Dr. JAE J. CHOI

Pittsburg State University
Kelce Undergraduate School of Business
Email: jchoi@pittstate.edu

Education

Ph D, University of Wisconsin, Milwaukee, WI
   Major: Management Information Systems
   Supporting Areas of Emphasis: Operation Management
   Dissertation Title: Three Research Essays On Business-Driven Strategy For Service-Oriented Architecture Implementation

MBA, Loyola University Chicago, IL
   Major: Information Systems

MS, Loyola University Chicago, IL
   Major: Computer Science

BBA, Yonsei University, Seoul, South Korea
   Major: Business Administration

Academic, Government, Military and Professional Positions

Academic - Post-Secondary

Professor of Data Science and Information Systems, Pittsburg State University. (August 2024 - Present).

Professor of Computer Information Systems, Pittsburg State University. (August 2022 – May 2024).

Associate Professor of Computer Information Systems, Pittsburg State University. (August 2017 - May 2022).

Assistant Professor of Accounting & Computer Information Systems, Pittsburg State University, Department of Accounting & Computer Information Systems. (2012 - 2013).

Assistant Professor of Computer Information Systems, Alabama State University. (2011 - 2012).

Licensures and Certifications

Trainer Skills: SAP Artificial Intelligence, SAP. (February 2024 - Present).

SAP Artificial Intelligence, SAP. (June 2022 - Present).

Intro to Data Analysis With SAP Analytics Cloud, SAP. (January 2022 - Present).

NASBITE Certified Global Business Professional. (2012 - Present).

Online teaching Certification, Alabama State University. (2011 - Present).

CompTIA Security+. (2011 - 2014).

Professional Memberships

Senior Member, Association for Information Systems. (2008 - Present).

Development Activities Attended

Workshop, "Enterprise Artificial Intelligence with SAP," SAP. (June 2024).

Workshop, "SAP Cloud Learning 2024: Artificial Intelligence," SAP. (January 2024).

Workshop, "SAP Cloud Learning 2024: Cloud Analytics." (January 2024).

Workshop, "SAP Faculty Boot camps." (June 1, 2023 - June 26, 2023).

Workshop, "SAP Faculty Boot camps." (January 1, 2022 - January 20, 2022).

Workshop, "Leadership PSU," Pittsburg State University. (September 2020 - 2021).

Conference Attendance, "19th Workshop on e-Business, Virtual Conference,," Association for Information Systems. (December 12, 2020 - December 2020).

Workshop, "SAP Faculty Boot Camps," SAP. (July 2020).

Conference Attendance, "SAP Sapphire Now," SAP, USA. (June 2020).

Workshop, "SAP Faculty Boot Camps." (July 2019).

Workshop, "Practice the Pathway." (April 2019).

Workshop, "SAP Faculty Boot Camps." (July 2018).

Workshop, "SAP Summer Workshop," SAP, University of Wisconsin, Milwaukee, Milwaukee, WI, U.S.A. (July 17, 2017 - July 20, 2017).

Conference Attendance, "Minitrack and Session Chair," Americas Conference on Information Systems, Chicago, IL. (August 2013).

Conference Attendance, "18th Americas Conference on Information Systems," Association for Information System, Seattle, WA, USA. (August 2012).

Conference Attendance, "2011 International Conference on Industrial Engineering and Operations Management," INFORMS, Kuala Lumpur, Malaysia. (2011).

TEACHING

Teaching Experience

Pittsburg State University
CIS 130, COMPUTER INFORMATION SYSTEMS, 1 course.
CIS 250, PRINCIPLES OF SOFTWARE DESIGN, 1 course.
CIS 345, OBJ ORINTD PROGRAMNG USNG JAVA, 6 courses.
CIS 350, INTRO TO SYSTEM ADMINISTRATION, 1 course.
CIS 380, SYSTEMS ANALYSIS AND DESIGN, 11 courses.

CIS 420, MANAGEMENT INFORMATION SYSTEMS, 36 courses.
CIS 470, NETWORK & INFORMATION SECURITY, 6 courses.
CIS 640, SOFTWARE ENGINEERING, 5 courses.
CIS 670, INF ASSURNC & COMPUTR SECUR I, 6 courses.
CIS 671, INF ASSURNCE & COMPTR SECUR II, 7 courses.
CIS 720, MANAGEMENT INFORMATION SYSTEMS, 1 course.
CIS 801, 'TP:SPECIAL PROJECTS', 1 course.

Non-Credit Instruction

Adjunct Faculty for sister university (Wichita State University), Wichita State University, 60 participants. (August 2021 - December 2021).

RESEARCH

Published Intellectual Contributions

Book Chapters

Choi, J., Nazareth, D. L., Ngo-Ye, T. (2021). The Mechanics of the Gig Economy: A System Dynamics Approach. In Garimella, A., Karhade, P., Kathuria, A., Liu, X., Xu, J., Zhao, K. (Ed.), *The Role of e-Business during the Time of Grand Challenges* (vol. 418, pp. 59-66). Berlin/Heidelberg: Lecture Notes in Business Information Processing by Springer Science Book.

Refereed Journal Articles

Ngo-Ye, T., Choi, J. J. (2024). Practical use cases of generative AI in teaching and academic professional work: an exploratory study. *Issues in Information Systems, 25*(1), 434-449.

Nazareth, D. L., Choi, J. J., Ye, T. N. (2024). Investing in Security-as-a-Service for E-Commerce Infrastructure by Small and Medium Enterprises: A Monte Carlo Approach. *Journal of Systems & Information Technology, 26*(2), 257-275. https://doi.org/10.1108/JSIT-04-2023-0071

Ngo-Ye, T., Choi, J. J., Strong, D. D. (2022). Knowledge and Insights Collected through Engaging in Social and Professional Events for Sharing with Students. *Issues in Information Systems, 23*(2), 255-269.

Nazareth, D. L., Choi, J. J., Ngo-Ye, T. (2022). The Security as a Service for Small and Medium Enterprises. *Journal of Computer Information Systems, 62*(5), 954-964.

Ngo-Ye, T., Choi, J. J. (2021). Proactively seeking new knowledge in social encounters for teaching. *Issues in Information Systems, 22*(2), 260-275.

Ngo-Ye, T., Choi, J. J. (2021). Qualification requirements for entry-level IT positions and IS curriculum: a literature review. *Issues in Information Systems, 22*(3), 39-51.

Nazareth, D. L., Choi, J. J. (2021). Market Share Strategies for Cloud Computing Providers. *Journal of Computer Information Systems, 61*(2), 182-192.

Ngo-Ye, T., Choi, J. J., Gittens, D. (2020). Preparing Teaching Swift Programming and Actual Classroom Teaching. *Issues in Information Systems, 21*(4), 295-395.

Nazareth, D. L., Ngo-Ye, T., Choi, J. J. (2020). Trust in Security as a Service: A Theoretical Model. *Issues in Information Systems, 21*(2), 64-74.

Ngo-Ye, T., Choi, J. J. (2019). Developing an E-Commerce Database Web Application for University Sport Concession Event: A Teaching Case. *Issues in Information Systems, 20*(2), 151-161.

Choi, J. J., Ngo-Ye, T. (2019). Selecting Enterprise Applications for Curriculum: Insights from a Teaching Initiative. *Issues in Information Systems, 20*(1), 195-203.

Ngo-Ye, T., Choi, J. J., Gittens, D. (2018). Helping Students to Prepare Microsoft Office Specialist Certification Exams. *Issues in Information Systems, 19*(4), 122-131.

Ngo-Ye, T., Choi, J. J., Cummings, M. L. (2018). Modeling the Robo-Advisor Ecosystem: Insights from a Simulation Study. *Issues in Information Systems, 19*(1), 128-138.

Choi, J. J., Nazareth, D. L., Ngo-Ye, T. L. (2018). The Effect of Innovation Characteristics on Cloud Computing Diffusion. *Journal of Computer Information Systems, 58*(4), 325-333.

Ngo-Ye, T., Nazareth, D. L., Choi, J. J. (2017). Trust in Cloud Computing: Maintaining Long-Term Relationships. *Journal of Information Technology Management, 28*(3), 25-38.

Choi, J. J., Cummings, M. L. (2016). Outcome-based contract model for IT outsourcing: A System Dynamics Approach. *Issues in Information Systems, 17*(2), 93-104.

Ngo-Ye, T. L., Choi, J. J. (2016). Preparing Students for Security Certification: An Exploratory Experiment. *Issues In Information Systems, 17*(III), 59-69.

Ngo-Ye, T., Choi, J. J. (2015). Revisit Challenges for Teaching Computer Literacy: A Case of Using an Online Simulation Tool. *Issues in Information Systems, 16*(2), 226-235.

Nazareth, D. L., Choi, J. J. (2015). A System Dynamics Model for Information Security Management. *Information and Management, 52*(1), 123-134.

Ngo-Ye, T., Choi, J. J. (2014). Pre and Post Class Case Discussion: Engaging Business Students in Learning Management Information Systems. *Issues in Information Systems, 15*(2), 367-374.

Choi, J. J., Nazareth, D. L. (2014). Repairing Trust in an e-Commerce and Security Context: An Agent-Based Modeling Approach. *Information Management and Computer Security*.

Ngo-Ye, T., Choi, J. J. (2013). Novice User's Trust on Innovative Technology: A Theoretical Analysis in the Context of Data Mining. *International Journal of Intelligent Information Processing, 4*(2), 34-44.

Choi, J. J., Nazareth, D. L., Jain, H. K. (2013). The Impact of SOA Implementation on IT-Business Alignment: A System Dynamics Approach. *ACM Transactions on Management Information Systems, 4*(1), 3:1-3:22.

Choi, J. J., Nazareth, D. L., Jain, H. K. (2012). Information Technology Skills Management Strategies for Implementing New Technologies in Organizations: A Case of Service Oriented Architecture. *IEEE Transactions on Systems, Man, and Cybernetics--Part A: Systems and Humans, 42*(4), 838-853.

Agarwal, R., Choi, J. J., Ramamurthy, K., Selen, W., Hassan, M. S. (2012). Service-Oriented Architecture as a driver of Service Innovation in newly emerging Service Systems: An

exploratory view. *International Journal of Information Processing and Management, 3*(2), 85-97.

Choi, J. J., Nazareth, D. L., Jain, H. K. (2010). Implementing Service-Oriented Architecture in Organizations. *Journal of Management Information Systems, 26*(4), 253-286.

Conference Proceedings

Ngo-Ye, T., Choi, J. J. (2019). *Moving Linux, Apache 2, MySQL, and PHP Server into Cloud: A Case of Teaching Setting up and Running Amazon Web Services*.

Lee, S., Choi, J. J., Ngo-Ye, T., Cummings, M. L. (2018). *Modeling Trust in the Adoption Decision Process of Robo-Advisors: An Agent-Based Simulation Approach*. Midwest Association of Information Systems.

Ngo-Ye, T., Choi, J. J. (2018). *Teaching Students Mainframe Skills for the Niche Market: An Exploratory Proposal*. the Southern Association for Information Systems Conference.

Nazareth, D. L., Choi, J. J. (2017). *Capacity Management for Cloud Computing: A System Dynamics Approach*. Association for Information Systems: Americas Conference on Information Systems (AMCIS).

Ngo-Ye, T., Choi, J. J. (2017). *Cloud Computing: Another Disruptive IT Innovation?*. The 48th Annual Meeting of Southwest Decision Sciences Institute.

Choi, J. J., Cummings, M. L. (2015). *A System Dynamics Model for IT Outsourcing Contracting Strategies*. Midwest Association for Information Systems.

Ngo-Ye, T., Choi, J. J. (2015). *Buyer's Product Domain Knowledge and E-Commerce*. International Academy of Business and Public Administration Disciplines.

Choi, J. J., Ngo-Ye, T. (2014). *The Global Digital Divide, The Other Way Around?*. International Academy of Business and Public Administration Disciplines.

Nazareth, D. L., Choi, J. J. (2012). *Information Security Management: A system dynamics view* (3rd ed.). Seattle, WA: Proceedings of 18th Americas Conference on Information Systems. http://aisel.aisnet.org/amcis2012/proceedings/ISSecurity/3

Ngo-Ye, T., Choi, J. J. (2012). *Novice User's Trust of Data Mining Technology* (65th ed.). Seattle, WA: Proceedings of 18th Americas Conference on Information Systems. http://aisel.aisnet.org/amcis2012/proceedings/Posters/65

Agarwal, R., Choi, J. J., Ramamurthy, K., Selen, W., Hassan, M. S. (2011). *How can Service-Oriented Architecture drive Service Innovation in newly emerging Service Systems?*. Jeju: Proceedings of the 7th International Conference on Advanced Information Management and Service (IEEE sponsored).

Choi, J. J., Ramamurthy, K. (2011). *Service-Oriented Architecture and IT-Business Alignment* (pp. 480-485). Kuala Lumpur: Proceedings of the 2011 International Conference on Industrial Engineering and Operations Management (INFORMS sponsored).

Choi, J. J., Jain, H. K. (2010). *What makes your Information Systems agile?: A Business-Driven Model for Agility Providers* (pp. 43-50). Saint Louis: Proceedings of the 2010 Workshop on E-Business (Pre-ICIS Workshop).

Choi, J. J., Nazareth, D. L., Jain, H. K. (2010). *The Impact of SOA Implementation Strategies on Business Value and Agility: A Systems Dynamics Approach*. Seoul: Proceedings of the 6th International Conference on Advanced Information Management and Service (IEEE sponsored).

Other

Choi, J. J., Casey, R. J. (2012). *Computer tech jobs outpace applicant forecasts* (16th ed., vol. 7, pp. 6-28). Joplin Tri-State Business Journal.

Presentations Given

Choi, J. J., Nazareth, D. L., Ngo-Ye, T., 19th Workshop on e-Business, "The Mechanics of the Gig Economy: A System Dynamics Approach," Association for Information Systems. (December 12, 2020).

Nazareth, D. L., Choi, J. J., Americas Conference on Information Systems (AMCIS), "Capacity Management for Cloud Computing: A System Dynamics Approach," Boston, MA. (August 2017).

Choi, J. J., IACIS, "Pre and Post Class Cae Discussion: Engaging Business Students in Learning Managment Information Systems," Las Vegas. (October 1, 2014).

Choi, J. J. (Author & Presenter), Ngo-Ye, T. (Author), International Academy of Business and Public Administration Disciplines, "The Global Digital Divide, The Other Way Around?," Dallas, TX. (April 2014).

Choi, J. J. (Author & Presenter), Ramamurthy, K. (Author), The 2011 International Conference on Industrial Engineering and Operations Management, "'Service-Oriented Architecture and IT-Business Alignment'," INFORMS, Kuala Lumpur, Malaysia. (January 2011).

Choi, J. J. (Author & Presenter), Nazareth, D. L. (Author), Jain, H. K. (Author), The 6th International Conference on Advanced Information Management and Service, "'The Impact of SOA Implementation Strategies on Business Value and Agility: A Systems Dynamics Approach'," IEEE, Seoul, South Korea. (November 2010).

Choi, J. J. (Author & Presenter), MARC Research Seminar Series, "'Implementing Service-Oriented Architecture in Organizations'," College of Business Administration, METU, Ankara, Turkey. (January 2009).

Contracts, Grants and Sponsored Research

Grant

Choi, J. J., "Youngman Summer Research Grant," Sponsored by Pittsburg State University. (2013 - Present).

Choi, J. J. (Principal), "Alabama State University Research Grant," Sponsored by Alabama State University, Other. (2012).

Choi, J. J. (Principal), "METU NCC Campus Research Grant," Sponsored by Middle East Technical University, Other. (2010 - 2011).

Awards and Honors

Kelce Excellence in Research Award, Kelce College of Business. (2022).

Kelce Excellence in Research Award, Kelce College of Business. (2019).

Kelce Excellence in Research Award, Kelce College of Business. (2016).

Kelce Excellence in Research Award, Kelce College of Business. (2015).

Current Research

'"A Business Value framework of Service-Oriented Architecture: A perspective from Information Systems Agility"' (On-Going).

'"Changing roles of C-level and mid-level business managers due to IT embeddedness"' (On-Going).

'"Developing IT Staffing Strategy Decision Support System: An Agent-Based Simulation Approach"' (On-Going).

'"Game theoretic business value analysis of Cloud computing market: An Agent-Based Simulation Approach"' (On-Going).

'"Security Management Strategies: A System Dynamics Approach"' (On-Going).

'"What makes your Information Systems agile: A Business-Driven Model for Agility Providers"' (On-Going).

SERVICE

Department Service

Committee Member, CIS curriculum Committee. (August 2012 - Present).

Committee Member, CIS Faculty Search Committee. (October 2021 - 2022).

Committee Member, CIS Faculty Search Committee. (December 2018 - April 2020).

Committee Member, ACIS Faculty Search Committee. (January 2015 - May 2015).

Committee Member, ACIS Chair Search Committee. (April 2013 - September 2013).

College Service

Committee Member, Undergraduate Curriculum Management and Assurance of Learning Committee. (August 2020 - Present).

SAP UA Faculty Coordinator. (January 2019 - Present).

Committee Member, Promotion and Tenure. (August 2024 - May 2024).

Committee Member, Faculty Development. (August 2019 - May 2020).

Committee Member, College Curriculum Committee. (January 2019 - May 2019).

Committee Member, MBA Program Advisory Council. (September 2016 - May 2018).

Alternate, Undergraduate Curriculum Committee. (September 2013 - May 2016).

Committee Member, College Strategic Planning Committee. (January 2013 - May 2016).

University Service

Committee Member, University Professor Committee. (August 2024 - Present).

Committee Member, Higher Learning Commission. (March 2024 - Present).

Committee Member, Institutional Review Board. (August 2022 - Present).

Committee Member, Program Review Committee. (August 2022 - May 2024).

Committee Member, Information Technology Council. (August 2020 - May 2022).

Committee Member, Council for Discovery and Research. (September 2016 - May 2019).

Committee Member, Faculty Senate Information Systems Committee. (August 2012 - May 2017).

Committee Member, Joint Task Force on Computer Curriculum. (March 8, 2017 - May 30, 2017).

Committee Member, Council for Discovery and Research. (September 2014 - April 2015).

Professional Service

Editorial Review Board Member, Journal of Computer Information Systems. (2024 - Present).

Reviewer, Journal Article, ACM Transactions on Management Information Systems. (June 2017 - Present).

Reviewer, Journal Article, IEEE Transactions on Services Computing. (October 2016 - Present).

Reviewer, Conference Paper, International Association for Computer Information Systems. (2024).

Reviewer, Journal Article, Journal of Organizational Computing and Electronic Commerce, 2023. (December 2023 - July 2024).

External Tenure Reviewer, University of Toledo. (2021 - 2022).

Reviewer, Conference Paper, International Conference on Information Systems (ICIS). (May 2022 - June 2022).

Reviewer, Conference Paper, International Conference on Information Systems (ICIS), Austin, TX. (June 2021 - December 2021).

Reviewer, Conference Paper, 29th European Conference on Information System. (December 2020 - June 2021).

Reviewer, Conference Paper, International Conference on Information Systems (ICIS). (June 2020 - December 2020).

Reviewer, Journal Article, Information & Management. (April 18, 2018 - December 2018).

Reviewer, Journal Article, Bogazici Journal: Review of Social, Economic and Administrative Studies (Bosphorus University), Bosphorus. (September 2018).

Committee Member, International Conference on Design Science Research in Information Systems and Technology. (June 2016 - June 2017).

Committee Member, International Association for Computer Information Systems. (2015 - 2016).

Committee Member, Internationals Conference on Design Science Research in Information Systems and Teachnology. (2015 - 2016).

Reviewer, Journal Article, Information and Management. (May 19, 2016 - June 2016).

Reviewer, Journal Article, Information and Management. (September 2015 - October 2015).

Reviewer, Journal Article, European Journal of Information Systems. (August 2015 - September 2015).

Reviewer, Journal Article, The American Economist, Pittsburg, KS. (May 2015).

Reviewer, Conference Paper, MIdwest Association for Information Systems. (March 2015).

Reviewer, Journal Article, Information Systems Frontier. (January 2015 - February 2015).

Reviewer, Journal Article, Information Systems Frontier. (May 2014 - June 2014).

Reviewer, Conference Paper, AMCIS, Savannah, GA. (March 2014 - April 2014).

Reviewer, Conference Paper, PACIS, Chengdu. (March 2014 - April 2014).

Track Organizer, 19th Americas Conference on Information Systems. (2013).

Reviewer, Conference Paper, 18th Americas Conference on Information Systems. (2012).

Committee Member, 7th Annual Midwest Association for Information Systems, Green Bay, WI. (2012).

Reviewer, Conference Paper, International Conference on Information Systems (ICIS). (2012).

Committee Member, 5th International Conference on Design Science Research in Information Systems and Technology. (2011).

Reviewer, Journal Article, Information Systems Frontiers Journal. (2011).

Reviewer, Conference Paper, International Conference on Industrial Engineering and Operations Management (INFORMS sponsored). (2011).

Reviewer, Conference Paper, 16th Americas Conference on Information Systems. (2010).

Invited Referee, Journal of Management Information Systems. (2010).