KARTHIKEYAN UMAPATHY

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EDUCATION

- ***Ph.D. Information Sciences and Technology*** (May 2008), Pennsylvania State University, University Park, PA
- ***M.S. Industrial Engineering*** (May 2003), Pennsylvania State University, University Park, PA
- ***B.E. Mechanical Engineering*** (May 1998), PSG College of Technology, Coimbatore, India

EXPERIENCE

- ***Co-Director*** for Florida Data Science for Social Good (FL-DSSG), since 2016
- ***Associate Professor***, School of Computing, University of North Florida (From Aug 2013 onwards)
- ***Assistant Professor***, School of Computing, University of North Florida (Jan 2008 – Aug 2013)
- ***Visiting Instructor***, School of Computing, University of North Florida (Aug 2007 – Jan 2008)
- ***Graduate Research/ Teaching Assistant***, Penn State University (Aug 2000 – Aug 2007)
- ***Production Planning Engineer***, ELGI ELECTRIC & Industries Ltd., Coimbatore, India (June 1998 – Dec 1999)

GRANTS AND CONTRACTS – TOTAL: $364,068

Grants and Sponsorships ($342,218)

13. **Umapathy, K.,** and Richard, D. (PIs). 2023. FL-DSSG 2023 Summer Internship Sponsorship. Funded by the NLP Logix, Jacksonville Jaguars Foundation, Florida Philanthropic Network, Cathedral Arts Project, PGA Tour, Leanovation Lab, MarketOne, ADVOS Legal, Miller Electric, iVenture, and HC Brands. Total awarded amount: $29,000.

12. Wang, D., Richard, D., Jiang, A., Buzaianu, E., **Umapathy, K.,** and Ramin, S.A. (PIs). 2022. Driving Simulator for Transportation Safety and Innovation Research. Funded by the UNF Shared RSCA Instrumentation Grant. Total awarded amount: $118,335.

11. **Umapathy, K.,** and Richard, D. (PIs). 2022. FL-DSSG 2022 Big Reveal Event Sponsorship. Funded by the NLP Logix. Total awarded amount: $2,000.

10. **Umapathy, K.** (PI). 2020. Training Data Scientists While Building Capacity for Nonprofits. Funded by the FIS Distinguished Professorship in CIS Award, School of Computing, University of North Florida. Total awarded amount: $36,000.

9. **Umapathy, K.,** and Richard, D. (PIs). 2020. Building Decision Science Capacity for Community Organizations. Funded by the Jaguar Foundation. Total awarded amount: $5,000. Website: http://dssg.unf.edu/.

8. **Umapathy, K.,** and Richard, D. (PIs). 2019. Preparing Data Scientists with a Social Conscience. Funded by the University of North Florida Foundation. Total awarded amount: $25,000. Website: http://dssg.unf.edu/

7. **Umapathy, K.** (PI). 2018. Benchmarking Use of Data Analytics in the Nonprofit Sector (Analytics-in-Nonprofits). Funded by the FIS Distinguished Professorship in CIS Award, School of Computing, University of North Florida. Total awarded amount: $36,000.

6. **Umapathy, K.,** and Richard, D. (PIs). 2018. FL-DSSG 2018 Big Reveal Event Sponsorship. Funded by the Agile Thought. Total awarded amount: $2,000. Website: http://dssg.unf.edu/

5. **Umapathy, K.,** and Richard, D. (PIs). 2018. FL-DSSG 2018 Summer Internship. Funded by the University of North Florida. Total awarded amount: $23,000. Website: http://dssg.unf.edu/

4. **Umapathy, K.,** and Richard, D. (PIs). 2017. Establishing Florida Data Science for Social Good (FL-DSSG) Program. Funded by the Nonprofit Center of Northeast Florida. Total awarded amount: $20,000. Website: http://dssg.unf.edu/

3. **Umapathy, K.,** and Chuan, Ching-Hua (PIs). 2013. Web Technology Development for Community Organizations. 2013 UNF Transformational Learning Opportunities (TLO) Award. Awarded amount: $5,000 (Requested amount: $10,000).

2. Miller, B. (PI-US Team, GSU), **Umapathy, K.** (Co-PI, UNF), Xiao, Lu (PI-Canada Team, UWO, Canada), Pullman, G. (Co-PI, GSU), and Karmakar, S. (Co-PI, GSU). 2012. Digging into Human Rights Violations: Anaphora Resolution and Emergent Witnesses. 2012 Digging into Data Challenge. Total awarded amount: $235,000. US Team is funded by National Science Foundation #1209172. US Team Award: $175,000 (**UNF sub-award: $36, 883**). Canadian Team is funded by SSHRC. Canadian Team Award: $ 60,000.

1. **Umapathy, K.,** and Chuan, Ching-Hua (PIs). 2011. A Pilot for School of Computing TLO Internship Program. 2012 UNF Transformational Learning Opportunities (TLO) Award. Awarded amount: $10,000 (Requested amount: $12,000).

Contracts ($15,850)

14. Contracted as 2016 UNF Community Engagement Scholar by UNF Center for Community-Based Learning. Stipend of $2000 and travel grant of $1750 will be provided as compensation for my services.

13. Contracted as Community-Based Transformational Learning (CBTL) Assessment Rater by UNF Center for Community-Based Learning, May 6, 2015. Received $400 stipend for my services.

12. Contracted as Community-Based Transformational Learning (CBTL) Assessment Rater by UNF Center for Community-Based Learning, December 17, 2014. Received $400 stipend for my services.

11. Contracted as Community-Based Transformational Learning (CBTL) Assessment Rater by UNF Center for Community-Based Learning, April 30, 2014. Received $400 stipend for my services.

10. Contracted as Community-Based Transformational Learning (CBTL) Assessment Rater by UNF Center for Community-Based Learning, December 18, 2013. Received $400 stipend for my services.

9. Contracted by Florida Campus Compact to develop "Working STEM Service-Learning Guide Document" containing best practices and guidelines for teaching service-learning courses as a part of the "STEM Faculty Scholars Institute" held on May 13 & 14, 2013 at Orlando, Florida. Received stipend of $200.

8. Contracted by UNF Community-Based Learning Center to Align CBTL outcomes with School of Computing Assessment and Program Outcomes in TracDat System. Received $500 stipend for my services provided between August 2012 and May 2013.

7. Contracted as Community-Based Transformational Learning (CBTL) Assessment Rater by UNF Center for Community-Based Learning, May 16, 2013. Received $400 stipend for my services.

6. Contracted as Community-Based Transformational Learning (CBTL) Assessment Rater by UNF Center for Community-Based Learning, December 13, 2012. Received $400 stipend for my services.

5. Contracted by UNF CIRT Teaching Online Seminar, May to August 2012 for redesigning a traditional course for distance learning delivery. Total amount received: $4000. Received stipend of $2000 and distance learning development budget up to $2000.

4. Contracted as 2012 UNF Community Scholar by UNF Center for Community-Based Learning. Community Scholar program starts on September 9 2012 and ends on May 27 2013. Stipend of $3000 will be provided as compensation for my services.

3. Contracted as Community-Based Transformational Learning (CBTL) Assessment Rater by UNF Center for Community-Based Learning, May 11 and 18, 2012. Received $500 stipend for my services.

2. Contracted by Florida Campus Compact as Course Redesign Facilitator at the "Bridging Community-Based Learning and STEM – Integrated Course Redesign for Effective Learning" workshop held on February 24 and 25, 2012 at University of North Florida. Received stipend of $500.

1. Contracted as 2011 Florida Campus Compact STEM Fellow. Received stipend of $1000 as a part of the fellowship award.

AWARDS AND HONORS

- 2020 Best Paper Award in Information Systems in Use track at the 2020 Southern Association of Information Systems (SAIS) Conference
- 2019 Best Paper Award for the SIG Computer and Internet Applications in Education Papers at the American Educational Research Association (AERA) Conference
- 2019 Best Faculty and Student Best Paper Award at the 2019 Southern Association of Information Systems (SAIS) Conference
- Featured in the UNF Faculty Forum. http://bit.ly/UNFUK18
- 2018 UNF Presidential Faculty Leaders Award
- 2017-2018 UNF Outstanding Graduate Teaching Award
- 2018-2020 FIS Distinguished Professor in CIS Award
- 2016-2017 UNF Community Engagement Scholar
- IEEE Senior Member, April 2016
- Received Conference Best Paper – Finalist Award at the 2016 Southern Association of Information Systems (SAIS) Conference
- Featured in the Penn State IST graduate alumni profile. http://goo.gl/BwiRRo
- 2012-2013 UNF Community Scholar
- 2012-2013 Florida Campus Compact STEM Certified Scholar
- Received Conference Best Paper Award at the 2012 Conference on Information Systems Applied Research (CONISAR)
- Recognized as one of the 2012 "Movers and Shakers" of the Northeast Florida by the Indo-US Chamber of Commerce of Northeast Florida for contributions to the entrepreneurial community
- Featured in the University of North Florida Center for Community-Based Learning video to promote service learning. https://www.youtube.com/watch?v=wJ-CSoXo_Bs
- 2010 ICIS Junior Faculty Consortium Fellow – MIS Camp, St Louis, MO, USA
- 2009 First S.T.A.R. (Award for Research Excellence), University of North Florida
- Received Meritorious Award at the 2008 Conference on Information Systems Applied Research (CONISAR)
- Inducted into Upsilon Pi Epsilon, Honor Society for the Computing and Information Disciplines (December 2008, through University of North Florida Chapter)

SOFTWARE ARTIFACTS

- GameFace FL-DSSG Dashboard – consists of juvenile arrests and disciplinary action dashboards for identifying areas in Duval County where GameFace can make an impact (Pancholi, A., Sharma, M., Richard, D., and Umapathy, K. 2022). https://tabsoft.co/3fXJkKb

- League of Women Voters FL-DSSG Dashboard – consists of three dashboards, first for viewing analysis of voter profiles, second for viewing analysis of voting methods using Florida Divisions of Elections data, and third for viewing analysis of socio-economic variables using Census data (Rangarajan, A., Elbatouty, M., Richard, D., and Umapathy, K. 2022). https://tabsoft.co/3fPgjAe
- Temporal Active Analytics – a dynamic front-end system for automatically updating web page navigational elements using time-variant data from Google Analytics reports (Koza, J. and Umapathy, K. 2018).
- AutoCIRI – automates CIRI (Cingranelli-Richards) rating of human rights practices reported in the U.S Department of State annual country reports (Joiner, J. and Umapathy, K. 2018).
- Jacksonville Community Health Neighborhood Comparison FL-DSSG Dashboard – consists of two dashboards; first, the composite dashboard shows composite scores for specific health indicators, and second, the comparison dashboard allows comparison of data for multiple Census Tracts (Copello, E., Smith, J., Richard, D., and Umapathy, K. 2022). http://bit.ly/17fldssgmayotableau
- Active Analytics – provides the ability for website designers to configure portions of the user interface to be highlighted based on Google Analytics data to help users find highly used menu options faster (Carle, W. and Umapathy, K. 2016).
- WSAT-1PC for JBoss Transaction – provides one phase protocol commit mechanism for Web Service Atomic Transaction specifications used within JBoss Transactions (Rana, C. and Umapathy, K. 2014).
- CHORtoNET – converts Web Service Choreography (WS-CDL) specifications into Colored PetriNet (CPN) representations (Caliz, E. and Umapathy K., 2010).
- IDAssist (Integration Designer Assistant) – assists designers with selecting integration patterns and developing web service based systems integration solutions for a given business process (Umapathy K. and Purao S., 2008).
- Dimensional Engineering – provides guidance for metal casting designers with steel casting pattern allowance prediction (Umapathy K. and Voigt R., 2003).
- OperationsDB – converting assembly and machine operation reports from paper format into a computerized database (Umapathy, K., 1998).

PUBLICATIONS

Journals

18. Rana, C.N., **Umapathy, K.**, Asaithambi, A., & Goel, L. (Accepted for Publication). Enabling One-Phase Commit Protocol for Web Service Atomic Transaction. International Journal of Business Information Systems.

17. Pascale, A.B., Richard, D., & **Umapathy, K.** (2021). Am I STEM? Broadening Participation by Transforming Students' Perceptions of Self and Others as STEM-Capable. Journal of Higher Education Theory and Practice, 21(7), 147-159. https://doi.org/10.33423/jhetp.v21i7

16. Xu, Z., Ritzhaupt, A. D., **Umapathy, K.**, Ning, Y., & Tsai, C.-C. (2021). Exploring College Students' Conceptions of Learning Computer Science: A Draw-A-Picture Technique Study. Computer Science Education, 31(1), 60–82.

15. Copello, E., Smith, J., Mease, A., **Umapathy, K.**, Richard, D., Knight, A-M., Albertie, M., Hamadi, H., Spaulding, A., and Apatu, E. (2020). Developing a GIS Dashboard Tool to Inform Non-Profit Hospitals of Community Health Needs at the Neighborhood Level. Journal of Information Systems Applied Research, vol. 13 (2), pp.: 33 – 53.

14. **Umapathy, K.,** Ritzhaupt, A.D., and Xu, Z. (2020). College Students' Conceptions of Learning of and Approaches to Learning Computer Science. Journal of Educational Computing Research, vol. 58 (3), pp.: 662 - 686.

13. Xu, Z., Ritzhaupt, A.D., Tian, F., and **Umapathy, K.** (2019). Block-based versus text-based programming environments on novice student learning outcomes: a meta-analysis study. Computer Science Education, vol. 29 (2-3), pp.: 177 - 204.

12. **Umapathy, K.**, and Ritzhaupt, A.D. (2017). A Meta-Analysis of Pair-Programming in Computer Programming Courses: Implications for Educational Practice. ACM Transactions on Computing Education (TOCE), vol. 17 (4), pp.: 1 – 13.

11. Potti, P.K., Ahuja, S., **Umapathy, K.**, and Prodanoff, Z (2013). Comparing Performance of Web Service Interaction Styles: SOAP vs. REST. Journal of Information Systems Applied Research, vol. 6 (1), pp.: 4 – 26.

10. **Umapathy, K**., Purao, S., and Bagby, J.W. (2012). Empirical Analysis of Anticipatory Standardization Processes: A Case Study. Information Systems and e-Business Management (ISeB), vol. 10 (3), pp.: 325 – 350. Impact factor: 0.750 (2011).

9. Ritzhaupt, A.D., **Umapathy, K**, and Jamba, L. (2012). A Study on Services Motivating Computing Professional Association Membership. International Journal of Human Capital and Information Technology Professionals (IJHCITP), vol. 3 (1), pp.: 54 – 70.

8. **Umapathy, K**., & Purao, S. (2010). Systems Integration and Web Services. Computer, vol. 43(11), pp.: 91-94. Impact factor: 1.470 (2011).

7. **Umapathy, K.**, and Wallace, F.L. (2010). Role of Web Server in Capstone Course. Information Systems Education Journal, vol. 8 (62).

6. **Umapathy, K.**, Jamba, L., and Ritzhaupt, A.D. (2010). Factors that Persuade and Deter Membership in Professional Computing Associations. Journal of Information Systems Applied Research, vol. 3 (14).

5. Sánchez-Ruíz, A.J., **Umapathy, K.**, and Hayes, P (2009). An End-User-Oriented, Immersive, and Collaborative Initiative to Solve the Data Interoperability Problem. Journal of Computing Science and Engineering (JCSE), vol. 3(2), pp.: 127-141.

4. Ritzhaupt, A.D., **Umapathy, K.**, and Jamba, L. (2008). Computing Professional Association Membership: An Exploration of Membership Needs and Motivations. Journal of Information Systems Applied Research, vol. 1 (4).

3. **Umapathy, K.**, Purao, S., and Barton, R.R (2008). Designing Enterprise Integration Solutions - Effectively. European Journal of Information Systems (EJIS), vol. 17(5), pp.: 518-528. Impact factor: 1.500 (2011).

2. **Umapathy, K.**, and Purao, S. (2007). A Theoretical Investigation of the Emerging Standards for Web Services. Information Systems Frontiers (ISF), vol. 9(1), pp.: 119-134. Impact factor: 0.912 (2011).

1. Simpson, T., **Umapathy, K.**, Nanda, J., Halbe, S., and Hodge, B. (2003). Development of a Framework for Web-Based Product Platform Customization. Journal of Computing and Information Science in Engineering, vol. 3(2), pp.: 119-129. Impact factor: 0.511 (2011).

Book Chapters

9. **Umapathy, K.** (2020). Collaborative Community Engagement Triad Model to Enhance Student Learning Experiences for a Web Application Capstone Course. In Community-Based Transformational Learning: An Interdisciplinary Inquiry into Student Experiences and Challenges. Christian Winterbottom, Jody S. Nicholson, and F. Dan Richard (Eds.). Bloomsbury, New York, NY. ISBN: 9781350095816.

8. Khalil, H., **Umapathy, K.**, Goel, L.C., and Reddivari, S. (2019). Exploring Relationships Between e-Tailing Website Quality and Purchase Intention. HCI in Business, Government and Organizations - Commerce and Consumer Behavior. Lecture Notes in Computer Science series, vol. 11588, pp. 1 – 19.

7. **Umapathy, K**., Purao, S., and Bagby, J.W. (2016, September). Investigating IT Standardization Process through the lens of Theory of Communicative Action. In E-Life: Web-Enabled Convergence of Commerce, Work, and Social Life, vol. 258 of the series Lecture Notes in Business Information Processing, pp.: 40-53. Vijayan Sugumaran, Victoria Yoon, and Michael Shaw (Eds.). Springer-Verlag, Berlin. ISBN: 978-3-319-45408-5.

6. **Umapathy, K**. (2011, October). The Language-Action Approach: Information Systems Supporting Social Actions. In Information Systems Theory: Explaining and Predicting Our Digital Society, Vol. 2. Springer, New York. ISBN: 9781441997067.

5. Caliz, E., **Umapathy, K.**, Sanchez-Ruiz, A.J., and Elfayoumy, A.S. (2011, May). Analyzing Web Service Choreography Specifications Using Colored Petri Nets. Lecture Notes in Computer Science (LNCS): Service-Oriented Perspectives in Design Science Research, vol.: 6629, pp.: 412-426. Hemant Jain, Atish P. Sinha, and Padmal Vitharana (Eds.). Springer-Verlag, Berlin. ISBN: 978-3-642-20632-0.

4. **Umapathy, K.**, Purao, S., and Bagby, J.W. (2011, January). Analyzing Processes behind Web Service Standards Development. Lecture Notes in Business Information Processing: Exploring the Grand Challenges for Next Generation E-Business, vol 52, pp.: 137-146. Raj Sharman, H. Raghav Rao and T. S. Raghu (Eds.). Springer-Verlag, Berlin. ISBN: 978-3642174483.

3. Sánchez-Ruíz, A.J., **Umapathy, K.**, Beckham, J. and Welsh, P. (2009, October). The Data Interoperability Problem as an Exemplary Case Study in the Development of Software Collaboration Environments. Collaborative Computing: Networking, Applications and Worksharing. Springer-Verlag, Berlin. ISBN: 978-3642033537. (This chapter was

presented by Arturo Sanchez at the 2008 International Workshop on Collaboration and Cognition in Next Generation Networks (CoNGN)).

2. **Umapathy, K**. (2009, May). The Influences and Impacts of Societal factors on the adoption of Web Services. Handbook of Research on Social Dimensions of Semantic Technologies and Web Services. Information Science Reference. ISBN: 978-1605666501.

1. **Umapathy, K**. (2009, May) Language-Action Perspective (LAP). Handbook of Research on Contemporary Theoretical Models in Information Systems. Information Science Reference. ISBN: 978-1605666594.

Conference Proceedings

28. O'Neal, A., and **Umapathy, K.** (2023). Systematic Literature Review and Research Model to Examine Data Analytics Adoption in Organizational Contexts. Proceedings of the Southern Association for Information Systems (SAIS). Hilton Head, South Carolina, USA.

28. Roy, S., Kreidl, P., **Umapathy, K.,** Prodanoff, and Vakilinia, I. (2022). Building Framework and Infrastructure to Assist a Minority Serving Institution (MSI) in Cybersecurity Program Development. Proceedings of the International Conference on Computational Science and Computational Intelligence (CSCI), December 14 to 16, Las Vegas, USA.

27. Welch, L.W., Liu, X., Kahanda, I., Reddivari, S., and **Umapathy, K.** (2021). Vegetation Coverage in Marsh Grass Photography Using Convolutional Neural Networks. Proceedings of the Florida Artificial Intelligence Research Society (FLAIRS) Conference, North Miami Beach, FL.

26. Burkul, P., **Umapathy, K.**, Asaithambi, A., and Huang, H. (2020). Data Mining Pipeline for Performing Decision Tree Analysis on Mortality Dataset with ICD-10 Codes. Proceedings of the Southern Association for Information Systems (SAIS). **Conference Best Paper in Information Systems in Use track Award.**

25. Allen, J., Liu, X., **Umapathy, K.**, and Reddivari, S. (2020). Clustering Partial Lexicographic Preference Trees. Proceedings of the Florida Artificial Intelligence Research Society (FLAIRS) Conference, North Miami Beach, FL. The conference was canceled due to COVID-19, but the paper was published by the Association for the Advancement of Artificial Intelligence Press.

24. Khalil, H., and **Umapathy, K.** (2019). An Exploratory Study on the Influences of Website Quality on Actual Purchase and Moderation Effects. Proceedings of the Southern Association for Information Systems (SAIS), Atlanta, GA, USA. **Conference Best Paper – Faculty and Student Research Award.**

23. Raman, J., **Umapathy, K.,** and Huang, H. (2018). Security and User Experience: A Holistic Model for CAPTCHA Usability Issues. Proceedings of the Southern Association for Information Systems (SAIS), Atlanta, GA, USA.

22. **Umapathy, K.** and Connolly, J. A. (2017). Data Analytics as a Conduit for Progressing Information Systems Research in Nonprofit Organizations. Proceedings of the Southern Association for Information Systems (SAIS), St. Simons Island, GA, USA.

21. Al-Sammarraie, M., and **Umapathy, K**. (2016). A Research Plan to Study Impact of a Collaborative Web Search Tool on Novice's Query Behavior. Proceedings of the International Conference on Collaboration Technologies and Systems (CTS), Orlando, FL, USA.

20. Shrivastava, D., **Umapathy, K**., Huang, H., Chuan, C.H., and Goel, L. (2016). A Study on Influence of Gender Differences on Social Presence Features. Proceedings of the Southern Association for Information Systems (SAIS), St. Augustine, FL, USA. **Conference Best Paper – Finalist**.

19. **Umapathy, K.** and Huang, H. (2015). A Preliminary Study of Information Technologies Usage in Nonprofit Organizations. Proceedings of the Americas Conference on Information Systems (AMCIS), Puerto Rico, USA.

18. Purao, S., **Umapathy, K.** and Bagby, J.W. (2015). Activity patterns in design processes of IT standards. Proceedings of the International Conference on Design Science Research in Information Systems and Technology (DESRIST), Dublin, Ireland. pp. 85-90.

17. LaValley, C., and **Umapathy, K**. (2015). Conceptual Model of Website Design Elements that Influences Credibility and Trustworthiness. Proceedings of the Southern Association for Information Systems (SAIS), Hilton Head, South Carolina, USA.

16. Rana, C.N., and **Umapathy, K**. (2014). Review of Web Service Specifications for Long-running Conversations. Proceedings of the Conference on Information Systems Applied Research (CONISAR), Baltimore, Maryland, USA.

15. Miller, B., Shrestha, A., Li, F., Derby, J., and Olive, J., and **Umapathy, K**. (2013). Digging into Human Rights Violations: Data Modeling Collective Memory. Proceedings of the IEEE Big Data: Workshop on Big Humanities, Santa Clara, California, USA.

14. Miller, B., Li, F., Shrestha, A., and **Umapathy, K**. (2013). Digging into Human Rights Violations Phrase mining and trigram visualization. Proceedings of the Digital Humanities, Lincoln, Nebraska, USA.

13. **Umapathy, K.**, and Ritzhaupt, A.D. (2011). Role of Professional Associations in Preparing, Recruiting, and Retaining Computing Professionals. Proceedings of the ACM SIGMIS Computer Personnel Research (CPR) Conference, San Antonio, Texas, USA.

12. **Umapathy, K.** (2009). From Service Conversation Models to WS-CDL. Proceedings of the Americas Conference on Information Systems (AMCIS), San Francisco, California, USA.

11. Engberg, J.M., **Umapathy, K.**, and Wallace, F.L. (2009). Information Extraction From Different Data Representation Forms: Charts and Tables. Proceedings of the Southern Association for Information Systems (SAIS).

10. Purao, S., Bagby, J.W, and **Umapathy, K.** (2008). Standardizing Web Services: Overcoming 'Design by Committee'. Proceedings of the IEEE Congress of Services Conference.

9. **Umapathy, K.** and Purao, S. (2008). Representing and Accessing Design Knowledge for Service Integration. Proceedings of the IEEE International Conference on Services Computing (SCC) (Acceptance Rate: 18%).

8. **Umapathy, K.**, and Purao, S. (2007). Exploring Alternatives for Representing and Accessing Design Knowledge about Enterprise Integration. Proceedings of the International Conference on Conceptual Modeling (ER) (Acceptance Rate: 22.2%).

7. **Umapathy, K.** and Purao, S. (2007). Towards A Theoretical Foundation for Web Services – The Language-Action Perspective (LAP) Approach. Proceedings of the IEEE International Conference on Services Computing (SCC) (Acceptance Rate: 20%).

6. **Umapathy, K**. (2007). Towards Co-Design of Business Process and Information Systems Using Web Services. Proceedings of the Hawaii International Conference on System Sciences (HICSS).

5. **Umapathy, K.**, and Purao, S. (2006). Designing Enterprise Solutions with Web Services and Integration Patterns. Proceedings of the IEEE International Conference on Services Computing (SCC).

4. Xiao, L., Huang, H., and **Umapathy, K**. (2005). A Case Study: Information and Communication Technologies Adoption in Higher Education in China and India. Proceedings of the Americas Conference on Information Systems (AMCIS).

3. Fan, X., **Umapathy, K.**, Yen, J., and Purao, S. (2004). An Agent-Based Approach for Interleaved Composition and Execution of Web Services. Proceedings of the International Conference on Conceptual Modeling (ER) (Acceptance Rate: 19.5%).

2. Fan, X., **Umapathy, K.**, Yen, J., and Purao, S. (2004). Team-based Agents for Proactive Failure Handling in Dynamic Composition of Web Services. Proceedings of the IEEE International Conference on Web Services (ICWS) (Acceptance Rate: 28.7%).

1. **Umapathy, K.**, and Purao, S. (2004). Service-Oriented Computing: An Opportunity for the Language-Action Perspective? Proceedings of the International Working Conference on the Language-Action Perspective on Communication Modelling (LAP).

Workshops

5. **Umapathy, K.** (2010). Requirements to support Collaborative Sensemaking. Proceedings of the International Workshop on Collaborative Information Seeking, Savannah, Georgia, USA.

4. **Umapathy, K.** (2009). An Investigation of W3C Standardization Processes Using Rational Discourse. Proceedings of the AIS Special Interest Group on Pragmatist IS Research (SIGPrag) meeting, Phoenix, USA.

3. Sánchez-Ruíz, A.J., **Umapathy, K.**, and Hayes, P (2008).Toward Generic, Immersive, and Collaborative Solutions to the Data Interoperability Problem which Target End-

Users. Proceedings of the International workshop on Ontologies and Information Systems for the Semantic Web (ONISW). Accepted as Position Paper.

2.   **Umapathy, K**. (2006). Assessment of Web Services Specifications to Support Long-Running Conversations. Proceedings of the Workshop on Information Technologies and Systems (WITS). http://ssrn.com/abstract=1025493

1.   **Umapathy, K**., Purao, S., and Sugumaran, V. (2003). Facilitating Conversations among Web Services as Speech-act based Discourses. Proceedings of the Workshop on Information Technologies and Systems.

Doctoral Consortium

2.   **Umapathy, K**. (2007). A Study of Language-Action Perspective as a Theoretical Framework for Web Services. Proceedings of the IEEE Congress on Services (Ph.D. Symposium on Service Computing).

1.   **Umapathy, K**. (2006). A Study of Language-Action Perspective as a Theoretical Framework for Web Services. Proceedings of the International Ph.D. Symposium on Service-Oriented Computing.

Book Reviews

2.   Huang, H., and **Umapathy, K**. (2007). Review of ICTs and Indian Economic Development: Economy, Work, Regulation. Information Technology and People (ITP), vol.: 20 (3), pp.: 304-305.

1.   **Umapathy, K**. (2006). Review of Business Process Management Systems: Strategy and Implementation. Information Technology and People (ITP), vol.: 19 (2), pp.: 188-189.

Posters

19. Lamichhane, P., Kahanda, I., Liu, X., **Umapathy, K.,** Reddivari, S., Christie, C., Arikawa, A., and Ross, J. (2023). BioFactCheck: Exploring the Feasibility of Explainable Automated Inconsistency Detection in Biomedical and Health Literature. Poster and Demo presentation at the International Conference on Connected Health: Applications, Systems and Engineering Technologies (IEEE/ACM CHASE), Orlando, FL, June 21 to 23, 2023.

18. **Umapathy, K.,** Cheng, L., Ritzhaupt, A.D., Antonyan, K., Shidfar, P., Nichols, J., Abramowitz, B., and Zhu, J. (2023). Examination of Undergraduate Student Conceptions of Artificial Intelligence in Education: A Scale Development. Poster presentation at the American Educational Research Association (AERA) Annual Meeting, Chicago, IL, April 13 to 16, 2023.

17. Sharma, M., Pancholi, A., Richard, D., **Umapathy, K.,** and Jackson, A. (2022). Identifying Communities with Opportunities for Positive Youth Development. Poster presentation at the UNF DHI Digital Projects Showcase, November 4, 2022.

16. Singh, A., Conwell, A., Allen, J., Richard, D., **Umapathy, K.,** Goodkind, J., Bell, P., Neff, M., and Wright, L. (2022). Feeding Northeast Florida: Finding Data-Driven

Insights in the Fight Against Hunger. Poster presentation at the Learning & Doing Data for Good: a conference for academics and their partners, University of Washington, Seattle, WA, USA, September 9 to 11, 2022.

15. Sharma, M., Pancholi, A., Richard, D., **Umapathy, K.**, and Jackson, A. (2022). Identifying Communities with Opportunities for Positive Youth Development. Poster presentation at the Learning & Doing Data for Good: a conference for academics and their partners, University of Washington, Seattle, WA, USA, September 9 to 11, 2022.

14. Hunt, T., Johnson, J., Agarwal, P., Richard, D., **Umapathy, K.**, and Nash, L. (2021). Profiling Florida Voter Participation. Poster presentation at the UNF DHI Digital Projects Showcase, November 15-19, 2021.

13. Pascale, A.B., Richard., D., and **Umapathy, K.**, (2021). Am I STEM? Broadening Participation by Transforming Students' Perceptions of Self and Others as STEM-Capable. Poster presentation at the 2021 American Educational Research Association (AERA) Annual Meeting, April 8, 2021.

12. Singh, A., Conwell, A., Allen, J., **Umapathy, K.**, Richard, D., Goodkind, J., Bell, P., Neff, M., and Wright, L. (2019). Dashboard for Extracting Regional Insights and Ranking Food Deserts in Northeast Florida. Poster presentation at the UNF DHI Digital Projects Showcase, November 15, 2019.

11. Copello, E., Smith, J., Mease, A., **Umapathy, K.**, Richard, D., Knight, A-M., Albertie, M., and Apatu, E. (2018). The Design of a Neighborhood Level Community Health Needs Assessment Map Tool for Non-Profit Hospitals. Poster presentation at the 2018 Academy Health Annual Research Meeting, June 24 - 26, 2018, Seattle, Washington.

10. **Umapathy, K.** (2018). Digging into Human Rights Documents. Poster presentation at the UNF International Studies Symposium, March 9, 2018.

9. Joiner, J., and **Umapathy, K.** (2017). Automating CIRI Ratings of Human Rights Reports Using GATE: Evaluation Results. Poster presentation at the UNF DHI Digital Projects Showcase, November 8, 2017.

8. Rousis, G., Carpenter, R., Richard, D., **Umapathy, K.**, Copello, E., Smith, J., and Pandya, H. (2017). Florida Data Science for Social Good (FL-DSSG): Social Trustees of Knowledge with a Unique Capacity to Do Social Good. Poster presentation at the Society of Southeastern Social Psychologists (SSSP), November 3 - 4, 2017, Atlantic Beach, FL.

7. Joiner, J., and **Umapathy, K.** (2016). Automating CIRI Ratings of Human Rights Reports Using GATE. Poster presentation at the UNF DHI Digital Projects Showcase, November 2, 2016.

6. McCarl, C., **Umapathy, K.**, Adelperger. C., Brady, K., and Ross, K. (2016). coloniaLab. Poster presentation at the UNF DHI Digital Projects Showcase, November 2, 2016.

5. **Umapathy, K.** (2015). Computing Senior Capstone Project. Poster presentation at the UNF Community Engaged Scholars Luncheon, November 13, 2015.

4. **Umapathy, K.** (2015). Service Learning Projects – Information Systems Senior Project Course. Invited poster presentation at the UNF CCEC Dean Leadership Council, April 7, 2015.

3. **Umapathy, K.** (2013). NSF funded research project: Digging into Human Rights Violations. Invited poster presentation at the UNF CCEC Dean Leadership Council, April 2, 2013.

2. **Umapathy, K**. and Purao, S. (2006). Designing Under the Influence of Speech-Acts-based Enterprise Integration Patterns. Presented as Demo/Poster at the International Conference on Conceptual Modeling (ER).

1. **Umapathy, K**., Huang, H. & Xiao, L. (2005). A Case Study: Information and Communication Technologies Adoption in Higher Education in China and India. Presented as Poster in the Twentieth Annual Graduate Exhibition, held at the Pennsylvania State University.

Reports (not peer-reviewed)

26. Rangarajan. A., Elbatouty, M., Richard, D., and **Umapathy, K.** (2023). League of Women Voters of Florida Final Report – Finding Insights in Florida Voter Participation. Florida Data Science for Social Good. University of North Florida, Jacksonville, FL.

25. Pancholi, A., Sharma, M., Richard, D., and **Umapathy, K**. (2022). GameFace 4:13 Training Academy Final Report – Identifying Communities with Opportunities for Positive Youth Development. Florida Data Science for Social Good. University of North Florida, Jacksonville, FL.

24. Milligan, S., Ferdman, B., Richard, D., and **Umapathy, K.** (2022). Cathedral Arts Project Final Report – Analysis of Arts Programming in Duval County Public Schools. Florida Data Science for Social Good. University of North Florida, Jacksonville, FL.

23. The Data for Good Growth Map: Decision Points for Designing a University-Based Data for Good Program (November 2021). Authored by Dharma Dailey, Sarah Stone, and Anissa Tanweer with contributions from Karthikeyan Umapathy, Dan Richard, and other Data for Good (D4G) program directors. https://escience.washington.edu/wp-content/uploads/2021/11/Data4Good_GrowthMap.pdf.

22. Xiao, W., Regan, L., Richard, D., and **Umapathy, K.** (2021). Jewish Family & Community Services Final Report – Identifying Trends in Patient Scheduling for Counseling Services. Florida Data Science for Social Good. University of North Florida, Jacksonville, FL.

21. Hunt, T., Johnson, J., Agarwal, P., Richard, D., and **Umapathy, K.** (2021). League of Women Voters of Florida Final Report – Finding Insights in Florida Voter Participation. Florida Data Science for Social Good. University of North Florida, Jacksonville, FL.

20. Zamani, M., Reasonover, M., Agarwal, P., Richard, D., and **Umapathy, K.** (2021). Barnabas Final Report – Impacts of Health Services on Emergency Department Utilization. Florida Data Science for Social Good. University of North Florida, Jacksonville, FL.

19. Silveira, A., Rao, C., Shah, R., Richard, D., and **Umapathy, K.** (2020). Center for Children's Rights Final Report – Analyzing Impacts of the School to Prison Pipeline Program. Florida Data Science for Social Good. University of North Florida, Jacksonville, FL.

18. Arnold, D., Baradi, V.K.R., Farriss-Dardano, K., Richard, D., and **Umapathy, K.** (2020). Episcopal Children's Services Final Report – Identifying Children and Families with Low-incomes and Early Learning Needs. Florida Data Science for Social Good. University of North Florida, Jacksonville, FL.

17. Babayigit, S., Shah, R., Baradi, V.K.R., Richard, D., and **Umapathy, K.** (2020). Literacy Alliance of Northeast Florida Final Report – Mining Insights from the Adult Learners Educational Data. Florida Data Science for Social Good. University of North Florida, Jacksonville, FL.

16. Free, J., Bhattacharya, A., Mea, K., Cole, N., Richard, D., and **Umapathy, K.** (2019). Children's Services Council of Palm Beach County Final Report - Determining Services that Contribute to Healthy Child Outcomes. Florida Data Science for Social Good. University of North Florida, Jacksonville, FL.

15. Stanton, B., Allen, J., Namilla, A., Cole, N., Richard, D., and **Umapathy, K.** (2019). Starting Point Behavioral Healthcare Final Report - Understanding the Patterns of Recidivism in Mental Health. Florida Data Science for Social Good. University of North Florida, Jacksonville, FL.

14. Singh, A. Conwell, A., Allen, J., Cole, N., Richard, D., and **Umapathy, K.** (2019). The Feeding Northeast Florida Final Report - Finding Data-Driven Insights in the Fight Against Hunger. Florida Data Science for Social Good. University of North Florida, Jacksonville, FL.

13. Bryant, B. Bhattacharya, A., Mea, K., Cole, N., Richard, D., and **Umapathy, K.** (2019). The Cathedral Arts Project Final Report - Analyzing Impacts of the Arts Education. Florida Data Science for Social Good. University of North Florida, Jacksonville, FL.

12. **Umapathy, K.,** and Richard, D. (2019). 2018 FL-DSSG Annual Report. Florida Data Science for Social Good. University of North Florida, Jacksonville, FL. https://works.bepress.com/karthikeyan_umapathy/12/

11. Sayed, D., Cummings, C., Richard, D., and **Umapathy, K.** (2018). The Performers Academy Final Report. Florida Data Science for Social Good. University of North Florida, Jacksonville, FL.

10. Bardash, Y., Coker, G., Richard, D., and **Umapathy, K.** (2018). Girls Incorporated of Jacksonville Final Report. Florida Data Science for Social Good. University of North Florida, Jacksonville, FL.

9. Powell, T., Siddiqui, H., Richard, D., and **Umapathy, K.** (2018). Family Support Services of North Florida - Gaining Insights from the Purchase of Services (POS) System. Florida Data Science for Social Good. University of North Florida, Jacksonville, FL.

8. Surprenant, B., Sayed, D., Giroux, W., Richard, D., and **Umapathy, K.** (2018). Baptist Health Y Healthy Living Centers - Prevalence of Metabolic Syndrome. Florida Data Science for Social Good. University of North Florida, Jacksonville, FL.

7. Richard, D., and **Umapathy, K.** (2018). 2017 FL-DSSG Founders Report. Florida Data Science for Social Good. University of North Florida, Jacksonville, FL. https://works.bepress.com/karthikeyan_umapathy/11/

6. Pandya, H., Rousis, G., Richard, D., and **Umapathy, K.** (2017). Yoga 4 Change: Analyzing Impacts of Yoga Curriculum on Stress and Mood Levels. Florida Data Science for Social Good. University of North Florida, Jacksonville, FL.

5. Carpenter, R., Rousis, G., Richard, D., and **Umapathy, K.** (2017). Changing Homelessness: Creating Profile of Homelessness and Moving Toward Dignity. Florida Data Science for Social Good. University of North Florida, Jacksonville, FL.

4. Copello, E., Smith, J., Richard, D., and **Umapathy, K.** (2017). Mayo Clinic Wellness RX: Helping the Community Address Health Disparities. Florida Data Science for Social Good. University of North Florida, Jacksonville, FL.

3. Miller, B., Xiao, L., and **Umapathy, K.** (2015). Digging into Human Rights Violations: Anaphora Resolution and Emergent Witnesses. White Paper. National Endowment for the Humanities (NEH), Washington, D.C.

2. Ritzhaupt, A.D., **Umapathy, K.**, and Jamba, L. (2008). An Investigation of the AITP Membership Using the Ideal Computing Association Survey. Association of Information Technology Professionals (AITP).

1. Mitra, P., Purao, S., Bagby, J.W., **Umapathy, K.**, and Paul, S. A. (2005). An Empirical Analysis of Development Processes for Anticipatory Standards. NET Institute Working Paper No. 05-18. Available at SSRN: http://ssrn.com/abstract=850524.

Miscellaneous (not peer-reviewed)

1. **Umapathy, K**. (2007). Language action perspective. Theories Used in IS Research Wiki. http://istheory.byu.edu/wiki/Language_action_perspective

PRESENTATIONS

Invited Talks/ Panels

27. Current and Future Trends in Data Analytics Engineering. Panel discussant at the International Conference on Advances in Computing Research (ACR), Orlando, May 8 to 10, 2023. The panel was moderated by Guillermo Francia III. The panel members were Robert Polding, Karthikeyan Umapathy, and Khem Poudel.

26. 2022 Florida Data Science for Social Good (FL-DSSG): The Big Reveal. Presented at the 2022 FL-DSSG Big Reveal Event on August 23, 2022. Co-presented along with Dan Richard, Mahmoud Elbatouty, Brian Ferdman, Sara Milligan, Abhishek Pancholi, Adhithyan Rangarajan, and Minakshi Sharma.

25. Creating a University-Based Data for Good Program, Session 3: Selecting and Supporting Students. Panel discussant at the Creating D4G Workshop on January 28, 2022. Sarah Stone moderated the panel. The panel members were Diego Arenas, Kevin Lin, and Karthikeyan Umapathy. The event was held virtually.

24. Data Science for Social Impact in University-based Programs. Panel discussant at the Academic Data Science Alliance 2021 Virtual Meeting on November 10, 2021. The panel was moderated by Doug Hague, Amy Hawn Nelson, and Sarah Stone. The panel members were Cass Dorius, Karthikeyan Umapathy, David Uminsky, Dharma Dailey, Gizem Korkmaz, and Rebecca Shearer.

23. 2021 Florida Data Science for Social Good (FL-DSSG): The Big Reveal. Presented on August 17, 2021. Co-presented along with Dan Richard, Payal Agarwal, Thomas Hunt, Joyner Johnson, Madisen Reasonover, Lindsay Regan, Wanyue Xiao, and Mark Zamani.

22. 2020 Florida Data Science for Social Good (FL-DSSG): The Big Reveal. Presented on August 18, 2020. Co-presented along with Dan Richard, Data Arnold, Vinay Kumar Reddy Baradi, Suat Babayigit, Kayla Farriss-Dardano, Chandrika Rao, Raj Shah, and Alysson Silveira.

21. Collaborative Community Engagement: Bringing Data Science to Societal Challenges. Invited talk at the Bentley University, October 10, 2019, Boston, MA.

20. Getting Students Engaged in Social Good. Panel discussant at the IEEE International Conference on Data Science and Advanced Analytics (DSAA) on October 5, 2019 held in Washington, DC. The panel was moderated by Pam Davis-Kean from University of Michigan. The panel members were Rayid Ghani from Carnegie Mellon University, Sarah Stone from University of Washington, William Ratcliff from DataKind, and Karthikeyan Umapathy from University of North Florida.

20. Florida Data Science for Social Good (FL-DSSG): Data Science Meets Community Impact. Invited talk on September 24, 2019 at the Jacksonville Big Data Meetup Group. Co-presented along with Dan Richard, Amitabh Bhattacharya, and Nicholas Cole.

19. 2019 Florida Data Science for Social Good (FL-DSSG): The Big Reveal. Presented at the 2019 FL-DSSG Big Reveal Event on August 20, 2019. Co-presented along with Dan Richard, Joseph Allen, Amitabh Bhattacharya, Breana Bryant, Nicholas Cole, Abigail Conwell, Joseph Free, Ashlee Larramore, Kevin Mea, Avinash Namilla, Abhishek Singh, and Bridget Stanton.

18. Who has your data? Data Security and sharing in the Nonprofit Sector. Panel discussant at the Nonprofit Works: Cultivate Change conference on June 13, 2019 held in Jacksonville, FL.

17. Data Science for Social Good: Building Capacity for Data-Driven Decision Making. Invited talk on October 18, 2018 at the Northeast Florida Grant Professionals Association Chapter Meeting. Co-presented along with Dan Richard.

16. Florida Data Science for Social Good (FL-DSSG): Data Science Meets Community Impact. Invited talk on September 25, 2018 at the Jacksonville Big Data Meetup Group.

Co-presented along with Dan Richard, Tabitha Powell, Habeeba Siddiqui, and Britni Surprenant.

15. 2018 Florida Data Science for Social Good (FL-DSSG): The Big Reveal. Presented at the 2018 FL-DSSG Big Reveal Event on August 22, 2018. Co-presented along with Dan Richard, Yekaterina (Kat) Bardash, Gabrielle Coker, Crista Cummings, William Giroux, Tabitha Powell, Danish Sayed, Habeeba Siddiqui, and Britni Surprenant.

14. Mayo Clinic Wellness Rx – Florida Data Science for Social Good Project. Invited talk on March 30, 2018 at the UNF CCEC Research Colloquium Series.

13. Florida Data Science for Social Good (FL-DSSG): Program Overview. Invited talk on October 20, 2017 at the UNF CCEC Research Colloquium Series.

12. Florida Data Science for Social Good (FL-DSSG): Data Science Meets Community Impact. Invited talk on September 26, 2017 at the Jacksonville Big Data Meetup Group. Co-presented along with Dan Richard, Evan Copello, Rachel Carpenter, Greg Rousis, and Jason Smith.

11. 2017 Florida Data Science for Social Good (FL-DSSG): The Big Reveal. Presented at the 2017 FL-DSSG Big Reveal Event on August 7, 2017. Co-presented along with Dan Richard, Rachel Carpenter, Evan Copello, Hinal Pandya, Greg Rousis, and Jason Smith.

10. A Meta-Analysis of Pair-Programming in Computer Programming Courses: Implications for Educational Practice. Invited talk on November 4, 2016 at the UNF CCEC Research Colloquium Series. Co-presented along with Albert D. Ritzhaupt.

9. Panel co-moderator along with Dan Richard for Data Ecosystem Panel organized as a part of the Data and Technology Experience, Nonprofit Center of Northeast Florida, Jacksonville, FL. October 25, 2016.

8. Technology and Society. Invited panel member. Spring 2016 International Studies Senior Seminar Lecture Series, UNF, Jacksonville, FL. February 26, 2016.

7. Leveraging Service Computing and Big Data Analytics for E-Commerce. Invited panel member. Workshop on e-Business (WeB) 2015, Fort Worth, TX. December 12, 2015.

6. Panel moderator for 2014 UNF Chief Technology Officers (CTO) Panel Discussions held on October 25, 2014.

5. How are Web Standards Designed and what Avatars got to do with it? Invited talk on March 1 2013 at the UNF CCEC Research Colloquium Series.

4. Digging into Human Rights Violation: What We Know and What We Don't. Invited panel member. June 19, 2012 at the Faculty of Information & Media Studies, Western University, London, Canada.

3. Web of Web Things. Invited Speaker for Joe Berg Seminars of Jacksonville. February 21, 2012 at the Museum of Science and History, Jacksonville, FL.

2. So you want to get your PhD. Panel discussant for encouraging Undergraduate students to pursue doctoral studies. October 20, 2011 at the UNF Honors Program.

1. How to collaborate globally with web services. Presented in Panel Discussion: Socio-Economic Implications of ICTs at the First Interdisciplinary IST Graduate Symposium, held at the Pennsylvania State University.

Conference/Workshop Presentations

41. Finding Insights in Florida Voter Participation. Paper presented at the 2023 International Conference on Advances in Computing Research (ACR), Orlando, May 8 to 10, 2023. Co-authors: Joyce Johnson, Adhithyan Rangarajan, Thomas Hunt, Payal Agarwal, Mahmoud Elbatouty, Dan Richard, and Leah Nash.

40. A Systematic Review of Affordable Homeownership using Data Science Methods. Presented at the 2022 EDSIG Conference on Information Systems and Computing Education (EDSIGCon), Clearwater, FL, November 2 to 5, 2022. Co-author: Bharani Kothareddy.

39. Measuring undergraduate students' conceptions of artificial intelligence in education using a convergent mixed-method approach. Association for Education Communications & Technology (AECT) International Convention, Las Vegas, NV, USA. Co-authors: Li Cheng, Kristine Antonyan, Muhammad Shahroze Rehman, Poorya Shidfar, Minyoung Lee, James Nicholas, and Brian Abramowitz.

38. Longitudinal Study on the Generational Impacts of Habitat for Humanity: A Research Proposal. Presented at the 2022 International Congress of Qualitative Inquiry (ICQI). Virtual Meeting, May 18 to 21, 2022. Co-authors: Athlene Jones, Tes Tuason, and Dan Richard.

37. Profiling Florida Voter Participation. Paper presented at the 2022 Annual Conference of the Florida Digital Humanities Consortium, St. Augustine, FL., April 2, 2022. Co-authors: Thomas Hunt, Joyner Johnson, Payal Agarwal, Dan Richard, and Leah Nash

36. How does online computer programming instruction compare with face-to-face? Paper presented at the 2020 International Society for Technology in Education (ISTE) Conference. Presented by Albert D. Ritzhaupt. Other co-authors are Zhen Xu, Ning Yang, and Maya Israel.

35. How does online computer programming instruction compare with face-to-face? A meta analysis on student learning, affect, and retention. Paper presented at the 2019 Florida Educational Research Association (FERA), November 13-15, 2019, St. Petersburg, FL. Presented by Zhen Xu. Other co-authors are Albert D. Ritzhaupt, Ning Yang, and Maya Israel.

34. Using drawing to explore college student' conceptions of learning computer science. Paper presented at the 2019 Florida Educational Research Association (FERA), November 13-15, 2019, St. Petersburg, FL. Presented by Zhen Xu. Other co-authors are Albert D. Ritzhaupt, Ning Yang, Fengchun Tian, and Chin-Chung Tsai.

33. Examining college students' conceptions and approaches in learning computer science. Paper presented at the 2019 Florida Educational Research Association (FERA),

November 13-15, 2019, St. Petersburg, FL. Presented by Zhen Xu. Other co-authors are Albert D. Ritzhaupt.

32. Developing a GIS Dashboard Tool to Inform Non-Profit Hospitals of Community Health Needs at the Neighborhood Level. Presented at the Conference on Information Systems Applied Research (CONISAR), Cleveland, Ohio, USA.

31. College student conceptions of and approaches to learning computer science and their relationships. Paper presented at the 2019 Association for Educational Communications and Technology (AECT) International Convention, Las Vegas, NV, USA from October 21 to 25, 2019. Presented by Albert D. Ritzhaupt. Other co-authors are Zhen Xu, and Fengchun Tian.

30. Block-based vs. Text-Based Programming Environments: A Meta-Analysis Study. Paper presented at the 2019 International Society for Technology in Education (ISTE) EdTech Conference, Philadelphia, PA, USA. June 23-26, 2019. Presented by Albert D. Ritzhaupt. Other co-authors are Zhen Xu, and Fengchun Tian.

29. A Text Mining Solution for Automating CIRI Human Rights Practices Rating Coding Scheme. Presented at the 2019 Florida Digital Humanities Consortium, March 29 to 30, 2019, Jacksonville, FL.

28. Block-based versus text-based programming environments on novice student learning outcomes: a meta-analysis study. Paper presented at the 2019 American Educational Research Association (AERA) Annual Meeting, April 5 to 9, 2019, Toronto, Canada. Presented by Xu Zhen and Albert D. Ritzhaupt. **Won the SIG Computer and Internet Applications in Education Best Paper Award.**

27. Block-based versus text-based programming environments on novice student learning outcomes: a meta-analysis study. Paper presented at the 2018 Florida Educational Research Association (FERA), November 14-16, 2018, St. Petersburg, FL. Presented by Zhen Xu.

26. Security and User Experience: A Holistic Model for CAPTCHA Usability Issues. Paper presented at the 2018 Southern Association for Information Systems (SAIS), March 23 to 24, Atlanta, GA, USA.

25. Data Analytics as a Conduit for Progressing Information Systems Research in Nonprofit Organizations. Paper presented at the 2017 Southern Association for Information Systems (SAIS), March 24 to 25, St. Simons Island, GA, USA.

24. A meta-analysis of pair-programming in computer programming courses: Implications for educational practice. Invited presentation of the ACM TOCE Journal Paper at the 2017 ACM SIGCSE Technical Symposium, March 8 - 11, Seattle, WA, USA.

23. A Research Plan to Study Impact of a Collaborative Web Search Tool on Novice's Query Behavior. Paper presented at the 2016 International Conference on Collaboration Technologies and Systems (CTS), October 31 to November 4, Orlando, FL, USA.

22. A meta-analysis of pair-programming in computer programming courses: Implications for educational practice. Paper presented at the 2016 American Educational Research

Association (AERA) Annual Meeting, April 8 - 12, Washington, DC, USA. Presented by Albert D. Ritzhaupt.

21. Investigating IT Standardization Process through the lens of Theory of Communicative Action. Paper presented the 2015 Workshop on e-Business (WeB), Fort Worth, TX, USA.

20. A Preliminary Study of Information Technologies Usage in Nonprofit Organizations. Paper presented at the 2015 Americas Conference on Information Systems (AMCIS), Puerto Rico, USA.

19. Conceptual Model of Website Design Elements that Influences Credibility and Trustworthiness. Paper presented at the 2015 Southern Association for Information Systems (SAIS), Hilton Head, South Carolina, USA. March 20 – 21, 2015.

18. Review of Web Service Specifications for Long-running Conversations. Paper presented at the Conference on Information Systems Applied Research (CONISAR), Baltimore, Maryland, USA. November 6 – 9, 2014.

17. IS Senior Project-Service Learning Course. Presented at the Florida Campus Compact STEM Faculty Scholars Institute, Orlando, Florida. May 13 – 14, 2013.

16. Comparing Performance of Web Service Interaction Styles: SOAP vs. REST. Paper presented at the Conference on Information Systems Applied Research (CONISAR), New Orleans, Louisiana, USA. November 1 – 4, 2012. **Won Conference Best Paper Award**.

15. Role of Professional Associations in Preparing, Recruiting, and Retaining Computing Professionals. Paper presented at the ACM SIGMIS Computer Personnel Research (CPR) Conference, San Antonio, Texas, USA. May 20-21, 2011.

14. Analyzing Web Service Choreography Specifications Using Colored Petri Nets. Paper presented at the Sixth International Conference on Design Science Research in Information Systems and Technology (DESRIST), Milwaukee, WI, USA. May 5-6, 2011.

13. Requirements to support Collaborative Sensemaking. Paper presented at the 2010 International Workshop on Collaborative Information Seeking, Savannah, USA.

12. Analyzing Processes behind Web Service Standards Development. Paper presented at the Eight Workshop on eBusiness, Phoenix, USA. December 15, 2009.

11. An Investigation of W3C Standardization Processes Using Rational Discourse. Paper resented at the 2009 AIS Special Interest Group on Pragmatist IS Research (SIGPrag) meeting, Phoenix, USA.

10. Factors that Persuade and Deter Membership in Professional Computing Associations. Paper presented at the 2009 Conference on Information Systems Applied Research (CONISAR), Washington DC, USA.

9. From Service Conversation Models to WS-CDL. Paper presented at the 2009 Americas Conference on Information Systems (AMCIS), San Francisco, USA.

8. Computing Professional Association Membership: An Exploration of Membership Needs and Motivations. Paper presented at the 2008 Conference on Information Systems Applied Research (CONISAR), Phoenix, USA. **Meritorious Award Winning Paper**.

7. Designing Enterprise Integration Solutions - Effectively. Paper presented at the 2008 International Conference on Design Science Research in Information Systems and Technology (DESRIST), Atlanta, USA. **Nominated for Best Paper Award.**

6. Towards A Theoretical Foundation for Web Services – The Language-Action Perspective (LAP) Approach. Paper presented at the 2007 IEEE International Conference on Services Computing (SCC), Salt Lake City, USA.

5. A Study of Language-Action Perspective as a Theoretical Framework for Web Services. Paper presented at the 2007 IEEE Congress on Services (Ph.D. Symposium on Service Computing), Salt Lake City, USA.

4. Towards Co-Design of Business Process and Information Systems Using Web Services. Paper presented at the 2007 Hawaii International Conference on System Sciences (HICSS), Big Island, USA.

3. Assessment of Web Services Specifications to Support Long-Running Conversations. Paper presented at the 2006 Workshop on Information Technologies and Systems (WITS), Milwaukee, USA.

2. A Study of Language-Action Perspective as a Theoretical Framework for Web Services. Paper presented at the 2006 International Ph.D. Symposium on Service-Oriented Computing, Chicago, USA.

1. Designing Enterprise Solutions with Web Services and Integration Patterns. Paper presented at the 2006 IEEE International Conference on Services Computing (SCC), Chicago, USA.

TEACHING

University of North Florida

Undergraduate Courses

- Introduction to Object Oriented Programming with Java (COP 2551) – Fall 2007, Spring 2008, Fall 2008, Fall 2009, Fall 2010, Fall 2013
- Information Processing: Requirements Identification and Specification (CGS 4308) – Spring 2008, 2009, 2010, 2013, 2014
- Web Access and Systems Design (COP 3855) – Fall 2008, Spring 2009, Fall 2009, Fall 2010, Spring 2011, Fall 2011, Fall 2012, Fall 2013, Fall 2014, Spring 2015, Fall 2015, Fall 2017, Spring 2018, 2020, 2022, 2023
- Information Systems Senior Project I (CIS 4327) – Fall 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022
- Information Systems Senior Project II (CIS 4328) – Spring 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019. 2020, 2021, 2022, 2023
- Expert Systems and Decision Support (CIS 4510 – Summer 2009, 2011, Fall 2012, Summer 2013 (Online)

- Expert Systems and Decision Support (CIS 4618) – Online – Summer 2015, 2016, 2017, 2018, 2020, 2022, 2023
- Introduction to Data Analytics (CAP 4784) – Online – Spring 2021
- Introduction to Artificial Intelligence (CAP 4630) – Summer 2009
- Introduction to Visual and Procedural Programming (COP 2010) – Fall 2011
- Gaming and Mobile Apps Capstone I (CIS 4593) – Fall 2011, 2013
- Gaming and Mobile Apps Capstone II (CIS 4594) – Spring 2012, 2014
- Systems Integration (CEN 4801) – Spring 2012
- TLO: Website & App Development for Community – Spring 2014

Undergraduate Directed Independent Studies

- Huy Nguyen – Digging into Human Rights Documents – Fall 2022
- Mahmoud Elbatouty – Florida Data Science for Social Good (FL-DSSG) – Summer 2022
- Victoria Leventman – Predictive Analytics and its Applications in the Investigation of Nursing Home Ratings – Spring 2022
- Lital Israel – Dashboard Development Using Tableau – Spring 2021
- Uche Onyibe – Topic Modeling for Nonprofits – Fall 2018
- Ryan Geddings – Profiling Nonprofit IT Research in Computer Database Digital Library – Summer 2018
- Uche Onyibe – Text Mining Platforms for Analyzing Nonprofit Documents – Spring 2018
- Chaylor Kern – Y4C Attendance Record Sheets Project – Fall 2017
- Molly Johnson – User Experience Design – Spring 2017
- Adam Hett and Molly Johnson – Web Systems Development – Summer 2016
- Rachel Bennet – XML Foundations and Encoding TEI-XML Documents – Spring 2016
- Krishna Glick – MEEQS: A Restaurant Rating Web App – Summer 2015
- Robert Goodman – Data Mining with Neural Networks – Spring 2015
- James Bradley Hamilton – Twitter Data Mining: insight into the #ows and #anonymous communities - Spring 2013
- Brian Castaneda – Symposium Voting Tracker System – Spring 2013
- Randall Grice – Cloud Computing and Grid Services – Summer 2012
- Thomas John - Applications and uses of the National Transit Dataset with Florida Transit Information System – Spring 2012
- Evan Sharp - Computer Generated Environments In Gaming – Spring 2012

Graduate Courses

- Graduate Research Experiences I – Spring 2021, 2022, Fall 2022,
- Graduate Research Experiences II – Fall 2021, Summer 2022, Spring 2023
- Data Analytics (CAP 6768) – Online – Fall 2019, 2020, 2021
- Web Engineering (CEN 6036) – Spring 2016, 2018, Online – Spring 2019
- User Experience Design (CAP 6100) – Online – Fall 2022
- Interface Design and Implementation (CAP 6100) – Fall 2014, 2015, 2016, 2017, 2018
- Introduction to Artificial Intelligence (CAP 5605) – Summer 2009
- Systems Integration (CEN 5805) – Spring 2012

Graduate Directed Independent Studies

- Joyner Johnson – Finding Insights in Florida Voter Participation – Fall 2021
- Payal Agarwal – Visualization of COVID-19 cases in USA using Tableau – Summer 2020
- Praveen Kurunthazha Veettil – COVID-19 Pandemic Data Analysis using Machine Learning – Summer 2020
- Hika Workneh – Topic Modeling of Information Systems Education Research – Summer 2020
- Prapti Burkul – Decision Trees Pipeline for Mortality Dataset – Spring 2020
- Sean Willison - Process Engineering: Bridging the Theory of Constraints – Summer 2019
- Amitabh Bhattacharya – Florida Data Science for Social Good (FL-DSSG) – Summer 2019
- Anusha Srialluri – Profiling Nonprofit Research in AIS Digital Library – Summer 2018
- Ethi Pahuja – Profiling Nonprofit Research in ScienceDirect Digital Library – Summer 2018
- Pavan S. Mudundi – Profiling Nonprofit Research in IEEE Digital Library – Summer 2018
- Raghu Talluri – Profiling Nonprofit Research in ACM Digital Library – Summer 2018
- Sushma Alchuru – Profiling Nonprofit Research in Engineering Village Digital Library – Summer 2018
- Vivekanand Madesi – Profiling Nonprofit Research in Springer Digital Library – Summer 2018
- Mareh Al-Sammarraie – Qualitative Analysis of the Collaborative Query Reformulation Behavior – Summer 2017
- Mareh Al-Sammarraie – Collaborative Information Seeking and Query Behavior – Spring 2016
- Iman Elshaar – Using Technology to Improve Reporting of Domestic Violence – Fall 2015
- Doaa H. Gamal – Business Intelligence and Big Data with focus on Network Mining – Fall 2013
- Sumona Balla – Experiential Studies in Computing – Summer 2013
- Anusha Srialluri – TLO Project: Website for Legal Rescue – Summer 2012
- Chirag Rana – Comparative Report on Service Choreography and Coordination Standard Specifications – Summer 2012

DISSERTATION/ THESIS COMMITTEES

M.S Thesis Chair

14. **Jacob M. Koza** (Spring 2019). Active Analytics: Suggesting Navigational Links to Users Based on Temporal Analytics Data. M.S. in Computing and Information Sciences, University of North Florida.

13. **Adetunji A. Olunuga** (Spring 2019). Profile Analysis of Mobile Application Security. M.S. in Computing and Information Sciences, University of North Florida.

12. **Christopher Travis LaValley** (Summer 2018). Holistic Model of Website Design Elements that Influence Trustworthiness. M.S. in Computing and Information Sciences, University of North Florida.

11. **Joshua Joiner** (Spring 2018). Automating CIRI Ratings of Human Rights Reports Using GATE. M.S. in Computing and Information Sciences, University of North Florida.

10. **Lucas B. Coffey** (Spring 2018). Assessing Ratio-based Fatigue Indexes using a Single Channel EEG. M.S. in Computing and Information Sciences, University of North Florida.

9. **Dishi Shrivastava** (Fall 2017). The Impact of Social Presence and User Experience on Gender Sensitive e-Tailing Websites. M.S. in Computing and Information Sciences, University of North Florida.

8. **Mareh Fakhir Al-Sammarraie** (Summer 2017). An Empirical Investigation of Collaborative Web Search Tool on Novice's Query Behavior. M.S. in Computing and Information Sciences, University of North Florida.

7. **Hibah A. Khalil** (Spring 2017). The Role of the Quality of a Website in Consumer Perception. M.S. in Computing and Information Sciences, University of North Florida.

6. **Doaa H. Gamal** (Spring 2017). Social Networks Influence Analysis. M.S. in Computing and Information Sciences, University of North Florida.

5. **William R. Carle II** (Spring 2016). Active Analytics: Adapting Web Pages Automatically Based on Analytics Data. M.S. in Computing and Information Sciences, University of North Florida.

4. **Mwaka Mahanga** (Spring 2015). Unknown Exception Handling Tool Using Humans as Agents. M.S. in Computing and Information Sciences, University of North Florida.

3. **Britto N. Arockiasamy** (Fall 2014). Trustworthiness of Web Services. M.S. in Computing and Information Sciences, University of North Florida.

2. **Chirag N. Rana** (Spring 2014). Enabling One-Phase Commit (1PC) Protocol for Web Service Atomic Transaction (WS-AT). M.S. in Computing and Information Sciences, University of North Florida.

1. **Enrique Caliz** (Spring 2010). Analysis of WS-CDL Specifications using Colored Petri Nets. M.S. Computer and Information Sciences, University of North Florida.

M.S Thesis Committee Member

14. **Lucas W. Welch** (Spring 2022). Measuring Vegetation Density in Marsh Grass Photographs Using Convolutional Neural Networks. M.S. in Computing and Information Sciences, University of North Florida.

13. **Mohammed Salman Khan** (Spring 2019). A Topic Modeling approach for Code Clone Detection. M.S. in Computing and Information Sciences, University of North Florida.

12. **Katharine C. Brown** (Fall 2018). A Consideration of Mason's Ethical Framework: The Importance of PAPA Factors in the 21st Century: A Seven-Year Study. M.S. in Computing and Information Sciences, University of North Florida.

11. **Nathan Wheeler** (Fall 2018). On the Effectiveness of an IOT - FOG - Cloud Architecture for a Real-World Application. M.S. in Computing and Information Sciences, University of North Florida.

10. **Larry D. Snedden** (Fall 2017). Improving Search Ranking Using a Composite Scoring Approach. M.S. in Computing and Information Sciences, University of North Florida.

9. **Jason Frier** (Spring 2017). Genetic Algorithms as a Viable Method of Obtaining Branch Coverage. M.S. in Computing and Information Sciences, University of North Florida.

8. **Chanchal Khatwani** (Spring 2017). Security Analysis of ECC Based Protocols. M.S. in Computing and Information Sciences, University of North Florida.

7. **Priyanka Dhoopa Harish** (Fall 2015). Towards Designing Energy-Efficient Secured Hashes. M.S. in Computing and Information Sciences, University of North Florida.

6. **Neha Vilas Soni** (Summer 2015). An Empirical Performance Analysis of IaaS Clouds with Cloudstone Web 2.0 Benchmarking Tool. M.S. in Computing and Information Sciences, University of North Florida.

5. **Jeffrey B. Gouge** (Summer 2015). A Targeted Denial of Service (DOS) Attack on Data Caching Networks. M.S. in Computing and Information Sciences, University of North Florida.

4. **Jaime Kaufman** (Fall 2014). A Hybrid Approach to Music Recommendation: Exploiting Collaborative Music Tags and Acoustic Features. M.S. in Computing and Information Sciences, University of North Florida.

3. **Lucas M. Downard** (Spring 2013). The Effect Overall Density Plays On Performance and Preference in a Windowed Environment. M.S. in Computing and Information Sciences, University of North Florida.

2. **Jim Littleton** (Spring 2012). ColorDots: An Intersection Analysis Resistant Graphical Password Scheme for the Prevention of Shoulder-surfing Attack. M.S. Computer and Information Sciences, University of North Florida.

1. **Pavan Kumar Potti** (Spring 2011). On The Design Web Services: SOAP vs. REST. M.S. Computer and Information Sciences, University of North Florida.

SERVICE

Center Leadership

- Co-Program Director for Florida Data Science for Social Good (FL-DSSG), since 2016

Advisory Board Representations

- UNF representative in the St. Johns County School District IT Council Board, since September 2015
  - o Chair of Transforming Teaching and Learning committee within the council

- Southern Association for Information Systems (SAIS) Chapter Board Member, since 2016
- Digital Humanities Initiative Advisory Council Member, 2015 - Present
- Advisory member for the 2016 Data and Technology Summit organized by the Nonprofit Center of Northeast Florida
- Advisory Board member of Eight Technologies, LLC

Outreach Activities

- Co-organizer for CodeforAwhile Programming Competition for High School Students 2021, 2022, 2023
- Co-organizer for NestforAwhile Programming Competition for College Students 2021, 2022
- Co-organizer for AI4Good Hackathon 2022
- Judge for 2023 The Energy Authority (TEA) Annual Hackathon, February 28, 2023, Atlantic Beach, FL
- Mentor for 2021 UNF MedNexus Innovation Challenge Pitch Competition for High School Students
- Mentor and Judge for 2020 Palm Coast Tech Beach Hackathon
- Mentor/Coach for 2015 and 2016 Jacksonville Startup Weekend organized by iStartJax

Professional

- Managing Editor for Journal of Southern Association of Information Systems (JSAIS), since 2017
- Executive Editor for Information Systems Frontiers (ISF), since 2017
- Coordinating Editor for Information Systems Frontiers (ISF), 2014 to 2017
- Organization Committee member for 2022 Learning & Doing Data for Good Conference
- Americas Conference on Information Systems (AMCIS) 2016 Emergent Research Forum (ERF) Co-Chair
- Publicity Chair for International Conference on Design Science Research in Information Systems and Technology (DESRIST) 2009, 2010, 2011
- Editorial Board member
  - Information Systems Education Journal (ISEDJ), since 2009
  - Journal of Information Systems Applied Research (JISAR), since 2012
  - Journal of Database Management (JDM) 2008, Special Issue on Service-oriented Computing
- Associate Editor for
  - International Conference on Information Systems (ICIS) 2012
  - European Conference on Information Systems (ECIS) 2013
- Program Committee member for
  - ACM SIGMIS Computer Personnel Research (CPR) Conference 2011, 2012, 2014, 2015, 2016
  - Design Science Research in Information Systems and Technology (DESRIST) 2009, 2014, 2015, 2016, 2017
  - IEEE Service Computing Conference (SCC) 2008, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2018, 2019
  - International Conference on Service Oriented Computing (ICSOC) 2006, 2007

- o ACM Symposium on Applied Computing (SCM), Special track on Middleware Engineering 2008
  - o IEEE International Workshop on Middleware Engineering (ME) 2009, 2010, 2011
  - o International Conference on Standardisation and Innovation in Information Technology (SIIT) 2020, 2021
- Grant proposal reviewer for
  - o National Science Foundation (NSF) CSforAll solicitation, 2017.
  - o Research Tools and Instruments Grants Program, Natural Sciences and Engineering Research Council of Canada, 2012
- Reviewer for
  - o Frontiers in Big Data 2021, 2023
  - o Computer Science Education 2021
  - o MIS Quarterly 2009, 2010, 2011, 2019, 2020
  - o Journal of the Association for Information Systems 2010, 2015, 2016, 2017
  - o The DATA BASE for Advances in Information Systems 2009, 2015, 2016
  - o AIS Transactions on Human-Computer Interaction 2010
  - o Journal of Database Management (JDM) 2007
  - o Software and Systems Modeling 2011
  - o International Journal of Information Technology and Management (IJITM) 2005
  - o International Conference on Information Systems (ICIS) 2004, 2007, 2008, 2009, 2010, 2013, 2015, 2016, 2018, 2019, 2021, 2023
  - o IEEE Service Computing Conference (SCC) 2005, 2007, 2020
  - o Americas Conference on Information Systems (AMCIS) 2008, 2009, 2010, 2011, 2019, 2023
  - o Design Science Research in Information Systems and Technology (DESRIST) 2011, 2019, 2020, 2022
  - o Hawaii International Conference on System Sciences (HICSS) 2008
  - o European Conference on Information Systems (ECIS) 2011, 2016, 2019, 2020, 2021
  - o European Journal on Information Systems (EJIS) 2015, 2016
  - o IEEE/IFIP International Conference on Dependable Systems and Networks, for the Dependable Computing and Communication Symposium (DCCS) track 2006
  - o Information Systems Frontier (ISF) 2011, 2015
  - o IEEE Transactions on Service Computing (TSC) 2012, 2014
  - o Pacific Asia Conference on Information Systems (PACIS) 2012
  - o ACM SIGMIS Computer Personnel Research (CPR) Conference 2013
  - o Information Systems and e-Business Management (ISeB) 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020
  - o Artificial Intelligence in Medicine 2014
  - o Focal Press Book Proposal Review 2014
  - o Southern Association of Information Systems (SAIS) 2015, 2016, 2017, 2018, 2022, 2023
  - o ACM Transactions on Management Information Systems (TMIS) 2015, 2017, 2018
  - o Production Planning & Control Journal 2016
  - o IEEE Transactions on Education (ToE) 2017
  - o Human Technology 2018
  - o Information Systems Journal 2018

- o   Association for Educational Communications and Technology (AECT) International Convention 2019, 2020, 2023
  - o   Conference on Information Systems Applied Research (CONISAR) 2018, 2019, 2020
  - o   International Society for Technology in Education (ISTE) EdTech Conference 2020
- Conference Session Chair
  - o   2023 Southern Association for Information Systems (SAIS) Conference, Session: 1B – IS in Society, Session 2C – Data and Analytics, Session 5A – Security and Privacy
  - o   2020 Southern Association for Information Systems (SAIS) Conference, Session: 2C – Governance, Project Management, & Strategy
  - o   2019 Southern Association for Information Systems (SAIS) Conference, Session: 2C – eBusiness, eCommerce, and Digital Commerce
  - o   2018 Southern Association for Information Systems (SAIS) Conference, Session: 2C – Security
  - o   2017 Southern Association for Information Systems (SAIS) Conference, Session: 5B – Business Analytics
  - o   2017 ACM SIGCSE Symposium, Session 11L: Transactions on Computing Education 2
  - o   2016 Southern Association for Information Systems (SAIS) Conference, Session: 3A – Social Presence Theories
  - o   2015 Southern Association for Information Systems (SAIS) Conference, Session: 1B – Trust and Credibility
  - o   2014 Information Systems Education Conference (ISECON), Session: Teaching cases and Abstracts
  - o   2011 ACM SIGMIS Computer Personnel Research (CPR), Session: IT Workforce Management II
  - o   2009 International Conference on Design Science Research in Information Systems and Technology (DESRIST), Session: Domain-Specific Design Research
  - o   2009 Workshop for e-Business (WeB), Session: Web Services & Architecture
  - o   2007 IEEE Service Computing Conference (SCC), Session: Research Session 10

Doctoral Dissertation Examiner

- University of KwaZulu-Natal, South Africa, 2023

University

- Department level
  - o   Graduate Program Committee, August 2010 – Present
  - o   Search Committee, August 2010 – August 2011, August 2012 – 2015, August 2016 – 2020, 2022
  - o   Promotion and Tenure Committee, August 2013 - Present
  - o   Diversity and Inclusion (DIVE-IN) Committee, April 2019 – Present
  - o   Curriculum Committee, August 2009 – August 2010, Fall 2021 – Spring 2022
  - o   FIS Distinguished Professorship Award Committee, Spring 2022
  - o   Chair of SoC Symposium Committee, January 2011 – April 2019
  - o   Chair of Assessment Committee, January 2013 – December 2013
  - o   Assessment Committee, January 2014 – August 2014
  - o   Scholarship Selection Committee, May 2012 – Present
  - o   Suspension Review Committee, August 2012 – August 2014

- o   Information Systems & Science Taskforce, August 2012 – August 2013, August 2015 – Present
  - o   Data Science Taskforce, August 2020 – Present
  - o   Information Technology Taskforce, August 2012 – August 2013
  - o   Chair of Computing Resources Committee, January – August 2009
  - o   Computing Resources Committee, January 2009 – August 2010
  - o   School of Computing Director Advisory Committee, January – August 2009
- College level
  - o   CCEC Selection Committee for Outstanding Graduate Teaching Award, August 2010 – December 2010, August 2011 – January 2012, August 2012 – December 2012
  - o   CCEC Selection Committee for Outstanding Undergraduate Teaching Award, August 2011 – January 2012
- University level
  - o   Campus Technology Committee, 2021 - 2023
  - o   AdHoc Teaching Evaluation Taskforce, 2019 – 2021
  - o   Outstanding Graduate Teaching Award Committee, January 2020 – March 2020
  - o   Outstanding Faculty Community Engaged Scholarship Award Selection Committee, 2014 – 2018
  - o   Undergraduate Studies Council, August 2012 – Present
  - o   University Technology Committee, October 2013 – 2018
  - o   CCBL Director Search Committee, May 2016 – August 2016, January 2019 – April 2019 (chair)
  - o   UNF Constitution Convention, October 2013 – April 2014
  - o   Adjuncts Affair Committee, August 2009 – August 2013
  - o   Space Committee, August 2012 – August 2013
  - o   Outstanding Faculty Service Award Selection Committee, January – April 2012
  - o   Research Committee, August 2008 – August 2010
  - o   Ad hoc Internet Presence CMS Gap Analysis Committee, August 2014 – December 2014

PROFESSIONAL AFFILIATIONS

- Member of Association of Information Systems (AIS), since 2003.
- Member of Institute of Electrical and Electronics Engineers (IEEE), since 2005.
- Member of Association of Information Technology Professionals, from 2008 to 2019.
- Member of Education Special Interest Group of Association of Information Technology Professionals (AITP), from 2008 to 2019.
- Member of Association for Computing Machinery (ACM), since 2010.
- Member of IEEE Computer Society, since 2011.
- Member of Phi Kappa Phi Honor Society, since 2017.