16, 2010 - May 15, 2014).

Assistant Professor Information Systems, University of North Dakota. (August 16, 2005 - August 15, 2010).

Senior Research Assistant, University of Arkansas. (August 16, 2001 - August 3, 2005).

Graduate Teaching Assistant, University of North Dakota. (August 16, 1999 - December 15, 2000).

Licensures and Certifications

Sun Certified Programmer for Java 2 Platform, Sun Microsystems, Inc. (2002 - 2006).

Cisco Certified Network Associate (CCNA), Cisco Systems, Inc. (2002 - 2005).

Professional Memberships

Full member, Graduate Faculty of the University of North Dakota. (October 2010 - Present).

Beta, Gamma, Sigma. (August 2011 - 2015).

Association for Information Systems. (December 2010 - 2015).

Associate member, Graduate Faculty of the University of North Dakota. (March 5, 2007 - October 2010).

Assistant Member, Graduate Faculty of the University of North Dakota. (2006 - March 2007).

Development Activities Attended

Course development, "Acct 527: IT Governance and Audit." (August 2019 - December 2019).

Content development, "ISBC 330 - Database Management." (September 2018 - January 2019).

New content development, "ISBC 300 - Programming for Data Analytics." (November 2017 - August 2018).

New Course Development, "ISBC 300 Applications Development." (September 2016 - December 2016).

New Course Development, "ISYS 499 Special Topic: Network and Applications Security." (August 2010 - January 2011).

New Course Development, "ISYS 499 Special Topic: Web Applications Development." (August 2008 - January 2009).

Attended Conference, "National Source Foundation Regional Grants Conference," National Source Foundation, Portland, OR. (October 21, 2007 - October 23, 2007).

Workshop, "Recent Advanced in Information Assurance, Network and Software Security 2006 Symposium," St. Cloud State University, St. Cloud, Minnesota. (May 2006).

New Course Development, "ISYS 499 Special Topic: Information Security." (August 2005 - January 2006).

Awards and Honors

2011-2012 Established Faculty Research Award, UND College of Business and Public Administration. (September 2012).

2011 North Dakota Spirit Faculty Achievement Award, The University of North Dakota. (February 2011).

2010 North Dakota Spirit Faculty Achievement Award, University of North Dakota. (February 2010).

2008-2009 Meritorious Award for Excellence in Teaching, Research, and Service, College of Business and Public Administration. (October 2009).

2009 North Dakota Spirit Faculty Achievement Award, University of North Dakota. (February 2009).

2007 - 2008 Meritorious Award for Excellence in Teaching, Research, and Service, College of Business and Public Administration. (September 2008).

2006-2007 Meritorious Award for Excellence in Research, College of Business and Public Administration, University of North Dakota. (September 2007).

TEACHING

Teaching Experience

The University of North Dakota

Accounting 527, IT Governance and Audit, 2 courses.

Information Systems and Business Communication 117, Personal Prod with Info Tech, 8 courses.

Information Systems and Business Communication 217, Fundamentals of CIS, 10 courses.

Information Systems and Business Communication 240, Operating Systems Principles, 3 courses.

Information Systems and Business Communication 300, Programming for DA, 6 courses.

Information Systems and Business Communication 317, Info Systems in Enterprise, 4 courses.

Information Systems and Business Communication 330, Database Management, 7 courses.

Information Systems and Business Communication 410, Information Security, 9 courses.

Information Systems and Business Communication 471, Adv. Info. Systems Programming, 1 course.

Information Systems and Business Communication 510, Information Systems, 6 courses.

Information Systems and Business Education 117, Personal Prod with Info Tech, 7 courses.

Information Systems and Business Education 260, Operating Systems Principles, 12 courses.

Information Systems and Business Education 317, Info Systems in Enterprise, 13 courses.

Information Systems and Business Education 499, Special Topics, 10 courses.

Information Systems and Business Education 510, Information Systems, 4 courses.

Information Systems and Business Education 540, Spec Distance Educational Topic/Career & Tech Ed, 3 courses.

RESEARCH

Published Intellectual Contributions

Book Chapters

Natesan, G., Liu, J., Zuo, Y. (2018). In Latifi S. (Ed.), *An Integrated Framework for Evaluating the Security Solutions to IP-based IoT Applications* (vol. 558, pp. 227-234). Information Technology - New Generations. Advances in Intelligent Systems and Computing, Springer, Cham.

Zuo, Y. (2013). *Modeling Service Migration and Relocation in Mission-Critical Systems*. Heidelberg: Critical Infrastructure Protection VII/Springer.

Zuo, Y. (2010). *Survivability in RFID Systems* (1st ed., vol. 978-1-61520-761-9, pp. 300-312). Hershey, PA: Book Chapter: Handheld Computing for Mobile Commerce: Applications, Concepts and Technologies, IGI Global.

Hu, W.-C., Zuo, Y., Chen, L., Yang, C.-H. (2008). *Adaptive Mobile Web Browsing Using Web Mining Technologies* (Secion 2, Chapter X ed.). Idea Group Reference: Business Web Strategies - Design, Alignment, and Application.

Hu, W.-C., Zuo, Y., Yang, C.-H., Yapin, Z. (2008). *Handheld Programming Languages and Environments* (vol. IV). IRM Press: Encyclopedia of Information Science and Technology.

Refereed Journal Articles

Zuo, Y. (in press). Making Smart Manufacturing Smarter – a Survey on Blockchain Technology in Industry 4.0. *Enterprise Information Systems*.

Zuo, Y. (in press). Big Data and Big Risk - A Four-factor Framework for Big Data Security and Privacy. *International Journal of Business Information Systems*.

Zuo, Y. (in press). Towards a Trustworthy RFID System – From a Security Perspective. *International Journal of Business Information Systems*.

Zuo, Y., Liu, J. (2017). A Reputation-based Model for Mobile Agent Migration for Information Search and Retrieval. *International Journal of Information Management*, 37(5), 357-366.

Sedgeman, P., Zuo, Y. (2015). "Web of Things": Readiness and Applications from a Business and Consumer Perspective. *International Journal of Business Information Systems*, 18(3), 321-337.

Zuo, Y. (2014). A Constrained, Possibilistic Logical Approach for Software System Survivability Evaluation. *International Journal of Software Engineering and Knowledge Engineering*, 24(5), 777-800.

Gackle, B., Zuo, Y. (2014). A New Approach for Credit Extended Mobile Phone Payment. *International Journal of Business Information Systems/Inderscience Publishers*, 15(4), 434-449.

Zuo, Y., Panda, B. (2013). Composition and Combination-Based Object Trust Evaluation for Knowledge Management in Virtual Organizations. *VINE - The Journal of Information and Knowledge Management Systems/Emerald*, 43(3), 296-321.

Zuo, Y. (2013). Toward an RFID Scheme for Secure Material Flow Tracing and Verification in Supply Chains. *International Journal of Handheld Computing Research/IGI*, 4(4), 72-89.

Zuo, Y. (2012). Automatic Proof of Survivability Compliance - Approaches and Techniques. *International Journal of Computer Theory and Engineering/IACSIT*, 4(5), 740-744.

Zuo, Y. (2012). Survivability Experiment and Attack Characterization for RFID. *IEEE Transactions on Dependable and Secure Computing/IEEE*, 8(5), 289-302.

Zuo, Y. (2011). Survivability Enhancing Techniques for RFID Systems. *International Journal of Handheld Computing Research/IGI*, 2(1), 25-40.

Zuo, Y. (2010). Survivable RFID Systems: Issues, Challenges, and Techniques. *IEEE Transactions on Systems, Man, and Cybernetics, Special Issue on Availability, Reliability and Security/IEEE*, 40(4), 406-418.

Hu, W.-C., Zuo, Y., Chen, L., Yang, H.-J. (2010). Contemporary issues in handheld computing research. *International Journal of Handheld Computing Research*, 1(1), 1-23.

Zuo, Y. (2010). Secure and Private Search Protocols for RFID Tags. *Special Issue on Advances in RFID Technology, Information Systems Frontiers: A Journal of Research and Innovation/Springer*, 12(5), 507-550.

- Zuo, Y. (2009). Prompt Damage Identification for System Survivability. *International Journal of Information and Computer Security/Inderscience Publishers*, 2(4), 411-433.
- Zuo, Y., Hu, W.-C. (2009). Trust-based Information Risk Management for a Supply Chain Network. *International Journal of Information Systems and Supply Chain Management/IGI Global*, 2(3), 19-34.
- Zuo, Y., Panda, B. (2008). A Two-level Decision Model for Information Assurance. *Decision Support Systems/Elsevier Publishers*, 45(2), 291-309.
- Zuo, Y. (2007). Component Comparison Based Information Quality Assurance. *International Journal of Information Quality/Inderscience Publishers*, 1(3), 295-313.
- Zuo, Y., O'Keefe, T. (2007). Post-release Information Privacy Protection: A Framework and Next-generation Privacy-enhanced Operating Systems. *Special Issues on Secure Knowledge Management, Information Systems Frontiers: A Journal of Research and Innovation/Springer*, 9(4), 451-467.
- Zuo, Y., Panda, B. (2006). Distributed Database Damage Assessment and Recovery. *Information Management & Computer Security/Emerald*, 14(2), 116 - 139.
- Zuo, Y., Panda, B. (2005). A Framework for Information Assurance in Virtual Organizations Based on Object Trust. *Special Issue of International Journal for Infonomics on Applied Computational Trust*.

Conference Proceedings

- Zuo, Y. (2016). *Reputation-based Service Migration for Moving Target Defense* (pp. 239-246). IEEE International Conference on Electro/Information Technology.
- Zuo, Y. (2015). *A Holistic Approach for Service Migration Decision, Strategy and Scheduling* (pp. 14-17). 10th Annual Symposium on Information Assurance.
- Zuo, Y. (2015). *Fuzzy Inference for Service Migration Strategy* (pp. 54-61). IEEE International Conference on Electro/Information Technology.
- Zuo, Y., Liu, J. (2015). *Mobile Agent-based Service Migration* (pp. 8-13). The International Conference on Information Technology: New Generations.
- Zuo, Y. (2015). *Belief-based Decision Making for Service Migration* (pp. 5212-5221). 48th Annual Hawaii International Conference on System Sciences.
- Larson, D., Liu, J., Zuo, Y. (2014). *Analyzing the Vulnerabilities in GWT Code and Applications* (pp. 525-530). Second International Symposium on Computing and Networking.
- Zuo, Y. (2014). *Data labeling for integrity in SCADA systems* (pp. 111-118). 13th IEEE/ACIS International Conference on Computer and Information Science.
- Zuo, Y., Wang, X. (2014). *Semantic Specification of Service Migration for System Survivability*. 2014 IEEE International Conference on Electro/Information Technology.
- Zuo, Y. (2014). *A Logic Based Approach for Service Migration Scheduling* (pp. 226-233). 9th International Conference on Cyber Warfare and Security.

- Zuo, Y. (2013). *Towards a Service Migration Architecture for Service Availability* (pp. 7). International Conference on Security and Management.
- Zuo, Y. (2013). *Moving and Relocating: A Logical Framework of Service Migration for Software System Survivability* (pp. 10). IEEE 7th International Conference on Software Security and Reliability.
- Julic, J., Zuo, Y. (2012). *An RFID Survivability Impact Model in the Military Domain* (pp. 9). Association for Information Systems: 18th Americas Conference on Information Systems.
- Zuo, Y. (2012). *Incorporating Constraints to Software System Survivability Specification and Proof* (pp. 67-74). IEEE/IFIP: 6th IEEE International Symposium on Theoretical Aspects of Software Engineering.
- Zuo, Y. (2012). *Towards a Logical Framework for Migration-based Survivability* (pp. 4). 7th Annual Symposium on Information Assurance.
- Zuo, Y., Babin, J. (2012). *Searching for the Optimal Proof Schedule in a Proof-Carrying Survivability Paradigm - A Dynamic, Interactive Approach* (pp. 8 pages). International Conference on Information Technology - New Generations.
- Zuo, Y., O'Keefe, T. (2011). *RFID-enabled Logistic Flow Tracing in Supply Chains: Communications, Protocol, and Security*. IEEE Global Communication Conference (GlobeCom 2011).
- Zuo, Y., Lande, S. (2011). *A Logical Framework of Proof-Carrying Survivability* (pp. 10 pages). 10th IEEE International Conference on Trust, Security and Privacy in Computing and Communications.
- Zuo, Y. (2011). *Defining Security Requirements - a Flexible, Balanced, Threshold-based Approach* (pp. 10 pages). 17th Americas Conference on Information Systems (AMCIS 2011).
- Zuo, Y. (2010). *A Holistic Approach for Specification of Security Requirements in Ubiquitous Computing* (pp. 18). 2010 International Conference on Information Systems (ICIS 2010).
- Hu, W.-C., Zuo, Y., Kaabouch, N., Chen, L. (2010). An optimization neural network for smartphone data protection. *2010 IEEE International Conference on Electro/Information Technology*. Institute of Electrical and Electronics Engineers (IEEE).
- Hu, W.-C., Zuo, Y., Kaabouch, N., Chen, L. (2010). *An optimization neural network for smartphone data protection*. Normal, Illinois: 2010 IEEE International Conference on Electro/Information Technology (EIT 2010).
- Zuo, Y., Lande, S., Pimple, M. (2010). *Analysis and Simulation of System Survivability* (pp. 36-41). the 7th International Conference on Information Technology: New Generations/IEEE Computer Society.
- Zuo, Y., Hu, W.-C., O'Keefe, T. (2010). *Securely Querying Sensor Associated RFID Virtual Databases* (pp. 619-624). Las Vegas, NV: the 7th International Conference on Information Technology: New Generations/IEEE Computer Society.
- Zuo, Y. (2010). *An Adaptation Based Survivability Framework for Mission Critical Systems* (pp. 361-369). The 5th International Conference on Information Warfare and Security.
- Zuo, Y. (2010). *RFID Survivability Quantification and Attack Modeling* (pp. 13-18). ACM: the Third ACM Conference on Wireless Network Security.

- Zuo, Y. (2010). *A Framework of Survivability Requirement Specification for Critical Information Systems* (1st ed., vol. 1, pp. 10 pages). 43th Hawaii International Conference on Systems Sciences/IEEE Computer Society (HICSS-43).
- Zuo, Y. (2010). *Changing Hands Together: A Secure Group Ownership Transfer Protocol for RFID Tags* (1st ed., vol. 1, pp. 10 pages). The 43th Hawaii International Conference on System Sciences/IEEE Computer Society (HICSS-43).
- Hu, W.-C., Zuo, Y., Kaabouch, N., Yang, H.-J. (2009). Mobile Data Protection Using Handheld Usage Context Matching. *2009 Tenth International Conference on Mobile Data Management: Systems, Services and Middleware*. Institute of Electrical and Electronics Engineers (IEEE).
- Zuo, Y. (2009). *A Framework for RFID Survivability Requirement Analysis and Specification* (pp. 7 pages). International Joint Conference on Computing, Information and Systems Sciences and Engineering.
- Hu, W.-C., Zuo, Y., Kaabouch, N., Yang, H.-J. (2009). *Mobile Data Protection Using Handheld Usage Context Matching*. International Workshop on the Roles of Services, Ontologies, and Context in Mobile Environments.
- Zuo, Y. (2009). *Unifying Strategies and Tactics: A Survivability Framework for Countering Cyber Attacks* (pp. 119-124). Dallas, TX: IEEE International Conference on Intelligence and Security Informatics.
- Zuo, Y. (2009). *Object Version Reconstruction for Information Assurance*. Wuhan International Conference on E-Business.
- Zuo, Y., Hu, W.-C., O'Keefe, T. (2009). *Trust Computing for Social Networking* (pp. 1534-1539). Las Vegas, NV: IEEE Computer Society.
- Hu, W.-C., Zuo, Y., Krishna, V. (2008). *Handheld Device Data Protection Using Pattern Identification* (1st ed., pp. 237-340). Ames, Iowa: IEEE 2008 Electro/Information Technology Conference.
- Zuo, Y., Panda, B. (2007). *Network Viruses - Threats to Business Information Systems* (1st ed., vol. 1, pp. 1275-1283). Wuhan: The Sixth Wuhan International Conference on E-Business/Alfred University Press.
- Turquotte, J., O'Keefe, T., Zuo, Y. *The Effects of E-Commerce on Small Rural Businesses: An Assessment Utilizing Actual Sales Data*. Wuhan: Proceedings of the Sixth Wuhan International Conference on E-Business.
- Zuo, Y., O'Keefe, T. (2006). *Owner-controlled Information Privacy Protection Paradigm* (vol. CD-ROM Publication). New York: The Second Secure Knowledge Management Workshop (Conference Proceeding).
- Zuo, Y., O'Keefe, T. (2006). *A Framework for Detection of Information Privacy Violations* (vol. 2, pp. 1404-1411). Wuhan: The 5th Wuhan International Conference on E-business (Conference Proceeding).
- Zuo, Y., Panda, B. (2006). *A Performance-based Reputation Model for Electronic Marketplace* (vol. 2, pp. 1412-1420). Wuhan: The 5th Wuhan International Conference on E-business (Conference Proceeding).

Zuo, Y., Panda, B. (2006). *Information Trustworthiness Evaluation Based on Trust Combination* (pp. 1880-1885). New York, NY: The 21th Annual ACM Symposium on Applied Computing/ACM Press (Conference Proceeding).

Zuo, Y., Panda, B. (2005). *Trust-based Policy-oriented Decision Models and a Policy Language for Information Integrity in Open Systems* (pp. 337-356). New York, NY: The IFIP TC-11 WG 11.1 & 11.5 Joint Working Conference on Security Management, Integrity, and Internal Control in Information Systems/Springer Publishers.

Zuo, Y., Panda, B. (2005). *Object Trust Zone Mapping for Information Clustering* (pp. 197-206). The 3rd International Workshop on Security in Information Systems/INSTICC Press.

Zuo, Y., Panda, B. (2005). *Component Based Trust Management within the Context of a Virtual Organization* (pp. 1582-1588). New York, NY: The 20th Annual ACM Symposium on Applied Computing/ACM Press.

Other

Hu, W.-C., Zuo, Y. (2010). *Handheld Computing for Mobile Commerce: Applications, Concepts and Technologies* (pp. 463 pages). Hershey, PA: Information Science Reference.

Hu, W.-C., Zuo, Y., Kaabouch, N., Chen, L. (2010). *A technological perspective of mobile and electronic commerce systems* (pp. 16-35). Hershey, PA: Information Science Reference.

Presentations Given

Zuo, Y. (Presenter & Author), IEEE International Conference on Electro/Information Technology, "Reputation-based Service Migration for Moving Target Defense," Grand Forks, ND. (May 2016).

Zuo, Y. (Presenter & Author), IEEE International Conference on Electro/Information Technology, "Fuzzy Inference for Service Migration Strategy," IEEE Region 4 (R4), DeKalb, IL, USA. (May 2015).

Zuo, Y. (Presenter & Author), 13th IEEE/ACIS International Conference on Computer and Information Science, "Data Labeling for Integrity in SCADA Systems," IEEE/ACIS, Taiyuan, China. (June 2014).

Zuo, Y. (Presenter & Author), The International Conference on Security and Management, "Towards a Service Migration Architecture for Service Availability," Las Vegas, NV, USA. (July 2013).

Zuo, Y. (Presenter & Author), IFIP WG 11.10 International Conference on Critical Infrastructure Protection, "Modeling Service Migration and Relocation in Mission-Critical Systems," Washington D.C. (March 19, 2013).

Zuo, Y. (Presenter Only), UND Graduate School 2013 Scholarly Forum, "Web-of-Things (WoT) Readiness from a Business and Consumer Perspective," UND Graduate School, Grand Forks, ND. (March 5, 2013).

Zuo, Y. (Presenter & Author), 18th Americas Conference on Information Systems, "An RFID Survivability Impact Model in the Military Domain," Association for Information Systems, Seattle, WA. (August 10, 2012).

- Zuo, Y. (Presenter & Author), 6th IEEE International Symposium on Theoretical Aspects of Software Engineering, "Incorporating Constraints to Software System Survivability Specification and Proof," IEEE/IFIP, Beijing, China. (July 6, 2012).
- Zuo, Y. (Presenter & Author), Americas Conference on Information Systems (AMCIS), "Designing Security Requirements - a Flexible, Balanced, and Threshold-Based Approach," Association for Information Systems, Detroit, MI, USA. (August 6, 2011).
- Zuo, Y. (Presenter & Author), 4th IEEE International Conference on Computer Science and Information Technology (ICCSIT 2011), "Automatic Proof of Survivability Compliance - Approaches and Techniques," IEEE, Chengdu, Sichuan Province, China. (June 11, 2011).
- Zuo, Y. (Presenter Only), UND Graduate School 2011 Scholarly Forum, "A Framework for RFID-enabled Logistic Flow Tracing in Supply Chains," UND Graduate School, Grand Forks. (March 2011).
- Zuo, Y. (Presenter & Author), International Conference on Information Systems (ICIS), "A Holistic Approach for Specification of Security Requirements in Ubiquitous Computing," Association for Information Systems, St. Louis, MS, USA. (December 15, 2010).
- Hu, W.-C. (Presenter & Author), Zuo, Y. (Co-Author), Kaabouch, N. (Co-Author), Chen, L. (Co-Author), 2010 IEEE International Conference on Electro/Information Technology (EIT 2010), "An optimization neural network for smartphone data protection," Illinois State University, Normal, Illinois. (May 20, 2010).
- Zuo, Y., The 7th International Conference on Information Technology: New Generations, "Securely Querying Sensor Associated RFID Virtual Databases," Las Vegas, NV, USA. (March 2010).
- Zuo, Y. (Presenter Only), UND Graduate School 2010 Scholarly Forum, "Bent but not Broken: A Simulation Model for RFID Survivability," UND Graduate School, Grand Forks, ND. (March 9, 2010).
- Zuo, Y. (Presenter & Author), The 3rd ACM Conference on Wireless Network Security, "RFID Survivability Quantification and Attack Modeling." (February 2010).
- Zuo, Y. (Presenter & Author), The 43rd Hawaii International Conference on System Sciences (HICSS-43), "A Framework of Survivability Requirement Specification for Critical Information Systems," Sponsored by the University of Hawaii and Published by IEEE Computer Society, Kuai, HI. (January 6, 2010).
- Zuo, Y. (Presenter & Author), The 43rd Hawaii International Conference on Systems Sciences (HICSS-43), "Changing Hands Together: A Secure Group Ownership Transfer Protocol for RFID Tags," Sponsored by the University of Hawaii and Published by IEEE Computer Society, Kuai, HI. (January 6, 2010).
- Zuo, Y. (Presenter & Author), The 2009 IEEE International Conference on Intelligence and Security Informatics, "Unifying Strategies and Tactics: A Survivability Framework for Countering Cyber Attacks," IEEE, Dallas, TX, USA. (June 11, 2009).
- Hu, W.-C. (Presenter & Author), Zuo, Y. (Co-Author), Kaabouch, N. (Co-Author), Yang, H.-J. (Co-Author), International Workshop on the Role of Services, Ontologies, and Context in Mobile Environments (RoSOC-M '09), "Mobile data protection using handheld usage context matching," Mobile Data Management, Taipei, Taiwan. (May 19, 2009).

Zuo, Y. (Presenter & Author), The Sixth Wuhan International Conference on E-Business, "Network Viruses: Challenges and Threats to E-Business," China University of Geosciences, Alfred University, International Business Interface Inc., Wuhan, China. (May 26, 2007).

Zuo, Y. (Presenter & Author), The Second Secure Knowledge Management Workshop, "Owner-Controlled Information Privacy Protection Paradigm," National Science Foundation and the Polytechnic University, New York, NY. (September 28, 2006).

Zuo, Y. (Presenter & Author), The fifth Wuhan International Conference on E-business, "A Framework for Detection of Information Privacy Violations," China University of Geosciences, Alfred University, International Business Interface Inc., Wuhan, China. (May 29, 2006).

Zuo, Y. (Presenter & Author), The fifth Wuhan International Conference on E-business, "A Performance-based Reputation Model for Electronic Marketplaces," China University of Geosciences, Alfred University, International Business Interface Inc., Wuhan, China. (May 29, 2006).

Zuo, Y. (Presenter & Author), The International Federation for Information Processing TC-11 WG 11.1&11.5 Joint Working Conference on Security Management, Integrity, and Internal Control in Information Systems, "Trust-based Policy-oriented Decision Models and a Policy Language for Information Integrity in Open Systems," International Federation for Information Processing, Fairfax, Virginia. (December 2, 2005).

Zuo, Y. (Presenter & Author), The 20th Annual ACM Symposium on Applied Computing, "Component based Trust Management Within the Context of a Virtual Organization," Association of Computing Machinery (ACM), Santa Fe, New Mexico. (March 12, 2005).

Contracts, Grants and Sponsored Research

Contract

Zuo, Yanjun (Co-Principal), Hu, Wen-Chen (Principal), "Book: Handheld Computing for Mobile Commerce: Applications, Concepts and Technologies," Sponsored by IGI Global, Funded. (September 2008 - May 2010).

Grant

Zuo, Yanjun (Principal), Pu, Hui (Co-Principal), "Study on the Application of Industrial Internet of Things to Optimize Oil Wells' Production," Sponsored by NDEPScR STEM Research and Education - 2020, EPSCoR, \$10,000.00, Funded. (October 16, 2020 - May 31, 2021).

Lim, Yeo Howe, Zuo, Yanjun, "Composite Embankment Failure Modes and Fuzzy Detection Schemes," Sponsored by FY2019 Defense Established Program to Stimulate Competitive Research, Federal, \$583,000.00, Not Funded. (2019 - March 2020).

Zuo, Yanjun (Principal), "Security Property Specification and Verification," Sponsored by US Air Force Office of Scientific Research, Federal, \$372,596.00, Funded. (June 1, 2012 - May 31, 2016).

Zuo, Yanjun (Principal), "2015 UND CoBPA Summer Research Grant," Sponsored by College of Business and Public Administration, The University of North Dakota, \$7,000.00, Funded. (May 16, 2015 - August 15, 2015).

Zuo, Yanjun (Principal), "Proof-carrying Survivability," Sponsored by Air Force Office of Scientific Research, Federal, \$297,036.00, Funded. (February 1, 2009 - November 30, 2012).

Zuo, Yanjun (Principal), "Faculty Research Seed Money Award," Sponsored by The University of North Dakota, The University of North Dakota, \$32,185.00, Funded. (July 5, 2010 - May 31, 2012).

Zuo, Yanjun (Principal), "Travel Grant," Sponsored by UND Senate Scholarly Activities Committee, The University of North Dakota, \$483.20, Funded. (March 2010).

Zuo, Yanjun, "Travel Grant," Sponsored by Senate Scholarly Activities Committee, The University of North Dakota, \$373.20, Funded. (June 7, 2009 - June 11, 2009).

Zuo, Yanjun (Principal), "Information flow based damage assessment for critical information system survivability," Sponsored by University of North Dakota, The University of North Dakota, \$10,000.00, Funded. (July 16, 2008 - May 15, 2009).

Zuo, Yanjun (Principal), "Survivability Strategies and Techniques for Mission Critical Information Systems," Sponsored by University of North Dakota Faculty Research Seed Money Council, The University of North Dakota, \$8,500.00, Funded. (August 1, 2007 - May 15, 2008).

Zuo, Yanjun, "Travel Grant," Sponsored by University of North Dakota Senate Scholarly Activities Committee and Office of VP for Research, The University of North Dakota, \$440.00, Funded. (October 20, 2007 - October 23, 2007).

Zuo, Yanjun, "Travel Grant," Sponsored by University of North Dakota Senate Scholarly Activities Committee, The University of North Dakota, \$677.00, Funded. (September 26, 2006 - September 29, 2006).

Zuo, Yanjun, "Travel Grant," Sponsored by Presenting a paper in the Second Secure Knowledge Management Workshop, The University of North Dakota, \$400.00, Funded. (May 29, 2006 - June 1, 2006).

Zuo, Yanjun, "Travel Grant," Sponsored by University of North Dakota Senate Scholarly Activities Committee, The University of North Dakota, \$566.00, Funded. (November 30, 2005 - December 3, 2005).

Sponsored Research

Zuo, Yanjun, "Big Data and Big Risk – When Security and Privacy Meet Usability," Sponsored by NCoBPA 2019 Summer Research Grant, Local, \$5,000.00, Funded. (May 2019 - October 2019).

Zuo, Yanjun, "2012 Summer Graduate Research Professorship," Sponsored by Graduate School, The University of North Dakota, \$7,000.00, Funded. (May 2012 - August 2012).

Zuo, Yanjun (Principal), "2010 Summer Graduate Research Professorship," Sponsored by Graduate School, University of North Dakota, The University of North Dakota, \$7,000.00, Funded. (May 2010 - August 2010).

Zuo, Yanjun (Principal), "Towards a Framework for Resilient RFID Systems," Sponsored by College of Business and Public Administration, Local, \$2,500.00, Funded. (May 16, 2009 - May 15, 2010).

Zuo, Yanjun (Principal), "Business Continuity Planning: Building Survivable Information Systems," Sponsored by College of Business and Public Administration 2008 Summer Research Grants, The University of North Dakota, \$2,500.00, Funded. (May 16, 2008 - May 15, 2009).

Zuo, Yanjun (Principal), "An Effective Business Continuity Plan: Its Components and Development Challenges," Sponsored by College of Business and Public Administration, The University of North Dakota, \$2,500.00, Funded. (May 16, 2007 - May 15, 2008).

Research Currently in Progress

"A blockchain-based framework for supply chain traceability".

"IT auditing and governance - a business perspective".

This research studies how business professionals need to know about IT auditing and governance as well as how IT infrastructure and techniques help business professionals to improve their work efficiency. The studies include the framework, guidelines, process, procedures, and techniques to implement IT auditing and governance.

SERVICE

Editorial and Review Activities

Invited Manuscript Reviewer, "Influential nodes selection to enhance data dissemination in mobile social networks: a survey," Journal of Network and Computer Applications, 1 review. (January 28, 2020 - April 2, 2020).

Swiss National Science Foundation, 1 review. (September 2019 - November 2019).

Invited Manuscript Reviewer, "IEEE Transactions on Secure and Dependable Computing," 1 review. (August 2019 - September 2019).

Invited Manuscript Reviewer, "Journal of Engineering, Design and Technology," 1 review. (June 2018 - August 2018).

Invited Manuscript Reviewer, "International Journal of Information Management," 1 review. (February 2018 - August 2018).

Ad Hoc Reviewer, Papers, "The 10th IEEE International Workshop on Computer Forensics in Software Engineering," The 42nd IEEE International Conference on Computers, Software & Applications. (April 2018 - July 2018).

Invited Manuscript Reviewer, "IEEE Transactions on Dependable and Secure Computing," 1 review. (March 2018 - June 2018).

Invited Manuscript Reviewer, "ACM Symposium on Applied Computing," Association for Computing Machinery, 50 reviews. (October 2005 - 2017).

"National Science Foundation Secure and Trustworthy Cyberspace Education Designation Proposal Review," National Science Foundation, 8 reviews. (February 2017 - March 2017).

Ad Hoc Reviewer, Papers, "The 8th IEEE International Workshop on Computer Forensics in Software Engineering," COMPSAC 2016: The 40th IEEE Computer Society International Conference on Computers, Software & Applications, 1 review. (March 2016).

Ad Hoc Reviewer, Papers, "7th IEEE International Workshop on Computer Forensics in Software Engineering," COMPSAC 2015: The 39th Annual International Computers, Software & Applications Conference, 2 reviews. (March 2015 - April 2015).

Invited Manuscript Reviewer, "International Journal of Software Engineering and Knowledge Engineering," 2 reviews. (October 2013 - February 2014).

Ad Hoc Reviewer, Papers, "4th Augmented Human International Conference," 4 reviews. (January 2013 - February 1, 2013).

Invited Manuscript Reviewer, "Journal of Network and Computer Applications," Elsevier, 1 review. (August 21, 2012 - October 10, 2012).

Ad Hoc Reviewer, Papers, "International Conference on Information Systems (ICIS)," AIS, 1 review. (May 18, 2012 - June 14, 2012).

Invited Manuscript Reviewer, "Decision Support Systems (Journal)," Elsevier, 1 review. (April 24, 2012 - June 8, 2012).

Invited Manuscript Reviewer, "Journal of Artificial Societies and Social Simulation," SimSoc Consortium, 1 review. (February 12, 2012 - April 2012).

Ad Hoc Reviewer, Papers, "18th Americas Conference on Information Systems (AMCIS)," AIS, 1 review. (March 8, 2012 - March 26, 2012).

Editorial Board Member, "IEEE International Conference on RFID," 9 reviews. (October 2010 - February 2012).

Invited Manuscript Reviewer, Swiss National Science Foundation, 1 review. (November 2011 - December 2011).

Invited Manuscript Reviewer, Communications of AIS, 2 reviews. (October 2011 - December 2011).

Invited Manuscript Reviewer, US Air Force Office of Scientific Research, 2 reviews. (2010 - 2011).

Invited Manuscript Reviewer, "Wuhan International Conferences on E-business," 25 reviews. (January 2006 - May 2011).

Ad Hoc Reviewer, Papers, "17th Americas Conference on Information Systems," Association of Information Systems (AIS), 2 reviews. (March 2011 - April 2011).

Associate Editor, "Handheld Computing for Mobile Commerce: Applications, Concepts and Technologies," IGI Global. (September 2008 - 2010).

Invited Manuscript Reviewer, Security and Communication Networks, 1 review. (July 2010 - September 2010).

Ad Hoc Reviewer, Papers, "The 9th International Conference on Information Technology," 2 reviews. (October 2006 - November 2006).

Invited Manuscript Reviewer, "Journal of Electronic Markets," 1 review. (September 2006 - November 2006).

Invited Manuscript Reviewer, "Journal of Simulations and Modeling," 1 review. (January 2006 - October 2006).

General Service

College

Committee Member, NCoBPA Grievance Pool. (August 2019 - May 2020).

Task Force Member, CoBPA Data Analytics Major and Minor Task Force, Member. (October 2018 - May 2019).

Committee Member, CoBPA Grievance Committee. (August 2018 - May 2019).

Attendee, Meeting, CoBPA Grievance Pool, Member. (August 2016 - May 2018).

Committee Member, CoBPA Data analytics minor task force, Member. (October 2017 - January 2018).

Attendee, Meeting, CoBPA International Committee, Member. (November 2016 - 2017).

Attendee, Meeting, CoBPA MBA Faculty Committee. (January 2016 - October 2016).

Committee Member, CoBPA MBA Governing Board, Member. (August 2014 - May 2015).

Committee Member, CoBPA Graduate Programs Committee, Member. (August 2012 - December 2013).

CoBPA Promotion, Grant and Scholarship Committee, Member. (August 2010 - May 2012).

Ambassador, Ambassador of the ISBE to COBPA at UND. (August 15, 2005 - May 2011).

Committee Member, CoBPA College Assessment Committee. (August 16, 2008 - May 2010).

Chairperson, Faculty Research Seed Money Professional Sub-Committee. (January 2009 - April 2009).

Vice Chairperson, CoBPA College Curriculum Committee. (August 16, 2006 - May 15, 2008).

Department

Attendee, Meeting, Department of Accountancy Information Systems AoL Activities and Written Communication Assessment. (2019 - 2020).

Attendee, Meeting, Department of Accountancy Information Systems Curriculum and AoL Activities. (2018 - 2019).

Committee Member, CoBPA School of Entrepreneurship Faculty Performance Evaluation Sub-committee, Member. (February 2017 - March 2017).

Committee Member, ISBC Marketing and Promotion Sub-committee, Member. (August 2014 - 2015).

Committee Member, ISBE Department Curriculum Committee. (January 2011 - May 2013).

Student Org Advisor (Professional Org), Association of Information Technology Professional, UND Chapter, Faculty advisor. (September 2006 - May 15, 2007).

Other

Committee Member, Ph.D student dissertation committee, University of Geneva, Switzerland. (August 2012 - December 2013).

Professional

Associate Editor, International Journal of hand-held Computing Research. (November 1, 2008 - 2018).

Committee Member, 10th IEEE International Workshop on Computer Forensics in Software Engineering. (February 2018 - July 2018).

Committee Member, 8th IEEE International Workshop on Computer Forensics in Software Engineering. (January 2016 - May 2016).

Committee Member, Ph.D. student dissertation committee, University of Geneva, Member. (September 2014 - March 2015).

Reviewer, 30th ACM Symposium on Applied Computing. (September 2014 - November 2014).

Committee Member, 6th IEEE International Workshop on Computer Forensics in Software Engineering. (January 2014 - May 2014).

Reviewer, The tenth Wuhan International Conference on e-Business. (January 2011 - May 2011).

Reviewer, The 26th Symposium on Applied Computing. (September 2010 - December 2010).

Reviewer, The ninth Wuhan International Conference on e-Business. (January 2010 - May 2010).

Committee Member, The First Augmented Human International Conference, Member. (February 2010 - March 2010).

Reviewer, The 25th Symposium on Applied Computing/ACM. (October 2009 - January 2010).

Chair, Computer Security Track, The Sixth International Conference on Information Technology. (January 2009 - December 2009).

Committee Member, The 8th Wuhan International Conference on E-commerce. (January 1, 2009 - May 15, 2009).

Committee Member, The 24nd ACM Symposium on Applied Computing, Computer Forensics Track. (September 15, 2008 - January 30, 2009).

Committee Member, International Conference on Complex, Intelligent and Software Intensive Systems, Track of Ontologies, Semantic Web, and Web Services. (August 16, 2008 - December 1, 2008).

Committee Member, The Seventh Wuhan International Conference on E-commerce. (January 1, 2008 - May 31, 2008).

Committee Member, The 23nd ACM Symposium on Applied Computing, Computer Forensics Track. (September 15, 2007 - January 30, 2008).

Session Chair, The Sixth Wuhan International Conference on E-business. (January 1, 2007 - May 27, 2007).

Committee Member, The 22nd ACM Symposium on Applied Computing, Trust, Recommendations, Evidence and other Collaboration Know-how (TRECK) Track, Member. (September 15, 2006 - March 30, 2007).

Committee Member, The 22nd ACM Symposium on Applied Computing, Computer Forensics Track. (September 15, 2006 - January 30, 2007).

Committee Member, The Fifth Wuhan International Conference on E-commerce. (January 1, 2006 - May 31, 2006).

Committee Member, The 21nd ACM Symposium on Applied Computing, Trust, Recommendations, Evidence and other Collaboration Know-how (TRECK) Track. (September 15, 2005 - January 30, 2006).

The University of North Dakota

Data Fellow, UND Data Institute, Member. (June 2019 - May 2020).

Committee Member, Ph.D. student dissertation committee. (November 2017 - December 2018).

Committee Member, Ph.D. student dissertation committee. (March 2015 - November 2015).

Committee Member, UND Faculty Research Seed Money Committee. (September 2011 - May 2012).

Committee Member, UND Faculty Research Seed Money Committee. (October 2010 - December 2010).

Committee Member, UND Faculty Research Seed Money Committee. (January 2009 - April 2009).