

# Intellectual Contributions

Kennesaw State University  
January 1, 2025 - December 31, 2025

## Department of Computer Science

Alexiou, Michail (Assistant Professor)

### **Refereed Journal Articles**

*Journal Article, Academic Journal*

Alexiou, M., Bourbakis, N. G. (2025). Kyrtos: A methodology for automatic deep analysis of graphic charts with curves in technical documents. *Pattern Recognition*, 157, 110930, .. Impact Factor: 7.5, <https://doi.org/10.1016/j.patcog.2024.110930>Peer Review - Refereed

### **Conference Proceedings**

*Conference Proceeding*

Deem, R., Goodman, G., Majeed, W., Khan, M. A. A. H., Alexiou, M. (2025). Brain Tumor Classifiers Under Attack: Robustness of ResNet Variants Against Transferable FGSM and PGD Attacks. *2025 IEEE 25th International Conference on Bioinformatics and Bioengineering (BIBE)*. IEEE. Peer Review - Refereed

*Conference Proceeding*

Dancy, T., Alexiou, M., Goodman, G. (2025). Exploration of Few-Shot Learning with the Constrained State-Preserved Extreme Learning Machine. *2025 IEEE 37th International Conference on Tools with Artificial Intelligence (ICTAI)* (pp. 567-574). IEEE. <https://doi.org/10.1109/ictai66417.2025.00083>Peer Review - Refereed

*Conference Proceeding*

Alexiou, M., Sharma, S., Mickelson, M., Mertoguno, S. J. (2025). Iteration, Mother of Transferability: A Study of Black-Box Iterative Adversarial Attacks Across CNNs and Vision Transformers. *2025 IEEE 37th International Conference on Tools with Artificial Intelligence (ICTAI)* (pp. 989-998). IEEE. <https://doi.org/10.1109/ictai66417.2025.00145>Peer Review - Refereed

*Conference Proceeding*

Katsoudas, P., Alexiou, M., Alamaniotis, M. (2025). A Preliminary Study on Extending the Apache Spark Framework for FPGA-Based Task Offloading. *2025 16th International Conference on Information, Intelligence, Systems & Applications (IISA)*. IEEE. Peer Review - Refereed

*Conference Proceeding*

Deem, R., Khan, M. A. A. H., Goodman, G., Alexiou, M. (2025). BrainDil: Enhanced and Efficient Brain Tumor Classification in MRI Images Using Dilated Convolution. *2025 16th International Conference on Information, Intelligence, Systems & Applications (IISA)*. IEEE. Peer Review - Refereed

*Conference Proceeding*

Sharma, S., Noh, J., Alexiou, M. (2025). Investigating the Transferability and Robustness of Adversarial Attacks Between Standard and Dilated CNN Architectures. *International Conference on Advanced Information Networking and Applications* (pp. C1--C1). Springer Nature. [https://doi.org/10.1007/978-3-031-87772-8\\_10](https://doi.org/10.1007/978-3-031-87772-8_10)Peer Review - Refereed

**Aygun, Ramazan (Professor)**

**Refereed Journal Articles**

*Journal Article, Academic Journal*

Boyapati, M., Aygun, R. (2025). BalancerGNN: Balancer Graph Neural Networks for Imbalanced Datasets: A Case Study on Fraud Detection. *Neural Networks*, 182, .. <https://doi.org/10.1016/j.neunet.2024.106926>Peer Review - Refereed

**Choi, Arthur Y. (Assistant Professor)**

**Conference Proceedings**

*Conference Proceeding*

Boyce, A., Choi, A. (2025). Anytime Compilation of Binary Neurons to OBDDS. *2025 IEEE 37th International Conference on Tools with Artificial Intelligence (ICTAI)* (pp. 1103-1109). IEEE. <https://doi.org/10.1109/ictai66417.2025.00161>Peer Review - Refereed

**Clincy, Victor A. (Professor)**

**Refereed Journal Articles**

*Journal Article, Academic Journal*

Clincy, V. A., Jackson, H. (2025). AI as a Study Aid: Using Artificial Intelligence to Learn Difficult Concepts in Computer Science. *Journal of Computing Sciences in Colleges*, .. Acceptance Rate: 48, <https://www.ccsc.org/publications/journals/CCSCRM2025Final.pdf>Peer Review - Refereed

**Conference Proceedings**

*Conference Proceeding*

Clincy, V. A., Carruthers, Z. (2025). *How Effective are Classical Cryptographic Protocols Against Early Quantum Decryption Attempts* (Number 2 ed., vol. Volume 41). IEEE ICECCME 2025. <https://ieeexplore.ieee.org/xpl/conhome/11277412/proceeding>Peer Review - Refereed

**Deng, Bobin (Assistant Professor)**

**Conference Proceedings**

*Conference Proceeding*

Nasif, K. F. A., Deng, B., Chen, L., Xie, Y., Teng, S., Li, J., Zhao, L., Alam, S. M. S., Dhar, N., Suo, K., Lo, D. C.-T. (2025). *AccelMD: A Self-adaptive AI-enabled Framework for Accelerating Molecular Dynamics Simulations*. The 37th IEEE International Conference on Tools with Artificial Intelligence (ICTAI 2025).Peer Review - Refereed

*Conference Proceeding*

Vu, L., Frank, M., Xu, H., Chen, S., Nguyen, T., He, J., Deng, B., Suo, K. (2025). *Assessing and Visualizing Completeness, Co-Coverage, and Scalability in Multivariate Time-Series*

*Data*. 44th IEEE International Performance Computing and Communications Conference (IPCCC 2025).Peer Review - Refereed

*Conference Proceeding*

Chen, L., Nasif, K. F. A., Yang, M., Niu, S., Deng, B., Xie, Y. (2025). *Automatic Molecular Dynamics Simulation with Binding Affinity Prediction Using Deep Learning*. 2025 IEEE 37th International Conference on Tools with Artificial Intelligence (ICTAI 2025).Peer Review - Refereed

*Conference Proceeding*

Elghazzali, Z., Zhao, C., Chen, K., Chen, L., Deng, B., Nasif, K. F. A., Xie, Y. (2025). *Multimodal Deep Learning for Alzheimer's Disease Classification: A Practical Fusion Framework for Clinical Deployment*. IEEE 37th International Conference on Tools with Artificial Intelligence (ICTAI 2025).Peer Review - Refereed

*Conference Proceeding*

Islam, M. R., Deng, B., Dhar, N., Nguyen, T., He, J., Shi, Y., Suo, K. (2025). *Characterizing and Understanding Energy Footprint and Efficiency of Small Language Model on Edges*. 22nd IEEE International Conference on Mobile Ad-Hoc and Smart Systems (MASS 2025).Peer Review - Refereed

*Conference Proceeding*

Dhar, N., Deng, B., Islam, M. R., Zhang, X., Nasif, K. F. A., Suo, K. (2025). *A Sparsity Predicting Approach for General Large Language Models via Activation Pattern Clustering*. Dresden: The 31st International European Conference on Parallel and Distributed Computing (Euro-Par 2025).Peer Review - Refereed

*Conference Proceeding*

Nguyen, M., Zhao, L., Deng, B., Wu, S. . *FL-SNNs: Benchmarking the Byzantine-Robustness of Uniquely-Shaped Surrogate Gradients*. 22nd IEEE International Conference on Mobile Ad-Hoc and Smart Systems (MASS 2025).Peer Review - Refereed

*Conference Proceeding*

Nguyen, M., Zhao, L., Deng, B., Wu, S. . *Sparsified Federated Learning with Spiking Neural Networks: Resistance Against Byzantine Attacks while Lowering Communication Traffics*. IEEE VTC 2025 Spring Conference.Peer Review - Refereed

**Gaines, Dylan C. (Assistant Professor)**

***Conference Proceedings***

*Conference Proceeding*

Gaines, D., Vertanen, K. (2025). *Adapting Large Language Models for Character-based Augmentative and Alternative Communication*. *Findings of the Association for Computational Linguistics: EMNLP 2025*. Association for Computational Linguistics.Peer Review - Refereed

**Haddad, Hisham M. (Professor)**

## **Conference Proceedings**

### *Conference Proceeding*

Reddy, R. S. P., He, J., Li, L., Haddad, H. (2025). *Survey on Design Mechanisms of Hybrid Chatbots in Academic Websites*. Louisville, KY, November 2025: Proceedings of the Information Systems and Computing Academic Professionals Conference (ISCAP). <https://iscap.us/proceedings/2025/authors.html>.Peer Review - Refereed

**He, Selena S. (Professor)**

## **Refereed Journal Articles**

### *Journal Article, Professional Journal*

Islam, M. M., Rao, S. P. R., He, J. (2025). A survey on deep learning techniques for image and video feature aggregation. *CAAI Artificial Intelligence Research*, 4(9150054), ., <https://www.sciopen.com/article/pdf/10.26599/AIR.2025.9150054.pdf>Peer Review - Refereed

### *Journal Article, Academic Journal*

Williams, C., Sakib, N., He, J., Tian, X. . Advancing Brain-Computer Interface Closed-Loop Systems for Neurorehabilitation: A Systematic Review of AI and Machine Learning Innovations in Biomedical Engineering. *JMIR Biomedical Engineering*, .Peer Review - Refereed

### *Journal Article, Academic Journal*

Razzak, R., Li, Y., Sokhadze, E., He, J. (2025). Stress and Driving Performance Evaluation through VR and Physiological Metrics: A Pilot Study. *Journal of Information Systems Applied Research and Analytics*, 18(2), 30-51, ., <https://jisara.org/2025-18/n2/JISARAv18n2p30.html>Peer Review - Refereed

### *Journal Article, Professional Journal*

Zhang, Y., He, J. (2025). Machine Learning-Guided Discovery of High-Entropy Perovskite Oxide Electrocatalysts via Oxygen Vacancy Engineering. *Wiley Small Journal*, 21(2501946), ., <https://onlinelibrary.wiley.com/doi/epdf/10.1002/sml.202501946>Peer Review - Refereed

### *Journal Article, Academic Journal*

Rezzak, R., Li, J., He, S., Jung, S., Mei, C., Huang, Y. (2025). Using Virtual Reality to Enhance Attention for Autistic Spectrum Disorder with Eye Tracking. *High-Confidence Computing*, .Peer Review - Refereed

## **Conference Proceedings**

### *Conference Proceeding*

Chou, L.-Y. A., Islam, M. M., He, J. (2025). *Quantum Convolutional Neural Networks in Injury Detection of 3D Computed Tomography Volumes*. IEEE BigData.Peer Review - Refereed

### *Conference Proceeding*

Vu, L., Frank, M., Xu, H., Chen, S., Nguyen, T., He, J., Deng, B., Suo, K. (2025). *Assessing and Visualizing Completeness, Co-Coverage, and Scalability in Multivariate Time-Series Data*. 44th IEEE International Performance Computing and Communications Conference (IPCCC 2025).Peer Review - Refereed

### *Conference Proceeding*

Islam, M. M., He, J. (2025). *QPolypNet: A Quantum-Inspired Deep Learning Model for Polyp Segmentation* (pp. 969-978). 2025 International Conference on Computer Vision. [https://openaccess.thecvf.com/content/ICCV2025W/CVAMD/html/Islam\\_QPolypNet\\_A\\_Quantum-Inspired\\_Deep\\_Learning\\_Model\\_for\\_Polyp\\_Segmentation\\_ICCVW\\_2025\\_paper.html](https://openaccess.thecvf.com/content/ICCV2025W/CVAMD/html/Islam_QPolypNet_A_Quantum-Inspired_Deep_Learning_Model_for_Polyp_Segmentation_ICCVW_2025_paper.html)Peer Review - Refereed

*Conference Proceeding*

Sanjana, S., Li, Y., He, J. (2025). *A Systematic Review of AI-Driven Interviewing Systems for Technical and Professional Skills* (n6438 ed., vol. 11, pp. 1-17). 2025 Proceedings of the ISCAP Conference. <https://iscap.us/proceedings/2025/>Peer Review - Refereed

*Conference Proceeding*

Islam, M. R., Deng, B., Dhar, N., Nguyen, T., He, J., Shi, Y., Suo, K. (2025). *Characterizing and Understanding Energy Footprint and Efficiency of Small Language Model on Edges*. 22nd IEEE International Conference on Mobile Ad-Hoc and Smart Systems (MASS 2025).Peer Review - Refereed

*Conference Proceeding*

Reddy, R. S. P., He, J., Li, L., Haddad, H. (2025). *Survey on Design Mechanisms of Hybrid Chatbots in Academic Websites*. Louisville, KY, November 2025: Proceedings of the Information Systems and Computing Academic Professionals Conference (ISCAP). <https://iscap.us/proceedings/2025/authors.html>.Peer Review - Refereed

*Conference Proceeding*

Adivi, S. R. R., Li, Y., Islam, M. M., He, J. (2025). *Psychophysiological Computational Modeling for Stress Management in VR Driving Simulation*. 11th International Conference on Virtual Reality.Peer Review - Refereed

**Islam, Kazi Aminul (Assistant Professor)**

***Refereed Journal Articles***

*Journal Article, Academic Journal*

Rogannagari, R. K., Islam, K. A. (2025). MTFM: Multi-Teacher Feature Matching for Cross-Dataset and Cross-Architecture Adversarial Robustness Transfer in Remote Sensing Applications. *Remote Sensing*, 18(1), 8, ., <https://doi.org/10.3390/rs18010008>Peer Review - Refereed

*Journal Article, Academic Journal*

Islam, K. A., Abul-Hassan, O., Zhang, H., Hill, V., Schaeffer, B., Zimmerman, R., Li, J. (2025). Ensemble Machine Learning Approaches for Bathymetry Estimation in Multi-Spectral Images. *Geomatics*, 5(3), 34, ., <https://doi.org/10.3390/geomatics5030034>Peer Review - Refereed

*Journal Article, Academic Journal*

Kwan, C., Ayhan, B., Stavola, A., Islam, K. A., Zhang, H., Li, J. (2025). A Fast Framework for Generating Radioactive Mixture Spectra and Its Application to Remote High-Performance Mixture Identification. *Electronics*, 14(8), 1688, ., <https://doi.org/10.3390/electronics14081688>Peer Review - Refereed

***Conference Proceedings***

*Conference Proceeding*

Rogannagari, R. K., Islam, K. A. (2025). Adversarial Robustness Using Transfer Learning Method: A Cost-Effective Approach. *2025 6th International Conference on Artificial Intelligence, Robotics and Control (AIRC)* (pp. 419-423). IEEE.  
<https://doi.org/10.1109/airc64931.2025.11077477>Peer Review - Refereed

**Islam, Rifatul (Assistant Professor)**

**Refereed Journal Articles**

*Journal Article, Academic Journal*

Ahmed, N., Wu, P., Huang, K., Jung, S., Rheem, H., Tan, G., Imani, M., Islam, R. (2025). Human Task Performance and Associated Internal States in Extended Reality: A Systematic Review of Cognitive, Psychophysiological, and Physiological Dimensions. *Frontiers in Virtual Reality*, 6, 1589256, ., Impact Factor: 3.6Peer Review - Refereed

**Conference Proceedings**

*Conference Proceeding*

Islam, R. . *Beyond Supervised Limits: Semi-Supervised Cybersickness Prediction from Physiological Signals with Minimal Labeled Data*. IEEE ISMAR 2025.Peer Review - Refereed

*Conference Proceeding*

Chen, R., Hong, S., Islam, R., Imani, M., Tan, G., Lan, T. (2025). Perception Graph for Cognitive Attack Reasoning in Augmented Reality. *Proceedings of the Twenty-sixth International Symposium on Theory, Algorithmic Foundations, and Protocol Design for Mobile Networks and Mobile Computing* (pp. 505--506).

*Conference Proceeding*

Wu, P., Ahmed, N., Huang, K., Islam, R., Lan, T., Tan, G., Imani, M. (2025). Personalized Bayesian Networks for Cybersickness Prediction in Virtual Reality. *Proceedings of the Twenty-sixth International Symposium on Theory, Algorithmic Foundations, and Protocol Design for Mobile Networks and Mobile Computing* (pp. 491--496).

*Conference Proceeding*

Islam, R. . *Probabilistic verification of cybersickness in virtual reality through Bayesian Networks*. Conference.Peer Review - Refereed

*Conference Proceeding*

Wu, P., Ahmed, N., Sarma, A., Huang, K., Islam, R., Li, B., Lan, T., Tan, G., Imani, M. (2025). Probabilistic verification of cybersickness in virtual reality through Bayesian Networks. *Proc. IEEE International Symposium on Mixed and Augmented Reality (ISMAR)*.

*Conference Proceeding*

Adhanom, I. B., Zielasko, D., Islam, R., Kim, G., Rosenberg, E. S. (2025). The Sixth Workshop on Immersive Sickness Prevention. *2025 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW)* (pp. 813--814).

*Conference Proceeding*

Islam, M. J., Islam, R. (2025). Towards Optimized Real-time Cybersickness Detection Framework Using Deep Learning for Standalone Virtual Reality Headsets. *2025 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW)* (pp. 1480--1481).

*Conference Proceeding*

Ahmed, N., Choi, T., Zhang, X., Islam, S., Islam, R. (2025). Towards Safer Mixed Reality with Auditory Warnings for Uncontrolled Indoor Settings. *2025 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW)* (pp. 307--309).

*Conference Proceeding*

Shadin, N. S., Ahmed, N., Hassan, M. M., Islam, R., Zhang, X. (2025). YouKnowWho: Interpretable Framework for Classifying the Gender from Behavioral Motion Data in Extended Reality (XR). *Proceedings of the Twenty-sixth International Symposium on Theory, Algorithmic Foundations, and Protocol Design for Mobile Networks and Mobile Computing* (pp. 485--490).

**Islam, Sahidul (Assistant Professor)**

***Conference Proceedings***

*Conference Proceeding*

Islam, S. . *Energy-Adaptive Checkpoint-Free Intermittent Inference for Low Power Energy Harvesting Systems*. ISQED.Invited

*Conference Proceeding*

Ahmed, N., Choi, T., Zhang, X., Islam, S., Islam, R. (2025). Towards Safer Mixed Reality with Auditory Warnings for Uncontrolled Indoor Settings. *2025 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW)* (pp. 307--309).

**Ji, Yiming (Professor)**

***Book Chapters***

*Book, Chapter in Scholarly Book-New*

Onisha, T. A., Walee, N. A., Fojude, M., Chen, L., Ji, Y. (2025). *Detecting Fake Accounts and Identifying Malicious URLs on Social Networks Using Deep Learning* (vol. 2254, pp. 68-80). Communications in Computer and Information Science, Springer Nature. [https://link.springer.com/chapter/10.1007/978-3-031-86637-1\\_6#citeas](https://link.springer.com/chapter/10.1007/978-3-031-86637-1_6#citeas)Peer Review - Refereed

*Book, Chapter in Scholarly Book-New*

Yavas, C. E., Krishna Das, J., Akpomedaye, B., Chen, L., Ji, Y. (2025). *Unlocking the Power of Machine Learning in Cybersecurity Forensics: Identifying Malicious Files* (vol. 2254, pp. 123-139). Security and Management and Wireless Networks. [https://link.springer.com/chapter/10.1007/978-3-031-86637-1\\_10#citeas](https://link.springer.com/chapter/10.1007/978-3-031-86637-1_10#citeas)Peer Review - Refereed

***Refereed Journal Articles***

*Journal Article, Academic Journal*

Yavas, C., Kim, J., CHen, L., Kadlec, C., Ji, Y. (2025). Exploring Predictive Modeling for Food Quality Enhancement: A Case Study on Wine. *Big Data and Cognitive Computing*, 9(3), 55, ., Impact Factor: 4.4, <https://www.mdpi.com/2504-2289/9/3/55>Peer Review - Refereed

***Conference Proceedings***

*Conference Proceeding*

Krisna Das, J., Elegbe, I., Coffie, L., Khadka, R., Chen, L., Ji, Y. (2025). *AI-Powered IT Project Management: Analyzing the Effectiveness of Advanced Project Management Tools to Ensure Project Efficiency*. SoutheastCon25. Peer Review - Refereed

### **Karakaya, Mahmut (Associate Professor)**

#### **Conference Proceedings**

##### *Conference Proceeding*

Suer, S., Karakas, A., Karakaya, M. (2025). *Image quality based collaborative learning for diabetic retinopathy detection*. Orlando, FL: SPIE Defense + Commercial Sensing. Peer Review - Refereed

##### *Conference Proceeding*

Karakaya, M. (2025). *Robust Iris Code Generation using Segmentation Networks for Off-angle Iris Images*. IEEE Int. Workshop on Biometrics and Forensics. Peer Review - Refereed

##### *Conference Proceeding*

Tebor, D., Karakaya, M. (2025). *Triplet loss based deep learning frameworks for off-angle iris recognition*. SPIE DCS - Pattern Recognition and Prediction XXXVI. Peer Review - Refereed

##### *Conference Proceeding*

Kota, J. S., Karakaya, M. (2025). *Improved Off-angle Iris segmentation using a novel distance-based loss function*. International Conference of the Biometrics Special Interest Group (BIOSIG). Peer Review - Refereed

##### *Conference Proceeding*

Oz, H., Aygun, H., Karakaya, M. (2025). *Comparison of Recognition Fusion Methods for Left and Right Off-angle Iris Images*. IEEE. Peer Review - Refereed

### **Khan, Md Abdullah Al Hafiz (Assistant Professor)**

#### **Refereed Journal Articles**

##### *Journal Article, Academic Journal*

Prasad, K., Khan, M. A. A. H., Pei, Y. (2025). Large language model enabled mental health app recommendations using structured datasets. *AIMS Press ACI journal*, ., <https://www.aimspress.com/article/id/68818167ba35de58686d9e25> Peer Review - Refereed

##### *Journal Article, Academic Journal*

Potluri, S. S., Khan, M. A. A. H., Pei, Y. (2025). Large language model enabled synthetic dataset generation for human-AI teaming in mental health assessment. *AIMS Press ACI journal*, ., <https://www.aimspress.com/article/id/68804441ba35de39deae2da6> Peer Review - Refereed

##### *Journal Article, Academic Journal*

Stigall, W. A., Nweke, F., Walker, H. N., Khan, M. A. A. H., Perry, S., Pei, Y., Thomas, D., Nandan, M. (2025). RECAP: Reinforced, Explainable LLM Classifier for Behavioral Health Analysis in Police Narratives. *AIMS Press ACI journal*, . Peer Review - Refereed

#### **Conference Proceedings**

*Conference Proceeding*

Azmee, A. A., Nweke, F., Khan, M. A. A. H., Pei, Y. (2025). *Human AI Collaboration Framework for Detecting Mental Illness Causes from Social Media*. IEEE CHASE. Peer Review - Refereed

*Conference Proceeding*

Muntakim, A., Potluri, S. S., Khan, M. A. A. H., Pei, Y. (2025). *Trust-Aware Human-AI Teaming Framework for Fake News Detection Using LLMs*. 24th IEEE International Conference on Machine Learning and Applications (ICMLA) 2025. Peer Review - Refereed

*Conference Proceeding*

Deem, R., Goodman, G., Majeed, W., Khan, M. A. A. H., Alexiou, M. (2025). *Brain Tumor Classifiers Under Attack: Robustness of ResNet Variants Against Transferable FGSM and PGD Attacks*. 2025 IEEE 25th International Conference on Bioinformatics and Bioengineering (BIBE). IEEE. Peer Review - Refereed

*Conference Proceeding*

Deem, R., Khan, M. A. A. H., Goodman, G., Alexiou, M. (2025). *BrainDil: Enhanced and Efficient Brain Tumor Classification in MRI Images Using Dilated Convolution*. 2025 16th International Conference on Information, Intelligence, Systems & Applications (IISA). IEEE. Peer Review - Refereed

*Conference Proceeding*

Deem, R., Khan, M. A. A. H., Goodman, G., Alexiou, M. (2025). *BrainDil: Enhanced and Efficient Brain Tumor Classification in MRI Images using Dilated Convolution*. IEEE CHASE. Peer Review - Refereed

**Other Intellectual Contributions**

*Published Abstract*

Jackson, J., Zuniga, J., Asonibare, A., Khan, M. A. A. H. (2025). In KSU Symposium (Ed.), *A Comparative Study of Multi-Domain Intent Classification Models Using Explainable Artificial Intelligence*. Marietta, Georgia: KSU Student Symposium (Fall 2025). <https://digitalcommons.kennesaw.edu/undergradsymposiumksu/fall2025/fall2025/53/> Peer Review - Refereed

*Published Abstract*

Dow, C., Zheng, Z., Khan, M. A. A. H. (2025). In KSU Symposium (Ed.), *A Study on the Comparative Effectiveness of News Article Embedding Methods for Extractive Summarization*. Marietta, Georgia: KSU Student Symposium (Fall 2025). <https://digitalcommons.kennesaw.edu/undergradsymposiumksu/fall2025/fall2025/31/> Peer Review - Refereed

*Published Abstract*

Kanala, D., Muthusamy, S., Khan, M. A. A. H. (2025). In KSU Symposium (Ed.), *Actionable Review Intelligence Using Aspect-Based Sentiment Analysis*. Marietta, Georgia: KSU Student Symposium (Fall 2025). <https://digitalcommons.kennesaw.edu/undergradsymposiumksu/fall2025/fall2025/130/> Peer Review - Refereed

*Published Abstract*

Malik, R., Kumari, M., Khan, M. A. A. H. (2025). In KSU Symposium (Ed.), *AI-Powered Image to Recipe Generator*. Marietta, Georgia: KSU Student Symposium (Spring 2025). <https://digitalcommons.kennesaw.edu/cgi/viewcontent.cgi?article=4043&context=undergradsymposiumksu> Peer Review - Refereed

*Published Abstract*

Sanchez II, H. L., Khan, M. A. A. H. (2025). In KSU Symposium (Ed.), *An NLP-Driven Hybrid System for Predicting Fruit Freshness Using Text Descriptions and Adaptive Questionnaires*. Marietta, Georgia: KSU Student Symposium (Fall 2025).  
<https://digitalcommons.kennesaw.edu/undergradsymposiumksu/fall2025/fall2025/47/PeerReview> - Refereed

*Published Abstract*

Knighten, M. K., Khan, M. A. A. H. (2025). In KSU Symposium (Ed.), *Autumn Lite LLM*. Marietta, Georgia: KSU Student Symposium (Fall 2025).  
<https://digitalcommons.kennesaw.edu/undergradsymposiumksu/fall2025/fall2025/38/PeerReview> - Refereed

*Published Abstract*

Tyler, J., Khan, M. A. A. H. (2025). In KSU Symposium (Ed.), *Detecting Relevance and Spam in Product Reviews*. Marietta, Georgia: KSU Student Symposium (Fall 2025).  
<https://digitalcommons.kennesaw.edu/undergradsymposiumksu/fall2025/fall2025/107/PeerReview> - Refereed

*Published Abstract*

Narapureddy, R. M., Palanisamy, M. P., Subramanian, S., Khan, M. A. A. H. (2025). In KSU Symposium (Ed.), *Efficient Summarization with Lightweight LLMs through Sparse Input Activation and Adaptive Prompting*. Marietta, Georgia: KSU Student Symposium (Fall 2025).  
<https://digitalcommons.kennesaw.edu/undergradsymposiumksu/fall2025/fall2025/126/PeerReview> - Refereed

*Published Abstract*

Mishra, P., Manne, B., Khan, M. A. A. H. (2025). In KSU Symposium (Ed.), *FutureFit Guidance System*. Marietta, Georgia: KSU Student Symposium (Fall 2025).  
<https://digitalcommons.kennesaw.edu/undergradsymposiumksu/spring2025/spring2025/273/PeerReview> - Refereed

*Published Abstract*

Madu, F., Khan, M. A. A. H. (2025). In KSU Symposium (Ed.), *GastroGenie: Revolutionizing Culinary Choices Using NLP and Computer Vision*. Marietta, Georgia: KSU Student Symposium (Spring 2025).  
<https://digitalcommons.kennesaw.edu/undergradsymposiumksu/spring2025/spring2025/329/PeerReview> - Refereed

*Published Abstract*

Lisasi, R., Wu, P., Khan, M. A. A. H. (2025). In KSU C-Day (Ed.), *GRM-012 (TCC) Transformer Embedded Synthetic Source Code Multiclass Classification*. Marietta, Georgia: KSU C-Day (Spring 2025).  
<https://digitalcommons.kennesaw.edu/cgi/viewcontent.cgi?article=1530&context=cdayPeerReview> - Refereed

*Published Abstract*

Gurung, R., Tkabladze, N., Khan, M. A. A. H. (2025). In KSU C-Day (Ed.), *GRM-050 Context-Aware Misinformation Detection Using Fine-Tuned BERT and BiLSTM with Attention*. Marietta, Georgia: KSU C-Day (Spring 2025).  
<https://digitalcommons.kennesaw.edu/cgi/viewcontent.cgi?article=1536&context=cdayPeerReview> - Refereed

*Published Abstract*

Ming, N., Challa, A., Edward John, S., Khan, M. A. A. H. (2025). In KSU C-Day (Ed.), *GRM-060 Abstractive Summarization of Informal Text: Fine-Tuning Transformers on Reddit Discussions*. Marietta, Georgia: KSU C-Day (Spring 2025).  
<https://digitalcommons.kennesaw.edu/cgi/viewcontent.cgi?article=1537&context=cdayPeerReview> - Refereed

*Published Abstract*

Knighten, M., Khan, M. A. A. H. (2025). In KSU C-Day (Ed.), *GRM-1145 Autumn Lite LLM*. Marietta, Georgia: KSU C-Day (Fall 2025).  
<https://digitalcommons.kennesaw.edu/cgi/viewcontent.cgi?article=1623&context=cdayPeerReview> - Refereed

*Published Abstract*

Tubbs, C., Raburnel, D., Khan, M. A. A. H. (2025). In KSU C-Day (Ed.), *GRM-20169 Proxy Recognition and Inclusive Scoring Method (PRISM): Evaluating Context-Dependent Bias in Large Language Models for Resume Screening*. Marietta, Georgia: KSU C-Day (Fall 2025).  
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Ward, K., Hernandez, E., Antony, T., Nweke, F., Azmee, A. A., Khan, M. A. A. H., Islam, K. A. (2025). In KSU Symposium (Ed.), *Human-AI Teaming for Academic Performance Analysis*. Marietta, Georgia: KSU Student Symposium (Spring 2025).  
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*Published Abstract*

Barron III, C., Khan, M. A. A. H. (2025). In KSU Symposium (Ed.), *Improved Recommendation System Based on Play Time*. Marietta, Georgia: KSU Student Symposium (Spring 2025).  
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*Published Abstract*

Penumaka, T., Juttiga, M., Muthyala, S. R., Khan, M. A. A. H. (2025). In KSU Symposium (Ed.), *Interactive Summarizer: Real-Time Personalized Document Summarization*. Marietta, Georgia: KSU Student Symposium (Fall 2025).  
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*Published Abstract*

Gatipon, J., Pfohl, C., Dejene, A., Khan, M. A. A. H. (2025). In KSU Symposium (Ed.), *Natural Language Classification of Job Acceptance Emails*. Marietta, Georgia: KSU Student Symposium (Fall 2025).  
[https://digitalcommons.kennesaw.edu/undergradsymposiumksu/fall2025/fall2025/112/Peer Review - Refereed](https://digitalcommons.kennesaw.edu/undergradsymposiumksu/fall2025/fall2025/112/Peer%20Review)

*Published Abstract*

Yellu, S., Buddharaju, A. K. V., Peddi, P. k., Khan, M. A. A. H. (2025). In KSU Symposium (Ed.), *Open-Domain Question Answering with Wikipedia and SQuAD*. Marietta, Georgia: KSU Student Symposium (Fall 2025).  
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*Published Abstract*

Raburnel, D., Tubbs, C., Khan, M. A. A. H. (2025). In KSU Symposium (Ed.), *PRISM (Proxy Recognition and Inclusion Scoring Method)*. Marietta, Georgia: KSU Student Symposium (Fall 2025).  
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Mangotra, S., Mamo, R., Yare, J., Khan, M. A. A. H. (2025). In KSU Symposium (Ed.), *Real Time Fallacy Detection*. Marietta, Georgia: KSU Student Symposium (Fall 2025).  
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*Published Abstract*

Gurung, R. N., Tkabladze, N., Khan, M. A. A. H. (2025). In KSU Symposium (Ed.), *Sign to Sentence: Translating Sign Languages Gestures into Fluent Natural Language Using NLP Techniques*. Marietta, Georgia: KSU Student Symposium (Fall 2025).  
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*Published Abstract*

Atunnise, O., Khan, M. A. A. H. (2025). In KSU Symposium (Ed.), *The Role of Artificial Intelligence in Mental Health: Opportunities, Challenges, and Ethical Considerations*. Marietta, Georgia: KSU Student Symposium (Spring 2025).  
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*Published Abstract*

Mamo, R., Khan, M. A. A. H. (2025). In KSU Symposium (Ed.), *Unsupervised Music Genre Clustering Using Contrastive Learning*. Marietta, Georgia: KSU Student Symposium (Spring 2025).  
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*Published Abstract*

Kris, P., Khan, M. A. A. H. (2025). In KSU C-Day (Ed.), *UR-001 Large language model enabled mental health app recommendations using structured datasets*. Marietta, Georgia: KSU C-Day (Spring 2025).  
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*Published Abstract*

Pederson, M., Khan, M. A. A. H. (2025). In KSU C-Day (Ed.), *UR-094 AIStudy: Using AI to Study AI*. Marietta, Georgia: KSU C-Day (Spring 2025).  
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*Published Abstract*

Barron III, C., Bryant, J., Khan, M. A. A. H. (2025). In KSU Symposium (Ed.), *Video Game Recommendation via NLP ML Model*. Marietta, Georgia: KSU Student Symposium (Fall 2025).  
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*Published Abstract*

Bijoux, C., Miller, T., Khan, M. A. A. H. (2025). In KSU Symposium (Ed.), *Wikipedia Question Answering Using SQuAD1 Dataset*. Marietta, Georgia: KSU Student Symposium (Fall 2025).  
<https://digitalcommons.kennesaw.edu/undergradsymposiumksu/fall2025/fall2025/12/PeerReview> - Refereed

**Lee, Ahyoung (Assistant Professor)**

***Refereed Journal Articles***

*Journal Article, Academic Journal*

Jamaludin, R. A., Lee, A. Y., Kim, C. S. (2025). Enhanced Quantum-Based DNA Sequence Alignment with Noise Handling and Error Detection. *IEEE Access*, .Peer Review - Refereed

*Journal Article, Professional Journal*

Mao, M., Ma, J., Lee, A. Y., Hong, M. (2025). Enhancing Fabric Detection and Classification Using YOLOv5 Models. *Journal of Engineering Proceedings*, .Peer Review - Refereed

***Non-Refereed Journal Articles***

*Journal Article, Academic Journal*

Mhatre, J., Lee, A. Y., Lee, H. (2025). Signal Attenuation in LoRaWAN: A Survey of Modeling Techniques and Experimental Evaluation. *Available at SSRN 5885758*, .

***Conference Proceedings***

*Conference Proceeding*

Mhatre, J., Lee, A. Y. (2025). *Tracking Reference Signal Periodicity and Energy Consumption: Trade-offs in 5G Networks*. IEEE 35th International Telecommunication Networks and Applications Conference (ITNAC).Peer Review - Refereed

*Conference Proceeding*

Cabral, M., Fuller, A., Kinyanjui, G., Lee, A. Y. (2025). *AI-Driven Self-Optimizing Networks for Integrated LoRaWAN and 5G in Next-Generation IoT Systems*. In 2025 IEEE Opportunity Research Scholars Symposium (ORSS).Peer Review - Refereed

*Conference Proceeding*

Tadimarr, B. R., Lee, A. Y. (2025). *IoT-Based Real-Time Water Quality Assessment with Predictive Analytics*. In 2025 IEEE Opportunity Research Scholars Symposium (ORSS).Peer Review - Refereed

*Conference Proceeding*

Nagy, T., Nguyen, J., Lanum, M., Claypool, W., Nguyen, M., Usher, R., Lee, A. Y., Thain, W. E., Lee, H. (2025). *Reconfigurable Polarization with a Dual Probe-Fed Patch Antenna*. In 2025 IEEE Opportunity Research Scholars Symposium (ORSS). Peer Review - Refereed

*Conference Proceeding*

Karumanchi, K. P., Mhatre, J., Lee, A., Lee, H. L. (2025). *AI/ML-Based Water Quality Monitoring Mobile App for Predicting E. coli in Surface Waters*. The IEEE Conference on the 18th International Conference on Ubiquitous Information Management and Communication (IMCOM 2025). <https://www.ipccc.org/> Peer Review - Refereed

**Lee, Sanghoon (Assistant Professor)**

**Refereed Journal Articles**

*Journal Article, Academic Journal*

Koganti, S. C., Yellu, S., Yun, J., Lee, S. (2025). Task-Ready PanNuke and NuCLS Datasets: Reorganization, Synthetic Data Generation, and Experimental Evaluation. *IEEE Access*, 13, 125275-125286, ., Acceptance Rate: 30, Impact Factor: 3.6, <https://ieeexplore.ieee.org/document/11080424> Peer Review - Refereed

**Conference Proceedings**

*Conference Proceeding*

Lee, S., Siri, Y., Lee, S., Cheong, J.-H., Kim, M., Park, S., Hwang, T. H. (2025). *Investigating Spatial Patterns of Tumor and Stroma in Gastric and Colorectal Cancer for Survival Prediction*. The IEEE-EMBS International Conference on Biomedical and Health Informatics (BHI). <https://ieeexplore.ieee.org/document/11269533> Peer Review - Refereed

*Conference Proceeding*

Koganti, S. C., Lee, S. (2025). *A Brief Experimental Survey of Semantic Image Segmentation on PanNuke and NuCLS datasets* (pp. 243 - 246). International Conference of Semantic Computing. <https://ieeexplore.ieee.org/document/11036284> Peer Review - Refereed

*Conference Proceeding*

Yellu, S., Koganti, S. C., Elghazzali, H., Zhao, Y., Williamson, D. F.K., Lee, S. (2025). *Evaluation of hand-crafted features with mask images obtained from PanNuke dataset using Bayesian optimization and machine learning models* (pp. 97 - 104). International Conference of Semantic Computing. <https://ieeexplore.ieee.org/document/11036300> Peer Review - Refereed

*Conference Proceeding*

Yaganti, V., Koganti, S. C., Yellu, S., Lee, S. (2025). *Color Normalization Analysis for Semantic Image Segmentation on Histopathology Images* (pp. 171 - 176). IEEE SoutheastCon. <https://ieeexplore.ieee.org/abstract/document/10971522> Peer Review - Refereed

**Lo, Dan C. T. (Professor)**

**Refereed Journal Articles**

*Journal Article, Academic Journal*

Chen, M.-L., Hsieh, K.-L., Hsieh, S.-L., Hsieh, M.-C., Lo, D. C.-T., Hsu, J.-L. (2025). Barriers to Using Mobile App-Based Cognitive Testing in Older Adults with Probable Alzheimer's Disease: A Qualitative Study. *Brain Sciences*, 15(5), 464, ..  
<https://doi.org/10.3390/brainsci15050464>Peer Review - Refereed

**Conference Proceedings**

*Conference Proceeding*

Nasif, K. F. A., Deng, B., Chen, L., Xie, Y., Teng, S., Li, J., Zhao, L., Alam, S. M. S., Dhar, N., Suo, K., Lo, D. C.-T. (2025). *AccelMD: A Self-adaptive AI-enabled Framework for Accelerating Molecular Dynamics Simulations*. The 37th IEEE International Conference on Tools with Artificial Intelligence (ICTAI 2025).Peer Review - Refereed

*Conference Proceeding*

Nasif, K. F., Deng, B., Chen, L., Xie, Y., Teng, S., Li, J., Zhao, L., Alam, S. M., Dhar, N., Suo, K., Lo, D. C.-T. (2025). *AccelMD: A Self-Adaptive AI-Enabled Framework for Accelerating Molecular Dynamics Simulations*. *2025 IEEE 37th International Conference on Tools with Artificial Intelligence (ICTAI)* (pp. 1420-1427). IEEE.  
<https://doi.org/10.1109/ictai66417.2025.00205>Peer Review - Refereed

*Conference Proceeding*

Bharti, S., Lo, D. C.-T., Shahriar, H. (2025). *Quantum Knowledge Graph: Leveraging QNLP for Semantic Relationship Modeling*. *2025 IEEE 49th Annual Computers, Software, and Applications Conference (COMPSAC)* (pp. 1514-1517). IEEE International Conference on Computers, Software, and Applications.  
<https://doi.org/10.1109/compsac65507.2025.00192>Peer Review - Refereed

*Conference Proceeding*

Vyas, A., Lo, D. C.-T., Zhang, X. (2025). *A Comparison of Classical and Quantum Neural Network Algorithms for Malware Detection* (pp. 134-144). ACM Southeast Conference.Peer Review - Refereed

*Conference Proceeding*

Alam, M. S., Patel, Y. R., Gurram, Y., Zhao, C., Lo, D. C.-T. . *A Hybrid Approach of Data Mining and Deep Learning for Network Intrusion Detection* (pp. 215-220). ACM Southeast Conference.Peer Review - Refereed

*Conference Proceeding*

Kolla, S., Lo, D. C.-T., Zhao, C. (2025). *Staged Multi-Omics Data Classification for Breast Cancer Diagnosis* (pp. 233-238). ACM Southeast Conference.Peer Review - Refereed

*Conference Proceeding*

Shi, Y., Lo, D. C.-T., Chi, H., Polisetty, A., Suo, K., Nguyen, T. (2025). *Three-stage Learning with Portable Online Hands-on Labware for Quantum-based Machine Learning Development*. 56th ACM Technical Symposium on Computer Science Education.  
<https://doi.org/10.1145/3641555.3705269>Peer Review - Refereed

on Computer Science Education (SIGCSE TS).Peer Review - Refereed

**Other Intellectual Contributions**

*Technical Report*

Lo, E., Lo, D. C.-T. (2025). *Exoplanet Detection Using Machine Learning Models Trained on Synthetic Light Curves*. arXiv.Editorial Review

**Majeed, Waqas (Lecturer)**

**Conference Proceedings**

*Conference Proceeding*

Deem, R., Goodman, G., Majeed, W., Khan, M. A. A. H., Alexiou, M. (2025). Brain Tumor Classifiers Under Attack: Robustness of ResNet Variants Against Transferable FGSM and PGD Attacks. *2025 IEEE 25th International Conference on Bioinformatics and Bioengineering (BIBE)*. IEEE. Peer Review - Refereed

**Nguyen, Tu (Associate Professor)**

**Non-Refereed Journal Articles**

*Journal Article, Academic Journal*

Nguyen, D. H. P., Hunt, E., Horton, D. J., Nguyen, T., Liu, B.-H. (2025). Maximizing Entanglement Routing Rate in Quantum Networks: Approximation Algorithms. *IEEE Transactions on Network Science and Engineering*, 12(3), 1939-1952, .

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*Conference Proceeding*

Vu, L., Frank, M., Xu, H., Chen, S., Nguyen, T., He, J., Deng, B., Suo, K. (2025). *Assessing and Visualizing Completeness, Co-Coverage, and Scalability in Multivariate Time-Series Data*. 44th IEEE International Performance Computing and Communications Conference (IPCCC 2025). Peer Review - Refereed

*Conference Proceeding*

Palanisamy, I., Nguyen, H., Hunt, E., Horton, D., Tukkugudam, D., Nguyen, T. (2025). Enhancing Fidelity in NISQ Computers via Crosstalk-Optimized Gate Decomposition. *2025 IEEE International Conference on Quantum Computing and Engineering (QCE)* (vol. 01, pp. 2064-2073).

*Conference Proceeding*

Hunt, E., Nguyen, H., Tukkugudam, D., Horton, D., Nguyen, T. (2025). Hybrid and Quantum Graph Algorithms via Quantum Array Search: Applications to Hamiltonian Paths and Path Counting. *2025 IEEE International Conference on Quantum Computing and Engineering (QCE)* (vol. 01, pp. 249-258).

*Conference Proceeding*

Hunt, E., Liu, B.-H., Nguyen, T., Shi, Y., Suo, K. (2025). *Minimizing Cost in Bistatic Radar Placement for Belt Coverage* (pp. 1-6). 2025 International Conference on Software, Telecommunications and Computer Networks (SoftCOM). Peer Review - Refereed

*Conference Proceeding*

Islam, M. R., Deng, B., Dhar, N., Nguyen, T., He, J., Shi, Y., Suo, K. (2025). *Characterizing and Understanding Energy Footprint and Efficiency of Small Language Model on Edges*. 22nd IEEE International Conference on Mobile Ad-Hoc and Smart Systems (MASS 2025). Peer Review - Refereed

*Conference Proceeding*

Shi, Y., Lo, D. C.-T., Chi, H., Polisetty, A., Suo, K., Nguyen, T. (2025). *Three-stage Learning with Portable Online Hands-on Labware for Quantum-based Machine Learning*

*Development*. 56th ACM Technical Symposium on Computer Science Education.  
<https://doi.org/10.1145/3641555.3705269>Peer Review - Refereed

## **Noh, Jiho (Assistant Professor)**

### **Book Chapters**

#### *Book, Chapter in Scholarly Book-New*

Sharma, S., Noh, J., Alexiou, M. S. (2025). Investigating the Transferability and Robustness of Adversarial Attacks Between Standard and Dilated CNN Architectures. *Lecture Notes on Data Engineering and Communications Technologies* (pp. 113-126). Springer Nature Switzerland. [https://doi.org/10.1007/978-3-031-87772-8\\_10](https://doi.org/10.1007/978-3-031-87772-8_10)Editorial Review

### **Non-Refereed Journal Articles**

#### *Journal Article, Academic Journal*

Atay, Z., Morrisett, A., Noh, J., Anderson, A., Lee, J. H. (2025). Emerging Mental Health Challenges in Construction Industry through Web Crawling. *Journal of Engineering, Project, and Production Management*, 15(5), 1, .

### **Conference Proceedings**

#### *Conference Proceeding*

Sharma, S., Noh, J., Alexiou, M. (2025). Investigating the Transferability and Robustness of Adversarial Attacks Between Standard and Dilated CNN Architectures. *International Conference on Advanced Information Networking and Applications* (pp. C1--C1). Springer Nature. [https://doi.org/10.1007/978-3-031-87772-8\\_10](https://doi.org/10.1007/978-3-031-87772-8_10)Peer Review - Refereed

#### *Conference Proceeding*

Ming, N., Sharma, S., Noh, J. (2025). *YouLeQD: Decoding the Cognitive Complexity of Questions and Engagement in Online Educational Videos from Learners' Perspectives* (pp. 105-109). IEEE 2025 19th International Conference on Semantic Computing (ICSC). <https://doi.org/10.1109/icsc64641.2025.00020>Peer Review - Refereed

## **North, Sarah M. (Principal Lecturer)**

### **Refereed Journal Articles**

#### *Journal Article, Academic Journal*

Hamzi, M., Ezeobi, E., North, S. M., Stachura, E., North, M. (2025). Fractal Applications and Generation: A Concise Descriptive Exploration. *International Management Review Journal*, 21(2), 36-54, ., Kennesaw State UniversityPeer Review - Refereed

#### *Journal Article, Academic Journal*

Blain, M., North, M., North, S. M. (2025). Exploring and Analyzing Students' Financial Perceptions and Trends in Higher Education Using a Dynamic Data Visualization Dashboard. *International Management Review Journal*, 21(2), 28-35, ., Kennesaw State UniversityPeer Review - Refereed

#### *Journal Article, Academic Journal*

North, S. M., Wilson, L., Dang, T., Napshin, S., Richardson, R., North, M., Garofalo, D. (2025). Measuring and Decoding Emotion and Attention: An Experimental Model toward

Evolving Innovative Adaptive Pedagogical Methods. *International Journal of Education and Research*, 13(2), 1-12, .Peer Review - Refereed

## **Ojo, Femi (Clinical Assistant Professor)**

### **Books**

#### *Book, Article/Case*

Ojo, F., Guntupalli, S. (2025). Machine Learning-Guided Dynamic Sorting Algorithm Selection. *Applied Mathematics and Sciences: An International Journal (MathSJ)* (3rd ed., vol. 12, pp. 7). AIRCC Publishing Corporation.  
<https://airccse.com/mathsj/papers/12325mathsj02.pdf> Editorial Review

#### *Book, Article/Case*

Sreekanth, D., Gopi, S., Ojo, F. (2025). RagaGEN: Fine-Tuning MusicGen Transformer Models for the Generation of Indian Classical Raga Melodies. *International Journal of Music Science, Technology and Art (IJMSTA)* (1st ed., vol. 7, pp. 57-67). Music Academy "Studio Musica". [https://www.ijmsta.com/Vol\\_7\\_1\\_Papers/IJMSTA\\_Paper\\_6.pdf](https://www.ijmsta.com/Vol_7_1_Papers/IJMSTA_Paper_6.pdf) Peer Review - Refereed

### **Conference Proceedings**

#### *Conference Proceeding*

Ojo, F., Mafo, H. N. D. (2025). Literature Reviews: AI-Enabled Digital Biomarkers for Early Detection and Personalized Intervention in Diabetes with Heart Failure as a Secondary Endpoint. *2025 IEEE International Conference on Bioinformatics and Biomedicine (BIBM)*. IEEE International Conference on Bioinformatics and Biomedicine (BIBM). Peer Review - Refereed

## **Parakh, Abhishek (Professor)**

### **Refereed Journal Articles**

#### *Journal Article, Academic Journal*

Jha, N., Parakh, A., Subramaniam, M. (2025). Multi-photon 3-Stage QKD for Practical Quantum Networks. *Infocommunications Journal*, XVII(2), .Peer Review - Refereed

### **Conference Proceedings**

#### *Conference Proceeding*

Parakh, A., Subramaniam, M. (2025). *AI Agents Assisted Platform for Secure Quantum-Classical Networking Education* (pp. 127-133). 26th ACM Annual Conference on Cybersecurity & Information Technology Education, ACM SIGCITE '25. Peer Review - Refereed

#### *Conference Proceeding*

Mangotra, S., Parakh, A., Subramaniam, M. (2025). *QUINTET: A Platform for Quantum Internet Education and Training* (pp. 1-5). IEEE Frontiers in Education Conference (FIE). Peer Review - Refereed

#### *Conference Proceeding*

Jha, N., Parakh, A., Subramaniam, M. (2025). *Towards a quantum-classical augmented network* (13391st ed., vol. 133910A). Quantum Computing, Communication, and Simulation V, SPIE. Peer Review - Refereed

**Pei, Yong (Professor)**

***Refereed Journal Articles***

*Journal Article, Academic Journal*

Prasad, K., Khan, M. A. A. H., Pei, Y. (2025). Large language model enabled mental health app recommendations using structured datasets. *AIMS Press ACI journal*, ., <https://www.aimspress.com/article/id/68818167ba35de58686d9e25> Peer Review - Refereed

*Journal Article, Academic Journal*

Potluri, S. S., Khan, M. A. A. H., Pei, Y. (2025). Large language model enabled synthetic dataset generation for human-AI teaming in mental health assessment. *AIMS Press ACI journal*, ., <https://www.aimspress.com/article/id/68804441ba35de39deae2da6> Peer Review - Refereed

*Journal Article, Academic Journal*

Stigall, W. A., Nweke, F., Walker, H. N., Khan, M. A. A. H., Perry, S., Pei, Y., Thomas, D., Nandan, M. (2025). RECAP: Reinforced, Explainable LLM Classifier for Behavioral Health Analysis in Police Narratives. *AIMS Press ACI journal*, . Peer Review - Refereed

***Conference Proceedings***

*Conference Proceeding*

Azmeel, A. A., Nweke, F., Khan, M. A. A. H., Pei, Y. (2025). *Human AI Collaboration Framework for Detecting Mental Illness Causes from Social Media*. IEEE CHASE. Peer Review - Refereed

*Conference Proceeding*

Muntakim, A., Potluri, S. S., Khan, M. A. A. H., Pei, Y. (2025). *Trust-Aware Human-AI Teaming Framework for Fake News Detection Using LLMs*. 24th IEEE International Conference on Machine Learning and Applications (ICMLA) 2025. Peer Review - Refereed

**Perry, Sharon H. (Lecturer)**

***Refereed Journal Articles***

*Journal Article, Academic Journal*

Stigall, W. A., Nweke, F., Walker, H. N., Khan, M. A. A. H., Perry, S., Pei, Y., Thomas, D., Nandan, M. (2025). RECAP: Reinforced, Explainable LLM Classifier for Behavioral Health Analysis in Police Narratives. *AIMS Press ACI journal*, . Peer Review - Refereed

**Raavi, Manohar (Assistant Professor)**

***Refereed Journal Articles***

*Journal Article, Academic Journal*

Raavi, M., Khan, Q., Wuthier, S., Chandramouli, P., Balytskyi, Y., Chang, S.-Y. (2025). Security and Performance Analyses of Post-Quantum Digital Signature Algorithms and Their TLS and PKI Integrations. *Cryptography*, 9(2), 38, ., <https://doi.org/10.3390/cryptography9020038>Peer Review - Refereed

*Journal Article, Academic Journal*

Raavi, M., Ramasamy, A., Chirumamilla, P., Kumari, M. (2025). Block Design-Based Key Agreement for Group Data Sharing in Cloud Computing. *IJRSET*, 14(1), .Peer Review - Refereed

### **Conference Proceedings**

*Conference Proceeding*

Beck, S., Fulton, S., Scott, J., Raavi, M. (2025). Improving Wireless Security Research: Cost-Effective Detection of Wireless Charging Vulnerabilities. *18th ACM Conference on Security and Privacy in Wireless and Mobile Networks* (pp. 224-229). ACM. <https://doi.org/10.1145/3734477.3734721>Peer Review - Refereed

## **Shi, Yong (Associate Professor)**

### **Conference Proceedings**

*Conference Proceeding*

Hunt, E., Liu, B.-H., Nguyen, T., Shi, Y., Suo, K. (2025). *Minimizing Cost in Bistatic Radar Placement for Belt Coverage* (pp. 1-6). 2025 International Conference on Software, Telecommunications and Computer Networks (SoftCOM).Peer Review - Refereed

*Conference Proceeding*

Islam, M. R., Deng, B., Dhar, N., Nguyen, T., He, J., Shi, Y., Suo, K. (2025). *Characterizing and Understanding Energy Footprint and Efficiency of Small Language Model on Edges*. 22nd IEEE International Conference on Mobile Ad-Hoc and Smart Systems (MASS 2025).Peer Review - Refereed

*Conference Proceeding*

Shi, Y., Lo, D. C.-T., Chi, H., Polisetty, A., Suo, K., Nguyen, T. (2025). *Three-stage Learning with Portable Online Hands-on Labware for Quantum-based Machine Learning Development*. 56th ACM Technical Symposium on Computer Science Education. <https://doi.org/10.1145/3641555.3705269>Peer Review - Refereed

## **Suo, Kun (Associate Professor)**

### **Conference Proceedings**

*Conference Proceeding*

Nasif, K. F. A., Deng, B., Chen, L., Xie, Y., Teng, S., Li, J., Zhao, L., Alam, S. M. S., Dhar, N., Suo, K., Lo, D. C.-T. (2025). *AccelMD: A Self-adaptive AI-enabled Framework for Accelerating Molecular Dynamics Simulations*. The 37th IEEE International Conference on Tools with Artificial Intelligence (ICTAI 2025).Peer Review - Refereed

*Conference Proceeding*

Vu, L., Frank, M., Xu, H., Chen, S., Nguyen, T., He, J., Deng, B., Suo, K. (2025). *Assessing and Visualizing Completeness, Co-Coverage, and Scalability in Multivariate Time-Series*

*Data*. 44th IEEE International Performance Computing and Communications Conference (IPCCC 2025).Peer Review - Refereed

*Conference Proceeding*

Hunt, E., Liu, B.-H., Nguyen, T., Shi, Y., Suo, K. (2025). *Minimizing Cost in Bistatic Radar Placement for Belt Coverage* (pp. 1-6). 2025 International Conference on Software, Telecommunications and Computer Networks (SoftCOM).Peer Review - Refereed

*Conference Proceeding*

Islam, M. R., Deng, B., Dhar, N., Nguyen, T., He, J., Shi, Y., Suo, K. (2025). *Characterizing and Understanding Energy Footprint and Efficiency of Small Language Model on Edges*. 22nd IEEE International Conference on Mobile Ad-Hoc and Smart Systems (MASS 2025).Peer Review - Refereed

*Conference Proceeding*

Dhar, N., Deng, B., Islam, M. R., Zhang, X., Nasif, K. F. A., Suo, K. (2025). *A Sparsity Predicting Approach for General Large Language Models via Activation Pattern Clustering*. Dresden: The 31st International European Conference on Parallel and Distributed Computing (Euro-Par 2025).Peer Review - Refereed

*Conference Proceeding*

Shi, Y., Lo, D. C.-T., Chi, H., Polisetty, A., Suo, K., Nguyen, T. (2025). *Three-stage Learning with Portable Online Hands-on Labware for Quantum-based Machine Learning Development*. 56th ACM Technical Symposium on Computer Science Education. <https://doi.org/10.1145/3641555.3705269>Peer Review - Refereed

**Tomitaka, Asahi (Assistant Professor)**

***Refereed Journal Articles***

*Journal Article, Academic Journal*

Chu, D., Tomitaka, A. (2025). Machine Learning-Based Prediction Models for Magnetic Hyperthermia. *IEEE Transactions on Magnetics*, 61(9), 1-6, ., Acceptance Rate: 30%, <https://doi.org/10.1109/tmag.2025.3530264>Peer Review - Refereed

*Journal Article, Academic Journal*

Davis, A. M., Tomitaka, A. (2025). Machine Learning-Based Quantification of Lateral Flow Assay Using Smartphone-Captured Images. *Biosensors*, 15(1), 19, ., Impact Factor: 5.6, <https://doi.org/10.3390/bios15010019>Peer Review - Refereed

**Xie, Zongxing (Assistant Professor)**

***Refereed Journal Articles***

*Journal Article, Academic Journal*

Deng, C., Duan, Y., Jin, X., Chang, H., Tian, Y., Liu, H., Wang, Y., Gao, k., Zou, H. P., jin, Y., Xiao, Y., Wu, S., Xie, Z., Lyu, W., He, S., Cheng, L., Wang, H., Zhuang, J. (2025). Deconstructing the ethics of large language models from long-standing issues to new-emerging dilemmas: a survey. *AI and Ethics*, 5(5), 4745-4771, ., <https://doi.org/10.1007/s43681-025-00797-3>Peer Review - Refereed

*Journal Article, Academic Journal*

Shrestha, S., Xu, H., Xie, Z., Seo, D., Joe, Y., Kim, W., Li, Y. . KDLLM: Copyright-Preserving LLM based on Knowledge Distillation. *Tsinghua Science and Technology*, .Peer Review - Refereed

### **Conference Proceedings**

#### *Conference Proceeding*

Ashik, J., Xie, Z., Chen, Y., Xu, C., Li, H. (2025). Language-Agnostic Speech Biomarker Exploration for Early Dementia Screening. *2025 IEEE 21st International Conference on Body Sensor Networks (BSN)* (pp. 1-4). IEEE.  
<https://doi.org/10.1109/bsn66969.2025.11337743>Peer Review - Refereed

#### *Conference Proceeding*

Sakib, N., Rahat, M. F., Hasan, M. M., Xie, Z. (2025). Optimizing IoMT Security Using Machine Learning: A Use Case-Based Scoping Review Toward Smart and Connected Health. *Proceedings of the ACM/IEEE International Conference on Connected Health: Applications, Systems and Engineering Technologies* (pp. 371-376). ACM.  
<https://doi.org/10.1145/3721201.3724412>Peer Review - Refereed

#### *Conference Proceeding*

Wu, P., Dong, Y., Xu, C., Geil, M., Akintomide, M., Zhang, X., Xie, Z. (2025). Wireless Sensing of Gait for Neurodegenerative Disease Assessment: A Scoping Review. *Proceedings of the 3rd International Workshop on Human-Centered Sensing, Modeling, and Intelligent Systems* (pp. 58-63). ACM. <https://doi.org/10.1145/3722570.3726893>Peer Review - Refereed

#### *Conference Proceeding*

He, L., Xie, Z., Ye, F. (2025). How Much Can We Salvage in Disrupted RF Vital Signs Monitoring? A Measurement Study of Post-processing. *2025 IEEE International Radar Conference (RADAR)* (pp. 1-6). 2025 IEEE International Radar Conference (RADAR).  
<https://doi.org/10.1109/radar52380.2025.11031685>Peer Review - Refereed

## **Zhang, Xinyue (Assistant Professor)**

### **Refereed Journal Articles**

#### *Journal Article, Academic Journal*

Ordóñez, P., Xie, Y., Zhang, X., Xie, Y., Acosta, S., Guitierrez, I. (2025). SPADE: Superpixel Adjacency Driven Embedding for Three-Class Melanoma Segmentation. *Algorithms*, Volume 18(Issue 9), ., <https://www.mdpi.com/1999-4893/18/9/551>Peer Review - Refereed

#### *Journal Article, Academic Journal*

Akintomide, M., Zhang, X., Iwuagwu, L., Ramos, M. (2025). Experiences and Support Needs of Informal Caregivers in Managing Behavioral Symptom of Dementia. *OBM Geriatrics*, 9(2), 306, ., <https://www.lidsen.com/journals/geriatrics/geriatrics-09-02-306>Peer Review - Refereed

#### *Journal Article, Professional Journal*

Ju, K., Zhong, H., Zhang, X., Qin, X., Pan, M. (2025). Quantum Computing Catalyzes Future Quantum Networks: Efficiency and Inherent Privacy. *IEEE Network*, ., Impact Factor: 6.8Peer Review - Refereed

## **Conference Proceedings**

### *Conference Proceeding*

Ahmed, N., Choi, T., Zhang, X., Islam, S., Islam, R. (2025). Towards Safer Mixed Reality with Auditory Warnings for Uncontrolled Indoor Settings. *2025 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW)* (pp. 307--309).

### *Conference Proceeding*

Shadin, N. S., Ahmed, N., Hassan, M. M., Islam, R., Zhang, X. (2025). YouKnowWho: Interpretable Framework for Classifying the Gender from Behavioral Motion Data in Extended Reality (XR). *Proceedings of the Twenty-sixth International Symposium on Theory, Algorithmic Foundations, and Protocol Design for Mobile Networks and Mobile Computing* (pp. 485--490).

### *Conference Proceeding*

Zhong, H., Zhang, X., Wang, H., Yu, S., Wang, Y., Pan, M. (2025). *Enhanced Local Differential Privacy Protection against Crosstalk Attacks in Quantum Computing*. IEEE International Conference on Quantum Computing and Engineering (QCE'25).Peer Review - Refereed

### *Conference Proceeding*

Dhar, N., Deng, B., Islam, M. R., Zhang, X., Nasif, K. F. A., Suo, K. (2025). *A Sparsity Predicting Approach for General Large Language Models via Activation Pattern Clustering*. Dresden: The 31st International European Conference on Parallel and Distributed Computing (Euro-Par 2025).Peer Review - Refereed

### *Conference Proceeding*

Cummings, A., Olaniran, M., Zhang, X., Adewuyi, M. (2025). *RAG Pipeline for Domain Specific Applications: A case study in Disseminating Dementia Care Practices*. IEEE/ACM conference on Connected Health: Applications, Systems and Engineering Technologies (CHASE). <https://ieeexplore.ieee.org/document/11121134>Peer Review - Refereed

### *Conference Proceeding*

Vyas, A., Lo, D. C.-T., Zhang, X. (2025). *A Comparison of Classical and Quantum Neural Network Algorithms for Malware Detection* (pp. 134-144). ACM Southeast Conference.Peer Review - Refereed

### *Conference Proceeding*

Akaybicen, F., Cummings, A., Iwuagwu, L., Zhang, X., Adewuyi, M. (2025). *A Machine Learning Approach for Emergency Detection in Medical Scenarios Using Large Language Models*. International Symposium on Intelligent Computing and Networking (ISICN 2025).Peer Review - Refereed

### *Conference Proceeding*

Shadin, N. S., Zhang, X. . *FedKDShap: Enhancing Federated Learning via Shapley Values Driven Knowledge Distillation on Non-IID Data*. The Web Conference 2025, International Workshop on Federated Foundation Models.Peer Review - Refereed

**Zhao, Chen (Assistant Professor)**

## **Refereed Journal Articles**

*Journal Article, Academic Journal*

Mu, N., Yang, H., Zhao, C. (2025). An Uncertainty-Aware Dynamic Decision Framework for Progressive Multi-Omics Integration in Classification Tasks. *Computer Methods and Programs in Biomedicine*, .Peer Review - Refereed

*Journal Article, Academic Journal*

Toyli, A., Shaik, A., Zhao, C., Chen, Q.-H., Sha, Q., Zhou, W. (2025). The heart-brain axis: unraveling the interconnections between cardiovascular and Alzheimer's diseases. *Frontiers in Cardiovascular Medicine*, .Peer Review - Refereed

*Journal Article, Academic Journal*

Zhu, F., Zhang, Y., Liang, G., Nan, J., Li, Y., Han, C., Sun, D., Wang, Z., Zhao, C., Zhou, W., He, J., Xu, Y., Cheang, I., Xu, Z., Zhou, Y., Zhou, W. (2025). Diagnosis of Pulmonary Hypertension by Integrating Multimodal Data with a Hybrid Graph Convolutional and Transformer Network. *Journal of Imaging Informatics in Medicine*, .Peer Review - Refereed

*Journal Article, Academic Journal*

Wei, D., Guo, H., Zhang, H., Zhao, C., Li, S., Zhao, Y., He, X. . PGDPNN: Prior-information generation and distribution prediction Neural Network for Fluorescence Molecular Tomography Reconstruction. *Optics Express*, ., Acceptance Rate: 68.2%, Impact Factor: 3.2Peer Review - Refereed

*Journal Article, Academic Journal*

Zhao, C., Xu, Z., Baral, P., Esposito, M., Zhou, W. (2025). Multi-graph Graph Matching for Coronary Artery Semantic Labeling. *Pattern Recognition*, ., Acceptance Rate: 30%Peer Review - Refereed

*Journal Article, Academic Journal*

Huang, H., Qiu, L., Yang, S., Li, L., Nan, J., Li, Y., Han, C., Zhu, F., Zhao, C., Zhou, W. . Vision Transformer-based Multimodal Feature Fusion Network for Lymphoma Segmentation on PET/CT Image. *Medical Physics*, ., Impact Factor: 4.2Editorial Review

*Journal Article, Public or Trade Journal*

Larsena, K., Zhuo, H., Zhao, C., Zhang, X., Sha, Q., Mesquita, C. T., Paez, D., Garcia, E. V., Zou, J., Peix, A., Zhou, W. (2025). A new method using deep learning to predict the response to cardiac resynchronization therapy. *Journal of Imaging Informatics in Medicine*, ., Impact Factor: 4.4Peer Review - Refereed

*Journal Article, Academic Journal*

Liu, X., Xu, R., Zhao, C. (2025). AGFI-GAN: An Attention-Guided and Feature-Integrated Watermarking Model Based on Generative Adversarial Network Framework for Secure and Auditable Medical Imaging Application. *Electronics*(ISSN: 2079-9292), ., Impact Factor: 2.6Peer Review - Refereed

*Journal Article, Academic Journal*

Aili, T., Hung, G.-U., Zhao, C., Sha, Q., Pai-Yi, C., Zhou, W. (2025). Comparison of cerebral technetium-99m-ethyl cysteinate dimer perfusion in patients with dementia with Lewy bodies and Parkinson's disease dementia. *Nuclear Medicine Communications*, 46(3), 218-222, ., Impact Factor: 1.3, [https://journals.lww.com/nuclearmedicinecomm/abstract/2025/03000/comparison\\_of\\_cerebral\\_techneium\\_99m\\_ethyl.4.aspx](https://journals.lww.com/nuclearmedicinecomm/abstract/2025/03000/comparison_of_cerebral_techneium_99m_ethyl.4.aspx)Peer Review - Refereed

## **Conference Proceedings**

*Conference Proceeding*

Elghazzali, Z., Zhao, C., Chen, K., Chen, L., Deng, B., Nasif, K. F. A., Xie, Y. (2025). *Multimodal Deep Learning for Alzheimer's Disease Classification: A Practical Fusion Framework for Clinical Deployment*. IEEE 37th International Conference on Tools with Artificial Intelligence (ICTAI 2025).Peer Review - Refereed

*Conference Proceeding*

Zhang, F., Zhang, J., Zhao, C., My, N. (2025). *PMA-Net: Parallel Mixed Attention Network for Predicting Intracranial Aneurysm Rupture Risk*. IEEE 37th International Conference on Tools with Artificial Intelligence (ICTAI).Peer Review - Refereed

*Conference Proceeding*

Kang, Y., Zhao, C. (2025). *Staged Multi-view Data Classification using Uncertainty Quantification*. IEEE 37th International Conference on Tools with Artificial Intelligence (ICTAI).Peer Review - Refereed

*Conference Proceeding*

Nahid, E., Zhao, C., Amirgholy, M., Zheng, D., Xu, H. . *Privacy-Preserving Multi-Source Data-Driven Optimization for Intelligent EV Charging*. IEEE International Conference on Systems, Man, and Cybernetics.Peer Review - Refereed

*Conference Proceeding*

Alam, M. S., Patel, Y. R., Gurrarn, Y., Zhao, C., Lo, D. C.-T. . *A Hybrid Approach of Data Mining and Deep Learning for Network Intrusion Detection* (pp. 215-220). ACM Southeast Conference.Peer Review - Refereed

*Conference Proceeding*

Kolla, S., Lo, D. C.-T., Zhao, C. (2025). *Staged Multi-Omics Data Classification for Breast Cancer Diagnosis* (pp. 233-238). ACM Southeast Conference.Peer Review - Refereed

**Other Intellectual Contributions**

*Online Community*

Huang, Y., Zhao, C. . *TimeSformer-Based Federated Domain Adaptation for Multi-Site Automatic Left Ventricular Segmentation and Quantification on Gated Myocardial Perfusion SPECT Images*. Symposium of Student Scholars.  
<https://digitalcommons.kennesaw.edu/undergradsymposiumksu/fall2024/fall2024/177/Invited>

## Department of Information Technology

**Anand, Vijay (Associate Professor)**

### ***Refereed Journal Articles***

### ***Other Intellectual Contributions***

*Invited Department of Defense Conference*

Anand, V., Bolton, N., Trout, K., Perry, J., Bai, J. (2025). *Active Defense with an Adversarial Mindset*. UC2 - DoD. Peer Review - Refereed

**Choi, Taeyeong (Assistant Professor)**

### ***Conference Proceedings***

*Conference Proceeding*

Ahmed, N., Choi, T., Zhang, X., Islam, S., Islam, R. (2025). Towards Safer Mixed Reality with Auditory Warnings for Uncontrolled Indoor Settings. *2025 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW)* (pp. 307--309).

*Conference Proceeding*

Mamo, R., Choi, T. (2025). CA-Cut: Crop-Aligned Cutout for Data Augmentation to Learn More Robust Under-Canopy Navigation. *2025 European Conference on Mobile Robots (ECMR)* (pp. 1-6). IEEE. <https://doi.org/10.1109/ecmr65884.2025.11163018> Peer Review - Refereed

**Dakshit, Sagnik (Assistant Professor)**

### ***Non-Refereed Journal Articles***

*Journal Article, Academic Journal*

Dakshit, S., Prabhakaran, B. (2025). Ambient Intelligence in Immersive Realities. *IEEE MultiMedia*, ., <https://doi.org/10.1109/MMUL.2025.3590111>

### ***Conference Proceedings***

*Conference Proceeding*

Dakshit, S., Dakshit, S., Prabhakaran, B. (2025). Effect of Sampling Rate on ECG Deep Learning Classifiers. *2025 IEEE 13th International Conference on Healthcare Informatics (ICHI)* (pp. 304-314). IEEE. <https://doi.org/10.1109/ichi64645.2025.00043>

*Conference Proceeding*

Venugopal, V., Dakshit, S. (2025). Attentiveness in Virtual Reality Based on Body Joint Positions. *2025 IEEE International Conference on Artificial Intelligence and eXtended and Virtual Reality (AIxVR)* (pp. 376-381). IEEE. <https://doi.org/10.1109/aixvr63409.2025.00070>

**Gu, Huayue (Assistant Professor)**

**Conference Proceedings**

*Conference Proceeding*

Gu, H. (2025). *AdaOrb: Adapting In-Orbit Analytics Models for Location-aware Earth Observation Tasks*. IEEE International Conference on Pervasive Computing and Communications (PerCom).Peer Review - Refereed

*Conference Proceeding*

Gu, H. (2025). *LACE: Loss-Aware Constellation Design for Global-Scale Entanglement Distribution*. IEEE International Conference on Mobile Ad-Hoc and Smart Systems (MASS).Peer Review - Refereed

*Conference Proceeding*

Gu, H. (2025). *Space Booking: Enabling Performance-Critical Applications in Broadband Satellite Networks*. IEEE International Conference on Distributed Computing Systems (ICDCS).Peer Review - Refereed

*Conference Proceeding*

Gu, H., Yu, R., Li, Z., Wang, X., Xue, G. (2025). *QuESat: Satellite-Assisted Quantum Internet for Global-Scale Entanglement Distribution*. *IEEE INFOCOM 2025 - IEEE Conference on Computer Communications* (pp. 1-10). IEEE.  
<https://doi.org/10.1109/infocom55648.2025.11044649>Peer Review - Refereed

*Conference Proceeding*

Gu, H., Li, Z., Wang, X., Yang, D., Xue, G., Yu, R. (2025). *Mi-Co: Models and Algorithms for Cost-efficient Entanglement Distribution in the Quantum Internet*. *2025 International Conference on Quantum Communications, Networking, and Computing (QCNC)* (pp. 339-346). IEEE. <https://doi.org/10.1109/qcnc64685.2025.00060>Peer Review - Refereed

**Le, Linh T. (Part-Time Assistant Professor)**

**Conference Proceedings**

*Conference Proceeding*

Pandey, P., Le, L., Wu, S., Tian, X. . *An Investigation of Data Granularity in RAG Pipelines for Personalized Medicine*. BigData 2025 Special Symposiums/Sessions.Peer Review - Refereed

*Conference Proceeding*

Pandey, P., Le, L., Wu, S., Tian, X. . *An Investigation of Data Granularity in RAG Pipelines for Personalized Medicine*. BigData 2025.Peer Review - Refereed

*Conference Proceeding*

Muller, R., Xie, Y., Le, L., Wu, S. (2025). *Dynamic Knowledge Elicitation: Leveraging Student Feedback For Improved Language Model Distillation*. Proceedings of 2025 International Joint Conference on Neural Networks (IJCNN).  
<https://ieeexplore.ieee.org/document/11227292>Peer Review - Refereed

**Li, Lei (Professor)**

### **Conference Proceedings**

#### *Conference Proceeding*

Reddy, R. S. P., He, J., Li, L., Haddad, H. (2025). *Survey on Design Mechanisms of Hybrid Chatbots in Academic Websites*. Louisville, KY, November 2025: Proceedings of the Information Systems and Computing Academic Professionals Conference (ISCAP). <https://iscap.us/proceedings/2025/authors.html>.Peer Review - Refereed

### **Li, Zhigang (Associate Professor)**

### **Conference Proceedings**

#### *Conference Proceeding*

Lei, N., Zhao, Z., Li, Z., Tian, X. (2025). *A Review of Theoretical Guidance, Design Approaches, and Evaluation Methods in K-12 Artificial Intelligence (AI) Curriculum Design*. ISCAP Conference 2025.Peer Review - Refereed

#### *Conference Proceeding*

Tan, Z. E., Tian, X., Li, Z. (2025). *Generative AI-Powered Cybersecurity Threats: A Growing Concern*. AMCIS 2025.Peer Review - Refereed

#### *Conference Proceeding*

Patel, A., Tian, X., Li, Z. (2025). ASSESSING BCI APPLICATIONS IN EDUCATION: THE CORRELATION BETWEEN STUDENT ATTENTION AND PERFORMANCE. *NSF REU*. SAIS 2025.Peer Review - Refereed

### **Peltsverger, Svetlana B. (Professor)**

### **Conference Proceedings**

#### *Conference Proceeding*

Miedema, D., Taipalus, T., Ajanovski, V. V., Alawini, A., Goodfellow, M., Liut, M., Peltsverger, S. B., Young, T. (2025). Data Systems Education: Curriculum Recommendations, Course Syllabi, and Industry Needs. *2024 Working Group Reports on Innovation and Technology in Computer Science Education* (pp. 95–123). New York, NY, USA: Association for Computing Machinery. <https://doi.org/10.1145/3689187.3709609>

### **Pouriyeh, Seyedamin (Associate Professor)**

### **Refereed Journal Articles**

#### *Journal Article, Academic Journal*

Liyuan, L., Pouriyeh, S., Zhou, Y., Dehbozorgi, N. (2025). Beyond One-Size-Fits-All: An AI-Driven Approach for Personalized Quizzes Using Clustering and ChatGPT. *International Journal of Information and Education Technology*, .Peer Review - Refereed

#### *Journal Article, Academic Journal*

Nasajpour, M., Pouriyeh, S., Meimandi Parizi, R., Han, M., Mosaiyebzadeh, F., Xie, Y., Liu, L., Batista, D. M. (2025). Advances in Application of Federated Machine Learning for Oncology and Cancer Diagnosis. *Information*, 16(6), 487, ., <https://doi.org/10.3390/info16060487>Peer Review - Refereed

*Journal Article, Academic Journal*

Nasajpour, M., Pouriye, S., Meimandi Parizi, R., Han, M., Mosaiyebzadeh, F., Liu, L., Xie, Y., Batista, D. M. (2025). Federated Learning in Smart Healthcare: A Survey of Applications, Challenges, and Future Directions. *Electronics*, 14(9), 1750, ., <https://doi.org/10.3390/electronics14091750>Peer Review - Refereed

### **Conference Proceedings**

*Conference Proceeding*

Mutala, V. S., Pouriye, S., Xie, Y., Han, M., Basile, I., Sannino, G. (2025). Enhancing Alzheimer's Diagnosis Through Spontaneous Speech Recognition: Deep Learning Approach with Data Augmentation. *2025 IEEE Symposium on Computers and Communications (ISCC)* (pp. 1-6). IEEE. <https://doi.org/10.1109/iscc65549.2025.11325956>

*Conference Proceeding*

Bhargav Mutala, V. S., Pouriye, S., Meimandi Parizi, R., Xie, Y., Santopaolo, A., Basile, I., Sannino, G. (2025). Enhancing Alzheimer's Disease Detection Using LLM-Generated Synthetic Data and Multi-Level Embeddings. *2025 International Joint Conference on Neural Networks (IJCNN)* (pp. 1-7). IEEE. <https://doi.org/10.1109/ijcnn64981.2025.11229368>

### **Saha, Shumit (Assistant Professor)**

#### **Refereed Journal Articles**

*Journal Article, Academic Journal*

Sarker, F., Ripan, R. C., Chowdhury, M. H., Islam, A. N., Rahman, M., Islam, S., Saha, S., Mamun, K. A. (2025). Stroke Prevalence and Risk Factors in Rural Communities Within a Resource-Constrained South Asian Setting: Population-Based Study of 1.3 Million Individuals. *JMIR Public Health and Surveillance*, 11, e46122-e46122, ., <https://doi.org/10.2196/46122>Peer Review - Refereed

*Journal Article, Academic Journal*

Velmovitsky, P., Keown-Stoneman, C., J Pfisterer, K., Hews-Girard, J., Saliba, J., Saha, S., Patten, S., King, N., Duffy, A., Pham, Q. (2025). Development of a Recommendation Engine to University Student Mental Health Support Aligned With Stepped Care: Longitudinal Cohort Study. *Journal of Medical Internet Research*, 27, e72669, ., <https://doi.org/10.2196/72669>Peer Review - Refereed

*Journal Article, Academic Journal*

Saha, S., Ross, H., Velmovitsky, P. E., Wang, C. X., Vishram-Nielsen, J. K., Manlhiot, C., Wang, B., Cafazzo, J. A. (2025). Machine learning enhanced expert system for detecting heart failure decompensation using patient reported vitals and electronic health records. *Scientific Reports*, 15(1), ., <https://doi.org/10.1038/s41598-025-16376-9>Peer Review - Refereed

### **Sakib, Nazmus (Assistant Professor)**

#### **Refereed Journal Articles**

*Journal Article, Academic Journal*

Williams, C., Sakib, N., He, J., Tian, X. . Advancing Brain-Computer Interface Closed-Loop Systems for Neurorehabilitation: A Systematic Review of AI and Machine Learning Innovations in Biomedical Engineering. *JMIR Biomedical Engineering*, .Peer Review - Refereed

### **Non-Refereed Journal Articles**

*Journal Article, Academic Journal*

Shaik, M. A., Anik, F. I., Hasan, M. M., Chakravarty, S., Ramos, M., Rahman, M. A., Ahamed, S. I., Sakib, N. (2025). Advancing Remote Monitoring for Patients With Alzheimer Disease and Related Dementias: Systematic Review. *JMIR aging*, 8(1), e69175, .

### **Tao, Xu (Assistant Professor)**

#### **Refereed Journal Articles**

*Journal Article, Academic Journal*

Tao, X. (2026). AgriSmart: An IoT-enabled framework for agricultural resource optimization. *Elsevier Computer Communication*, ., Impact Factor: 4.3Peer Review - Refereed

### **Tian, Shirley (Associate Professor)**

#### **Refereed Journal Articles**

*Journal Article, Academic Journal*

Williams, C., Sakib, N., He, J., Tian, X. . Advancing Brain-Computer Interface Closed-Loop Systems for Neurorehabilitation: A Systematic Review of AI and Machine Learning Innovations in Biomedical Engineering. *JMIR Biomedical Engineering*, .Peer Review - Refereed

#### **Conference Proceedings**

*Conference Proceeding*

He, Y., Tian, X., Li, W., Qin, L., He, W. (2025). *Leveraging Social Media Insights to Enhance Cybersecurity Entrepreneurship Education*. Nashville, TN: ICIS 2025. [https://aisel.aisnet.org/treos\\_icis2025/3](https://aisel.aisnet.org/treos_icis2025/3)Peer Review - Refereed

*Conference Proceeding*

Pandey, P., Le, L., Wu, S., Tian, X. . *An Investigation of Data Granularity in RAG Pipelines for Personalized Medicine*. BigData 2025 Special Symposiums/Sessions.Peer Review - Refereed

*Conference Proceeding*

Yalla, J. P., Ding, S., Bahng, M., Tian, X., Li, H., Chen, Y. (2025). *Understanding Retail Planograms through Virtual Reality-based Shopper Shelf Perception Analytics*. ACM Symposium on Virtual Reality Software and Technology (VRST) 2025.Peer Review - Refereed

*Conference Proceeding*

Lei, N., Zhao, Z., Li, Z., Tian, X. (2025). *A Review of Theoretical Guidance, Design Approaches, and Evaluation Methods in K-12 Artificial Intelligence (AI) Curriculum Design*. ISCAP Conference 2025. Peer Review - Refereed

*Conference Proceeding*

Pandey, P., Le, L., Wu, S., Tian, X. . *An Investigation of Data Granularity in RAG Pipelines for Personalized Medicine*. BigData 2025. Peer Review - Refereed

*Conference Proceeding*

Tan, Z. E., Tian, X., Li, Z. (2025). *Generative AI-Powered Cybersecurity Threats: A Growing Concern*. AMCIS 2025. Peer Review - Refereed

*Conference Proceeding*

Patel, A., Tian, X., Li, Z. (2025). ASSESSING BCI APPLICATIONS IN EDUCATION: THE CORRELATION BETWEEN STUDENT ATTENTION AND PERFORMANCE. *NSF REU*. SAIS 2025. Peer Review - Refereed

**Troiano, Giovanni M. (Assistant Professor)**

***Non-Refereed Journal Articles***

*Journal Article, Academic Journal*

Alsebayel, G., Troiano, G. M., Gunawan, J., Saksono, H., Hartevelde, C. (2025). "An Ad Posing as Medical Advice": User Accounts of Dark UX in FemTech mHealth Apps. *Proceedings of the ACM on Human-Computer Interaction*, 9(5), 1--34, .

*Journal Article, Academic Journal*

Robles, G., Pons, G., Escobar-Morales, D., Hartevelde, C., Troiano, G. M. (2025). Dr. Scratch 2.0 (CT4ALL): Advanced Modes and Rubrics for Assessing Computational Thinking in Scratch Projects. *SoftwareX*, 32, 102359, .

*Journal Article, Academic Journal*

Troiano, G. M., Abdollahi, A., Cassidy, M., Puttick, G., Machado, T., Hartevelde, C. (2025). Leveling the Computational Playing Field: Inquiring about Factors Predicting Computational Thinking in Constructionist Game-Based Learning. *Computers & Education*, 105347, .

***Conference Proceedings***

*Conference Proceeding*

Troiano, G. M., Cassidy, M., Escobar-Morales, D., Pons, G., Abdollahi, A., Robles, G., Puttick, G., Hartevelde, C. (2025). CT4ALL: Towards Putting Teachers in the Loop to Advance Automated Computational Thinking Metric Assessments in Game-Based Learning. *Proceedings of the 2025 CHI Conference on Human Factors in Computing Systems* (pp. 1--23).

**Valero de Clemente, Maria A. (Associate Professor)**

***Refereed Journal Articles***

*Journal Article, Academic Journal*

Parab, R., Feeley, J. M., Valero de Clemente, M. A., Chadalawada, L., Garcia, G.-G. P., Kar, S. S., Madabhushi, A., Breton, M. D., Li, J., Shao, H., Pasquel, F. (2025). Artificial intelligence in diabetes care: applications, challenges, and opportunities ahead.

*Endocrine Practice*, 31(12), 1615-1625, .,  
<https://www.sciencedirect.com/science/article/pii/S1530891X25009668>Peer Review -  
Refereed

*Journal Article, Academic Journal*

Reshad, A., Nino de Valladares, L., Valero de Clemente, M. A. (2025). Deep learning-based detection of arrhythmia using ecg signals—a comprehensive review. *Vascular Health and Risk Management*, ., Impact Factor: 3.3,  
<https://www.tandfonline.com/journals/dvhr20/about-this-journal>Peer Review - Refereed

*Journal Article, Academic Journal*

Keyser, R. S., Li, L., Kimber, E., Berman, B., Kerbage, G., Valero de Clemente, M. A., Li, Y., Ukuku, A. (2025). Exploring the Blood Donation Problem in the U.S. and the Use of Emergent and Disruptive Technologies to Attract New Donors. *International Journal of Research in Industrial Engineering*, 14(2), 256-280, ., Impact Factor: 0.97,  
<https://doi.org/10.22105/rij.2024.472560.1466>Peer Review - Refereed

*Journal Article, Academic Journal*

Duong, A., Okaley, J., Valero de Clemente, M. A., Plachkinova, M. (2025). Establishing a GenCyber Student Camp: Practical Strategies and Resources for Enhancing Cybersecurity Education. *Journal of Information Systems Education*, .Peer Review - Refereed

*Journal Article, Academic Journal*

Reshad, A., Nino de Valladares, L. V., Valero de Clemente, M. A., Randolph, A., Shi, Y. (2025). Exploring the link between emotional states and coding task quality: a pilot study. *Frontier Cognitive Neuroscience*, 19, ., Impact Factor: 2.7, 680 Arntson DrivePeer Review - Refereed

*Journal Article, Academic Journal*

Ukuku, A., Keyser, R., Li, L., Valero, M. (2025). Intentions, Motivations, and Beliefs at a Large Public University about Donating Blood: A Pilot Study. *Journal of Operational and Strategic Analytics*, .,  
[https://library.acadlore.com/JOSA/2025/3/3/JOSA\\_03.03\\_03.pdf](https://library.acadlore.com/JOSA/2025/3/3/JOSA_03.03_03.pdf)Peer Review - Refereed

*Journal Article, Academic Journal*

Belfarsi, E. A., Brubaker, S., Valero de Clemente, M. A., Ingram, K. H. . Deep Learning for Non-Invasive Glucose Sensing in Synthetic Blood: an In-Vitro Study. *IEEE Connected Health: Application, Systems, and Engineering Technologies (CHASE 2025)*, .,  
Acceptance Rate: <18%Peer Review - Refereed

*Journal Article, Academic Journal*

Tufon, R., Randolph, A., Valero de Clemente, M. A., Nino de Valladares, L. V. (2025). Emotion, Gaming, and Well-Being: Integrating Neurophysiological Data. *Information Systems and Neuroscience: NeuroIS Retreat 2024*,, 66, .Peer Review - Refereed

*Journal Article, Academic Journal*

Tufon,, R., Randolph, A., Valero de Clemente, M. A., Nino de Valladares, L. V. (2025). Emotion, Gaming, and Well-Being: Integrating Neurophysiological Data with Self-Reports. *Information Systems and Neuroscience*, 239-244, .Peer Review - Refereed

## **Conference Proceedings**

### *Conference Proceeding*

Valladares, S., Hossain, N., Nino de Valladares, L. V., Valero de Clemente, M. A. (2025). *The Cost of a Ping: Neurophysiological Evidence of Attention Disruption from Mobile Notifications*. Proceedings of the The 2025 International Conference on Computational Science and Computational Intelligence. Peer Review - Refereed

*Conference Proceeding*

Grubb, A., Nino de Valladares, L. V., Sanchez-Cardona, I., Spoletini, P., Valero de Clemente, M. A. (2025). *Technology designed for older adults: You can't spell stakeholder without older!* (pp. 502–510). IEEE 33rd International Requirements Engineering Conference (RE). Peer Review - Refereed

*Conference Proceeding*

Belfarsi, E. A., Brubaker, S., Valero de Clemente, M. A., Ingram, K. H. (2025). *Deep learning for non-invasive glucose sensing in synthetic blood: an in-vitro study* (pp. 294 - 298). Proceedings of the ACM/IEEE International Conference on Connected Health: Applications, Systems and Engineering Technologies. Peer Review - Refereed

*Conference Proceeding*

Li, Y., Valero de Clemente, M. A., Berman, B., Min, J., Wiggins, L., Li, L., Ukuku, A. M., Keyser, R. S. (2025). *Immersive Virtual Reality to Support Blood Donation: A Pilot Study on Engagement and Anxiety Reduction* (6379th ed., vol. 11, pp. 7). 2025 ISCAP Conference. Peer Review - Refereed

*Conference Proceeding*

Manasreh, N., Spoletini, P., Valero de Clemente, M. A., Nino de Valladares, L. V., Sanchez-Cardona, I. (2025). *Designing Age-Friendly Apps: Mining Functional, Usability, and Privacy Requirements from Existing Mobile Applications* (pp. 605-611). IEEE 33rd International Requirements Engineering Conference Workshops (REW). Peer Review - Refereed

*Conference Proceeding*

Clemente, S., Varghese, L., Nino de Valladares, L. V., Valero de Clemente, M. A. (2025). *Sweating the Stress: GSR Insights into Cognitive Load and Distraction* (pp. 33-41). Proceedings of the IEEE/CVF International Conference on Computer Vision. Peer Review - Refereed

*Conference Proceeding*

Nino de Valladares, L. V., Valero de Clemente, M. A. (2025). *Towards Accessible Glucose Monitoring: Usability Insights from the GlucoCheck App for Seniors* (1st ed., vol. 14). Proceedings of the International Symposium on Human Factors and Ergonomics in Health Care. Peer Review - Refereed

*Conference Proceeding*

Belfarsi, E. A., Brubaker, S., Valero de Clemente, M. A. (2025). *Optimizing Blood Transfusions and Predicting Shortages in Resource-Constrained Areas* (pp. 149-160). 18th International Conference on Health Informatics. Peer Review - Refereed

**Wu, Rui (Associate Professor)**

**Refereed Journal Articles**

*Journal Article, Academic Journal*

Hall, R., Wu, R., Joyner, M., Zhu, Z., Sylcott, B., Lin, C.-C. (2025). The Accuracy of the Eye Tracking in a Virtual Reality Headset for Possible Research and Clinical Applications. *Healthcare and Medical Devices*, .Peer Review - Refereed

*Journal Article, Academic Journal*

Sousan, S., Wu, R., Popoviciu, C., Fresquez, S., Park, Y. M. . Advancing Low-cost Air Quality Monitor Calibration with Machine Learning. *Environmental Pollution*, .Peer Review - Refereed

### **Non-Refereed Journal Articles**

*Journal Article, Academic Journal*

Jamali, H., Dascalu, S. M., Harris, Jr, F. C., Wu, R. . AI-Powered Adaptive Learning Interfaces: A User Experience Study in Education Platforms. *Frontiers in Computer Science*, 7, 1672081, .

*Journal Article, Academic Journal*

Yang, M., Wu, R., Yang, Y., Tao, L., Zhang, Y., Xie, Y., Reddy, Gnana Prakash Reddy Donthi (2025). Image Matching: Foundations, State of the Art, and Future Directions. *Journal of Imaging*, 11(10), 329, .

### **Conference Proceedings**

*Conference Proceeding*

Jamali, H., Debolt, A., Dalton, H., Layosa, J., Macy, I., Shill, P., Feil-Seifer, D., Harris, F., Dascalu, S., Wu, R. . *FORE: A Student-Centered Framework for Accessible Robotics Education through Simulation and Interactive Learning*. 2025 ASEE Conference. Peer Review - Refereed

## **Wu, Shaoen (Professor)**

### **Refereed Journal Articles**

*Journal Article, Academic Journal*

Wu, Y., Zhang, J., Wu, S., Mao, S., Wang, Y. (2025). ZAS-F: a Zero-shot Abstract Sub-goal Framework Empowers Robots for Long Horizontal Inventory Tasks. *IEEE Access*, 13, 76400 - 76411, ., <https://ieeexplore.ieee.org/abstract/document/10978845> Peer Review - Refereed

### **Conference Proceedings**

*Conference Proceeding*

Wu, Y., Zhang, J., Wu, S., Mao, S. (2025). *LFE: A learn-from-error framework for adaptive robotic intelligence in AIoT environments*. IEEE Annual Congress on Artificial Intelligence of Things (AIoT 2025). Peer Review - Refereed

*Conference Proceeding*

Wu, Y., Zhang, J., Wu, S., Mao, S. (2025). *Enhancing the Robustness of AI-Driven Robotic RFID Inventory Management Using Conformal Prediction*. 2025 IEEE International Conference on Communications (ICC). Peer Review - Refereed

*Conference Proceeding*

Pandey, P., Le, L., Wu, S., Tian, X. . *An Investigation of Data Granularity in RAG Pipelines for Personalized Medicine*. BigData 2025 Special Symposiums/Sessions. Peer Review - Refereed

*Conference Proceeding*

Pandey, P., Le, L., Wu, S., Tian, X. . *An Investigation of Data Granularity in RAG Pipelines for Personalized Medicine*. BigData 2025. Peer Review - Refereed

*Conference Proceeding*

Nguyen, M., Zhao, L., Deng, B., Wu, S. . *FL-SNNs: Benchmarking the Byzantine-Robustness of Uniquely-Shaped Surrogate Gradients*. 22nd IEEE International Conference on Mobile Ad-Hoc and Smart Systems (MASS 2025). Peer Review - Refereed

*Conference Proceeding*

Muller, R., Xie, Y., Le, L., Wu, S. (2025). *Dynamic Knowledge Elicitation: Leveraging Student Feedback For Improved Language Model Distillation*. Proceedings of 2025 International Joint Conference on Neural Networks (IJCNN).  
<https://ieeexplore.ieee.org/document/11227292> Peer Review - Refereed

*Conference Proceeding*

Nguyen, M., Zhao, L., Deng, B., Wu, S. . *Sparsified Federated Learning with Spiking Neural Networks: Resistance Against Byzantine Attacks while Lowering Communication Traffics*. IEEE VTC 2025 Spring Conference. Peer Review - Refereed

## **Xiang, Anhao (Assistant Professor)**

### **Non-Refereed Journal Articles**

*Journal Article, Academic Journal*

Xiang, A., Ren, M., Yue, C., Crea, J., Kingham, J., Samuels, Z. . *Toward Practical and Scalable Adoption of Nonce-Based Content Security Policy on the Web*. in *IEEE Security & Privacy Magazine*, 2025., .Invited

### **Conference Proceedings**

*Conference Proceeding*

Ren, M., Xiang, A., Yue, C. . *Analyzing the Feasibility of Adopting Google's Nonce-Based CSP Solutions on Websites*. in IEEE/ACM International Conference on Software Engineering (ICSE), 2025.. Peer Review - Refereed

## **Xie, Ying (Professor)**

### **Refereed Journal Articles**

*Journal Article, Academic Journal*

Ordóñez, P., Xie, Y., Zhang, X., Xie, Y., Acosta, S., Guitierrez, I. (2025). *SPADE: Superpixel Adjacency Driven Embedding for Three-Class Melanoma Segmentation*. *Algorithms*, Volume 18(Issue 9), ., <https://www.mdpi.com/1999-4893/18/9/551> Peer Review - Refereed

### **Conference Proceedings**

*Conference Proceeding*

Xie, Y., Attota, D. (2025). *EvoRL: Evolution of Agentic Workflows using Reinforcement Learning*. Proceedings of 2025 IEEE International Conference on Big Data (IEEE BigData 2025).Peer Review - Refereed

*Conference Proceeding*

Regan, C., Xie, Y. (2025). *Inferring Latent Market Forces: Evaluating LLM Detection of Gamma Exposure Patterns via Obfuscation Testing*. Proceedings of 2025 IEEE International Conference on Big Data (IEEE BigData 2025).Peer Review - Refereed

*Conference Proceeding*

Attota, D., Le, L., Xie, Y. (2025). *Privacy-Preserving Model Compression: Adaptive Pruning for Federated Split Learning of LLMs*. Proceedings of IEEE International Conference on Machine Learning and Applications (IEEE ICMLA 2025).Peer Review - Refereed

*Conference Proceeding*

Verma, N., Xie, Y. (2025). *Optimizing Day-Ahead Energy Trading with Proximal Policy Optimization and Blockchain*. Proceedings of 2025 1st International Conference on Artificial Intelligence for Sustainable Society (AISS 2025).Peer Review - Refereed

*Conference Proceeding*

Chakravarty, S., Xie, Y. (2025). *Secrecy Improvement Using Active Reconfigurable Intelligent Surfaces and Leveraging Guard Zones*. Proceedings of 2025 IEEE Vehicular Technology Conference (VTC2025-Fall). <https://ieeexplore.ieee.org/document/11310159>Peer Review - Refereed

*Conference Proceeding*

Muller, R., Xie, Y., Le, L., Wu, S. (2025). *Dynamic Knowledge Elicitation: Leveraging Student Feedback For Improved Language Model Distillation*. Proceedings of 2025 International Joint Conference on Neural Networks (IJCNN). <https://ieeexplore.ieee.org/document/11227292>Peer Review - Refereed

**Xie, Yixin (Chloe) (Assistant Professor)**

***Refereed Journal Articles***

*Journal Article, Academic Journal*

Ordóñez, P., Xie, Y., Zhang, X., Xie, Y., Acosta, S., Guitierrez, I. (2025). SPADE: Superpixel Adjacency Driven Embedding for Three-Class Melanoma Segmentation. *Algorithms*, Volume 18(Issue 9), ., <https://www.mdpi.com/1999-4893/18/9/551>Peer Review - Refereed

*Journal Article, Academic Journal*

Nasajpour, M., Pouriye, S., Meimandi Parizi, R., Han, M., Mosaiyebzadeh, F., Xie, Y., Liu, L., Batista, D. M. (2025). Advances in Application of Federated Machine Learning for Oncology and Cancer Diagnosis. *Information*, 16(6), 487, ., <https://doi.org/10.3390/info16060487>Peer Review - Refereed

*Journal Article, Academic Journal*

Nasajpour, M., Pouriye, S., Meimandi Parizi, R., Han, M., Mosaiyebzadeh, F., Liu, L., Xie, Y., Batista, D. M. (2025). Federated Learning in Smart Healthcare: A Survey of Applications, Challenges, and Future Directions. *Electronics*, 14(9), 1750, ., <https://doi.org/10.3390/electronics14091750>Peer Review - Refereed

***Non-Refereed Journal Articles***

*Journal Article, Academic Journal*

Yang, M., Wu, R., Yang, Y., Tao, L., Zhang, Y., Xie, Y., Reddy, Gnana Prakash Reddy Donthi (2025). Image Matching: Foundations, State of the Art, and Future Directions. *Journal of Imaging*, 11(10), 329, .

### **Conference Proceedings**

*Conference Proceeding*

Nasif, K. F. A., Deng, B., Chen, L., Xie, Y., Teng, S., Li, J., Zhao, L., Alam, S. M. S., Dhar, N., Suo, K., Lo, D. C.-T. (2025). *AccelMD: A Self-adaptive AI-enabled Framework for Accelerating Molecular Dynamics Simulations*. The 37th IEEE International Conference on Tools with Artificial Intelligence (ICTAI 2025).Peer Review - Refereed

*Conference Proceeding*

Chen, L., Nasif, K. F. A., Yang, M., Niu, S., Deng, B., Xie, Y. (2025). *Automatic Molecular Dynamics Simulation with Binding Affinity Prediction Using Deep Learning*. 2025 IEEE 37th International Conference on Tools with Artificial Intelligence (ICTAI 2025).Peer Review - Refereed

*Conference Proceeding*

Elghazzali, Z., Zhao, C., Chen, K., Chen, L., Deng, B., Nasif, K. F. A., Xie, Y. (2025). *Multimodal Deep Learning for Alzheimer's Disease Classification: A Practical Fusion Framework for Clinical Deployment*. IEEE 37th International Conference on Tools with Artificial Intelligence (ICTAI 2025).Peer Review - Refereed

*Conference Proceeding*

Mutala, V. S., Pouriyeh, S., Xie, Y., Han, M., Basile, I., Sannino, G. (2025). Enhancing Alzheimer's Diagnosis Through Spontaneous Speech Recognition: Deep Learning Approach with Data Augmentation. *2025 IEEE Symposium on Computers and Communications (ISCC)* (pp. 1-6). IEEE.  
<https://doi.org/10.1109/iscc65549.2025.11325956>

*Conference Proceeding*

Bhargav Mutala, V. S., Pouriyeh, S., Meimandi Parizi, R., Xie, Y., Santopalo, A., Basile, I., Sannino, G. (2025). Enhancing Alzheimer's Disease Detection Using LLM-Generated Synthetic Data and Multi-Level Embeddings. *2025 International Joint Conference on Neural Networks (IJCNN)* (pp. 1-7). IEEE.  
<https://doi.org/10.1109/ijcnn64981.2025.11229368>

*Conference Proceeding*

L. Z., D. H. J., W. S., L. Y., Xie, Y., S. N. (2025). *Flexible memory rotation (fmr): Rotated representation with dynamic regularization to overcome catastrophic forgetting in continual knowledge graph learning*. IEEE.Peer Review - Refereed

*Conference Proceeding*

D. H. J., W. S., H. H. S., D. L., V. A., Xie, Y., S. N. (2025). *KGIF: Optimizing Relation-Aware Recommendations with Knowledge Graph Information Fusion*. IEEE.Peer Review - Refereed

**Xu, Honghui (Assistant Professor)**

### **Refereed Journal Articles**

*Journal Article, Academic Journal*

Shrestha, S., Xu, H., Xie, Z., Seo, D., Joe, Y., Kim, W., Li, Y. . KDLLM: Copyright-Preserving LLM based on Knowledge Distillation. *Tsinghua Science and Technology*, .Peer Review - Refereed

*Journal Article, Academic Journal*

Wang, C., Zheng, D., Xing, H., Tang, W., Xu, H., Zhong, Y., Cao, X. (2025). NFV-based Security Estimation and Classification Approaches for AIGC-enabled Edge Networks. *IEEE Transactions on Network Science and Engineering*, .Peer Review - Refereed

### **Conference Proceedings**

*Conference Proceeding*

Vu, L., Frank, M., Xu, H., Chen, S., Nguyen, T., He, J., Deng, B., Suo, K. (2025). *Assessing and Visualizing Completeness, Co-Coverage, and Scalability in Multivariate Time-Series Data*. 44th IEEE International Performance Computing and Communications Conference (IPCCC 2025).Peer Review - Refereed

*Conference Proceeding*

Nahid, E., Zhao, C., Amirgholy, M., Zheng, D., Xu, H. . *Privacy-Preserving Multi-Source Data-Driven Optimization for Intelligent EV Charging*. IEEE International Conference on Systems, Man, and Cybernetics.Peer Review - Refereed

### **Yang, Ming (Professor)**

#### **Non-Refereed Journal Articles**

*Journal Article, Academic Journal*

Yang, M., Wu, R., Yang, Y., Tao, L., Zhang, Y., Xie, Y., Reddy, Gnana Prakash Reddy Donthi (2025). Image Matching: Foundations, State of the Art, and Future Directions. *Journal of Imaging*, 11(10), 329, .

#### **Conference Proceedings**

*Conference Proceeding*

Chen, L., Nasif, K. F. A., Yang, M., Niu, S., Deng, B., Xie, Y. (2025). *Automatic Molecular Dynamics Simulation with Binding Affinity Prediction Using Deep Learning*. 2025 IEEE 37th International Conference on Tools with Artificial Intelligence (ICTAI 2025).Peer Review - Refereed

*Conference Proceeding*

Borole, Y. D., Challagundla, Y., Kolluru, V., Mohanty, S., Yang, M. (2025). *EEG-Based Brain-Computer Interface for Robotic System Control Using Right-Left Hand Movements with Ensemble Model*. 2025 IEEE 8th International Conference on Multimedia Information Processing and Retrieval (MIPR).Peer Review - Refereed

### **Zhang, Jian (Assistant Professor)**

#### **Refereed Journal Articles**

*Journal Article, Academic Journal*

Amoah, B., Wang, X., Zhang, J., Mao, S., Periaswamy, S. C. G., Patton, J. (2025). Adaptive Power Control for Dense RFID Networks. *Journal of Communications and Information Networks/PTP*, 10(2), 103-122, .Peer Review - Refereed

*Journal Article, Academic Journal*

Amoah, B., Wang, X., Zhang, J., Mao, S., Periaswamy, S. C. G., Patton, J. (2025). NEMO: Neighborhood-aware efficient management and optimization in dense RFID systems. *IET Communications*, 19(1), .Peer Review - Refereed

*Journal Article, Academic Journal*

Wu, Y., Zhang, J., Wu, S., Mao, S., Wang, Y. (2025). ZAS-F: a Zero-shot Abstract Sub-goal Framework Empowers Robots for Long Horizontal Inventory Tasks. *IEEE Access*, 13, 76400 - 76411, ., <https://ieeexplore.ieee.org/abstract/document/10978845>Peer Review - Refereed

**Conference Proceedings**

*Conference Proceeding*

Dutta, P., Podder, K. K., Zhang, J., Swarna, S. T., Bhavsar, P., Mehta, Y. (2026). *Convolutional Neural Network–Based Self-Supervised Masked Autoencoder for Pavement Distress Detection in Smart Transportation Systems*. Transportation Research Board Annual Meeting 2026.Peer Review - Refereed

*Conference Proceeding*

Amoah, B., Zhang, J., Mao, S., Periaswamy, S. C.G., Patton, J. (2025). *EchoNet: Breaking through multipath barriers for high-precision RFID-IoT sensing*. The 2025 IEEE Middle East Conference on Communications and Networking (MECOM).Peer Review - Refereed

*Conference Proceeding*

Wu, Y., Zhang, J., Wu, S., Mao, S. (2025). *LFE: A learn-from-error framework for adaptive robotic intelligence in AIoT environments*. IEEE Annual Congress on Artificial Intelligence of Things (AIoT 2025).Peer Review - Refereed

*Conference Proceeding*

Podder, K. K., Zhang, J., Mao, S. (2025). *Memory-efficient rehearsal-based class incremental learning for robot hand signal recognition*. IEEE Annual Congress on Artificial Intelligence of Things (AIoT 2025).Peer Review - Refereed

*Conference Proceeding*

Podder, K. K., Zhang, J., Mao, S. (2025). *MoER: Momentary experience replay for robust incremental gesture learning in assistive robotics*. IEEE GLOBECOM 2025.Peer Review - Refereed

*Conference Proceeding*

Amoah, B., Wang, X., Zhang, J., Mao, S., Periaswamy, S., Patton, J. (2025). *Resilient RFID networks: Securing decentralized neighborhood-aware protocols*. IEEE RFID-TA 2025.Peer Review - Refereed

*Conference Proceeding*

Podder, K. K., Zhang, J., Mao, S., Yu, Z. (2025). *Uncertainty-aware domain incremental learning for gesture recognition in robotic IoT system*. 11th IEEE World Forum on Internet of Things (WFIOT 2025).Peer Review - Refereed

*Conference Proceeding*

Amoah, B., Wang, X., Zhang, J., Mao, S., Periaswamy, S., Patton, J. (2025). *DCA-KEAE: A Dynamic Context-Aware Key Exchange and Adaptive Encryption Scheme for Secure RFID Systems*. 2025 IEEE International Conference on Communications (ICC).Peer Review - Refereed

*Conference Proceeding*

Turner, C., Bhaskaruni, D., Wang, X., Zhang, J., Mao, S., Periaswamy, S. C., Patton, J. (2025). *Digital Twin of Retail Environment Using RFID Particle Filter Localization*. 2024 9th International Conference on Smart and Sustainable Technologies (SpliTech).Peer Review - Refereed

*Conference Proceeding*

Wu, Y., Zhang, J., Wu, S., Mao, S. (2025). *Enhancing the Robustness of AI-Driven Robotic RFID Inventory Management Using Conformal Prediction*. 2025 IEEE International Conference on Communications (ICC).Peer Review - Refereed

*Conference Proceeding*

Amoah, B., Wang, X., Zhang, J., Mao, S., Periaswamy, S., Patton, J. (2025). *RFIDNet: A Protocol for Effective Multiple RFID Readers Collaboration*. 2025 IEEE International Conference on Communications (ICC).Peer Review - Refereed

*Conference Proceeding*

Amoah, B., Wang, X., Zhang, J., Mao, S., Periaswamy, S. C., Patton, J. (2025). *MCSMARA: A MAC Protocol for RFID Systems*. IEEE, The 19th Annual International Conference On RFID.Peer Review - Refereed

**Zhang, Xuechen (Associate Professor)**

**Book Chapters**

*Book, Chapter in Scholarly Book-New*

Rongon, R. R., Zhang, X. (2025). *iAug: Accelerating Augmentation with Importance Sampling in Deep Neural Network Training* (pp. 264-277). 31th International European Conference on Parallel and Distributed Computing. [https://doi.org/10.1007/978-3-031-99857-7\\_19](https://doi.org/10.1007/978-3-031-99857-7_19)Peer Review - Refereed

**Refereed Journal Articles**

*Journal Article, Academic Journal*

Pan, Z., He, S., Li, X., Zhang, X., Wang, R., Yin, Y., Chen, G. (2025). *Advanced Maximal Biclique Enumeration on GPUs Using Bitmaps*. *IEEE Transactions on Computers*, 74(8), 2552-2566, ., <https://doi.org/10.1109/tc.2025.3566898>Peer Review - Refereed

*Journal Article, Academic Journal*

Chen, W., He, S., Zhang, R., Zhang, X., Chen, P., Yang, S., Qu, H., Zhan, X. (2025). *ImPACT: Importance-Informed Prefetching and Caching for I/O-Bound DNN Training*. *IEEE Transactions on Computers*, 74(8), 2649-2662, ., <https://doi.org/10.1109/tc.2025.3569126>Peer Review - Refereed

**Conference Proceedings**

*Conference Proceeding*

Powell, K., Rongon, R., Yang, X., Zhang, X. (2025). *Accelerating Deep-Learning Applications with Efficient Tensor Layout Management*. 2025 Symposium for Undergraduate Research in Data Science, Systems, and Security (REU Symposium 2025).Peer Review - Refereed

*Conference Proceeding*

Turner, J., DiSomma, C., Zhang, X., Fan, L., Yang, X. (2025). *Hardware Generation for Quantum Gate Emulation and Acceleration*. 2025 Symposium for Undergraduate

Research in Data Science, Systems, and Security (REU Symposium 2025),.Peer Review  
- Refereed

*Conference Proceeding*

Chen, W., He, S., Qu, H., Zhang, X. (2025). LeapGNN: accelerating distributed GNN training leveraging feature-centric model migration. *Proceedings of the 23rd USENIX Conference on File and Storage Technologies*. USA: USENIX Association.

*Conference Proceeding*

Yang, S., He, S., Wang, W., Yin, Y., Wu, T., Chen, W., Zhang, X., Sun, X.-H., Feng, D. (2025). GoPIM: GCN-Oriented Pipeline Optimization for PIM Accelerators. *2025 IEEE International Symposium on High Performance Computer Architecture (HPCA)* (pp. 657-670). IEEE. <https://doi.org/10.1109/hpca61900.2025.00056>Peer Review - Refereed

**Zhao, Liang (Assistant Professor)**

***Conference Proceedings***

*Conference Proceeding*

Nasif, K. F. A., Deng, B., Chen, L., Xie, Y., Teng, S., Li, J., Zhao, L., Alam, S. M. S., Dhar, N., Suo, K., Lo, D. C.-T. (2025). *AccelMD: A Self-adaptive AI-enabled Framework for Accelerating Molecular Dynamics Simulations*. The 37th IEEE International Conference on Tools with Artificial Intelligence (ICTAI 2025).Peer Review - Refereed

*Conference Proceeding*

Nguyen, M., Zhao, L., Deng, B., Wu, S. . *FL-SNNs: Benchmarking the Byzantine-Robustness of Uniquely-Shaped Surrogate Gradients*. 22nd IEEE International Conference on Mobile Ad-Hoc and Smart Systems (MASS 2025).Peer Review - Refereed

*Conference Proceeding*

Nguyen, M., Zhao, L., Deng, B., Wu, S. . *Sparsified Federated Learning with Spiking Neural Networks: Resistance Against Byzantine Attacks while Lowering Communication Traffics*. IEEE VTC 2025 Spring Conference.Peer Review - Refereed

**Department of Software Engineering and Game Development**

**Dehbozorgi, Nasrin (Assistant Professor)**

***Refereed Journal Articles***

*Journal Article, Academic Journal*

Liyuan, L., Pouriyeh, S., Zhou, Y., Dehbozorgi, N. (2025). Beyond One-Size-Fits-All: An AI-Driven Approach for Personalized Quizzes Using Clustering and ChatGPT. *International Journal of Information and Education Technology*, .Peer Review - Refereed

***Conference Proceedings***

*Conference Proceeding*

Sreekanth, D., Gopi, S., Dehbozorgi, N. . *Agentic AI Quiz-Based Learning System: Enhancing MCQ Generation via Long-Context Cached Retrieval-Augmented Generation*. Frontiers in Education. Peer Review - Refereed

*Conference Proceeding*

Kumar Devara, A., Dehbozorgi, N. . *EdQuest - Enhancing Educational Resource Discovery with AI-Powered Web Scraping*. Frontiers in Education (FIE). Peer Review - Refereed

*Conference Proceeding*

Teja Kunuku, M., Dehbozorgi, N. . *Exploring Multimodal Quiz Generation and Evaluation Aligned with Higher-Order Learning Objectives in Bloom's Taxonomy*. Artificial Intelligence in Education (AIED). Peer Review - Refereed

*Conference Proceeding*

Teja Kunuku, M., Dehbozorgi, N. . *Multimodal Quiz Generation via RAG with LLM-as-Judge Evaluation*. Frontiers in Education (FIE). Peer Review - Refereed

*Conference Proceeding*

Dehbozorgi, N., Teja Kunuku, M. (2025). *From Reflection to Insight: Using LLM to Improve Learning Analytics in Higher Education*. ASEE. Peer Review - Refereed

## **Huang, Yan (Associate Professor)**

### **Refereed Journal Articles**

*Journal Article, Academic Journal*

Cai, Z., Pang, J., Li, Y., Huang, Y., Xie, Z. (2025). A Comprehensive Survey of Federated Open-World Learning. *IEEE Transactions on Network Science and Engineering*, .Peer Review - Refereed

*Journal Article, Academic Journal*

Xie, Z., Luo, Q., Huang, Y., Yin, Y., Zhang, J., Pang, J. (2025). Experience Replay with Cohesive-Subgraph Awareness for Continual Graph Learning in IoT. *Digital Communications and Networks*, .Peer Review - Refereed

*Journal Article, Academic Journal*

Ding, X., Ding, X., Wang, Y., Li, Y., Huang, Y. (2025). Wideband 2-D DoA estimation with uniform circular array. *IEEE Sensor*, .Peer Review - Refereed

*Journal Article, Academic Journal*

Chen, A., Xu, W., Wang, Y., Huang, Y., Gui, G. (2025). Deep-Unrolling-based Gridless Channel Estimation in Massive SIMO System With Antenna Failures. *IEEE Wireless Communications Letters*, .Peer Review - Refereed

*Journal Article, Academic Journal*

Yu, D., Zhang, H., Huang, Y., Xie, Z. (2025). Data distribution inference attack in federated learning via reinforcement learning support. *High-Confidence Computing*, .Peer Review - Refereed

*Journal Article, Academic Journal*

Rezzak, R., Li, J., He, S., Jung, S., Mei, C., Huang, Y. (2025). Using Virtual Reality to Enhance Attention for Autistic Spectrum Disorder with Eye Tracking. *High-Confidence Computing*, .Peer Review - Refereed

### **Non-Refereed Journal Articles**

*Journal Article, Academic Journal*

Alsing, P., Cardimona, D., Huang, Y., Apostolova, T., Glass, W., Castillo, C., Schneider, H., Drachenko, O., Winnerl, S., Helm, M., others . Infrared Device Physics.

### **Conference Proceedings**

*Conference Proceeding*

Shannon, T., Huang, Y., Liu, Z., Yang, J., Li, Y. (2025). *Exploring Heterogeneity in Federated Learning*. WASA2025. Peer Review - Refereed

*Conference Proceeding*

Chen, X., Huang, Y., Xie, Z., Pang, J. (2025). *HyperFedNet: Communication-Efficient Personalized Federated Learning Via Hypernetwork*. VLDB 2024 Workshop. Peer Review - Refereed

### **Jung, Sungchul (Assistant Professor)**

#### **Refereed Journal Articles**

*Journal Article, Academic Journal*

Ahmed, N., Wu, P., Huang, K., Jung, S., Rheem, H., Tan, G., Imani, M., Islam, R. (2025). Human Task Performance and Associated Internal States in Extended Reality: A Systematic Review of Cognitive, Psychophysiological, and Physiological Dimensions. *Frontiers in Virtual Reality*, 6, 1589256, ., Impact Factor: 3.6 Peer Review - Refereed

*Journal Article, Academic Journal*

Rezzak, R., Li, J., He, S., Jung, S., Mei, C., Huang, Y. (2025). Using Virtual Reality to Enhance Attention for Autistic Spectrum Disorder with Eye Tracking. *High-Confidence Computing*, . Peer Review - Refereed

*Journal Article, Academic Journal*

Jinan, U., Heidarikohol, N., Borst, C., Billingham, M., Jung, S. (2025). A Systematic Survey of Using Immersive Technologies for Empathic Computing from 2000-2023. *Journal of Empathic Computing*, . Peer Review - Refereed

#### **Conference Proceedings**

*Conference Proceeding*

Tran, K., Jung, S., Lindeman, R. (2025). *Workspace-VR: Mitigating the Visual Isolation of VR Headsets for Office Environments*. 31st International Conference on Neural Information Processing (ICONIP2024), Springer-Nature. Peer Review - Refereed

### **Li, Joy (Associate Professor)**

#### **Refereed Journal Articles**

*Journal Article, Academic Journal*

Keyser, R. S., Li, L., Kimber, E., Berman, B., Kerbage, G., Valero de Clemente, M. A., Li, Y., Ukuku, A. (2025). Exploring the Blood Donation Problem in the U.S. and the Use of Emergent and Disruptive Technologies to Attract New Donors. *International Journal of*

*Research in Industrial Engineering*, 14(2), 256-280, ., Impact Factor: 0.97,  
<https://doi.org/10.22105/riej.2024.472560.1466>Peer Review - Refereed

*Journal Article, Academic Journal*

Razzak, R., Li, Y., Sokhadze, E., He, J. (2025). Stress and Driving Performance Evaluation through VR and Physiological Metrics: A Pilot Study. *Journal of Information Systems Applied Research and Analytics*, 18(2), 30-51, ., <https://jisara.org/2025-18/n2/JISARAv18n2p30.html>Peer Review - Refereed

*Journal Article, Academic Journal*

Rezzak, R., Li, J., He, S., Jung, S., Mei, C., Huang, Y. (2025). Using Virtual Reality to Enhance Attention for Autistic Spectrum Disorder with Eye Tracking. *High-Confidence Computing*, .Peer Review - Refereed

**Conference Proceedings**

*Conference Proceeding*

Li, Y., Valero de Clemente, M. A., Berman, B., Min, J., Wiggins, L., Li, L., Ukuku, A. M., Keyser, R. S. (2025). *Immersive Virtual Reality to Support Blood Donation: A Pilot Study on Engagement and Anxiety Reduction* (6379th ed., vol. 11, pp. 7). 2025 ISCAP Conference.Peer Review - Refereed

*Conference Proceeding*

Sanjana, S., Li, Y., He, J. (2025). *A Systematic Review of AI-Driven Interviewing Systems for Technical and Professional Skills* (n6438 ed., vol. 11, pp. 1-17). 2025 Proceedings of the ISCAP Conference. <https://iscap.us/proceedings/2025/>Peer Review - Refereed

*Conference Proceeding*

Adivi, S. R. R., Li, Y., Islam, M. M., He, J. (2025). *Psychophysiological Computational Modeling for Stress Management in VR Driving Simulation*. 11th International Conference on Virtual Reality.Peer Review - Refereed

*Conference Proceeding*

Chen, S., Li, J., Mei, C., Joiner, T. (2025). *Advancing Suicide Prevention through Immersive Technology* (vol. 1, pp. 882-889). 17th International Conference on Computer Supported Education CSEDU - ERSeGEL 2025.Peer Review - Refereed

*Conference Proceeding*

Zhang, L., Li, Y., Prather, M., Haynes, D. (2025). *Saving the Polar Bears: A Collaborative VR Storytelling Experience Enhanced by Multi-scale and Multi-view WiM Designs*. 2025 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW).Peer Review - Refereed

*Conference Proceeding*

Li, Y. J., Palagundla, V. S., Blay, D., Akintomide, M. (2025). *Enhancing Dementia Care Skills in Healthcare Students Through Gamified VR: A Pilot Study* (pp. 405-410). 2025 8th International Conference on Information and Computer Technologies (ICICT).Peer Review - Refereed

**Other Intellectual Contributions**

*Published Abstract*

Tigani, C., Scholl, B., Li, Y., Farfan, E. B., Palmer, A. (2025). *Designing a Game-Based Simulation of a Pressurized Water Reactor for Education and Nuclear Energy Awareness*. 29th Annual Symposium of Student Scholars - 2025. Editorial Review

**Li, Xia (Assistant Professor)**

**Conference Proceedings**

*Conference Proceeding*

Li, X., Mistry, T. (2025). *Multi-label commit message classification through p-tuning*. 4th International Conference on Software Engineering and Automation (SEAU 2025). Peer Review - Refereed

*Conference Proceeding*

Li, X., Kim, A. (2025). *Evaluating prompt-learning-based API review classification through pre-trained models*. 3rd International Conference on Computer Science, Engineering and Artificial Intelligence (CSEAI 2025). Peer Review - Refereed

*Conference Proceeding*

Li, X., Kim, A. (2025). *A Study to Evaluate the Impact of LoRA Fine-tuning on the Performance of Non-functional Requirements Classification*. 9th International Conference on Software Engineering and Applications (SOEA 2025). Peer Review - Refereed

**Markowsky, George (Professor)**

**Non-Refereed Journal Articles**

*Journal Article, Academic Journal*

Kussul, N., Yatsenko, V., Sachenko, A., Markowsky, G., Sydorenko, A., Skakun, S., Ganzha, S. . A MODULAR NEURAL NETWORK APPROACH TO CHEMICAL CONTENT ANALYSIS OF VEGETATION.

*Journal Article, Academic Journal*

Markowsky, G. . BEOWULFS GO TO SEA.

*Journal Article, Academic Journal*

Maruyama, K., Markowsky, G. . Computer Communication ICC Atlanta 27-30, October 1980.

*Journal Article, Academic Journal*

Markowsky, G., Wegman, M. N. . Ct egS|/ggS/tr-le.

*Journal Article, Academic Journal*

Markowsky, G., IBM Thomas, J. . Following Dana Scott's lead [S1].. a number of authors ([A][EC][M2] IMR][R1][R3] ISM|| v], ha.

*Journal Article, Academic Journal*

MICHAEL, A., Markowsky, G. . GENERATION OF SOLID MODELS FROM TWO-DIMENSIONAL AND THREE-DIMENSIONAL DATA.

*Journal Article, Academic Journal*

NAU, D. S., Markowsky, G., WOODBURY, M. . Human Leukocyte Antigen Serology.

*Journal Article, Academic Journal*

Kou, L., Markowsky, G., Berman, L. . II Illifl.

*Journal Article, Academic Journal*

Maruyama, K., Markowsky, G. . m--mm ' . i" i1 iii.

*Journal Article, Academic Journal*

Markowsky, G. . Mainstream Solutions for the Problems of Disability.

*Journal Article, Academic Journal*

Markowsky, G. . Misconceptions about the fielden Ratio.

*Journal Article, Academic Journal*

Markowsky, G., Markowsky, L. . PROMELA: Introducing Proof into Cybersecurity Education.

*Journal Article, Academic Journal*

Markowsky, G., Wegman, M. N. . SPY M56\$\backslash\$'Qt'lvaj (45mg M0719 6\textcent.

*Journal Article, Academic Journal*

Kochanski, T., Firut, Z., Kochanski, G., Lebecki, K., Long, L., Markowsky, G., Rucinska, B., Rucinski, A. . The PLUTO Project: The Concept of a Virtual Tunnel Laboratory in the Experimental Mine 'Barbara'.

*Journal Article, Academic Journal*

Markowsky, G. . The Problem of Interceptor Top Level Domains Revisited--Extended Abstract.

*Journal Article, Academic Journal*

Markowsky, G. . ttIS kT 00.

*Journal Article, Academic Journal*

Connolly, G., Sachenko, A., Markowsky, G. . Web Neighborhood Watch.

*Journal Article, Academic Journal*

Chandra, A. K., Kou, L. T., Markowsky, G. . With all k-Projections Surjective.

## **Meimandi Parizi, Reza (Associate Professor)**

### ***Refereed Journal Articles***

*Journal Article, Academic Journal*

Aledhari, M., Razzak, R., Rahouti, M., Yazdinejad, A., Meimandi Parizi, R., Qolomany, B., Guizani, M., Qadir, J., Al-Fuqaha, A. (2025). Safeguarding connected autonomous vehicle communication: Protocols, intra- and inter-vehicular attacks and defenses. *Computers & Security*, 151, 104352, ., <https://www.sciencedirect.com/science/article/pii/S0167404825000410>Peer Review - Refereed

*Journal Article, Academic Journal*

Nasajpour, M., Pouriye, S., Meimandi Parizi, R., Han, M., Mosaiyebzadeh, F., Xie, Y., Liu, L., Batista, D. M. (2025). Advances in Application of Federated Machine Learning for Oncology and Cancer Diagnosis. *Information*, 16(6), 487, ., <https://doi.org/10.3390/info16060487>Peer Review - Refereed

*Journal Article, Academic Journal*

Nasajpour, M., Pouriye, S., Meimandi Parizi, R., Han, M., Mosaiyebzadeh, F., Liu, L., Xie, Y., Batista, D. M. (2025). Federated Learning in Smart Healthcare: A Survey of

Applications, Challenges, and Future Directions. *Electronics*, 14(9), 1750, ..  
<https://doi.org/10.3390/electronics14091750>Peer Review - Refereed

### **Conference Proceedings**

#### *Conference Proceeding*

Mothukuri, V., Meimandi Parizi, R. (2025). *AgentFL: AI-Orchestrated Agents for Federated Learning*. the 45th IEEE International Conference on Distributed Computing Systems workshops (IEEE ICDCSW 2025).Peer Review - Refereed

#### *Conference Proceeding*

Mothukuri, V., Meimandi Parizi, R. (2025). *Automated Judging of LLM-based Smart Contract Security Auditors*. the 7th IEEE International Conference on Blockchain and Cryptocurrency (ICBC 2025).Peer Review - Refereed

#### *Conference Proceeding*

Bhargav Mutala, V. S., Pouriye, S., Meimandi Parizi, R., Xie, Y., Santopalo, A., Basile, I., Sannino, G. (2025). Enhancing Alzheimer's Disease Detection Using LLM-Generated Synthetic Data and Multi-Level Embeddings. *2025 International Joint Conference on Neural Networks (IJCNN)* (pp. 1-7). IEEE.  
<https://doi.org/10.1109/ijcnn64981.2025.11229368>

## **Shamim, Md Shazibul Islam (Assistant Professor)**

### **Refereed Journal Articles**

#### *Journal Article, Academic Journal*

Shamim, M. S. I. (2025). Benefits, Challenges, and Research Topics: A Multi-vocal Literature Review of Kubernetes. *ACM*, .Peer Review - Refereed

### **Conference Proceedings**

#### *Conference Proceeding*

Shamim, M. S. I. (2025). *On Prescription or Off Prescription? An Empirical Study of Community-prescribed Security Configurations in Kubernetes Deployments*. 46th IEEE/ACM International Conference on Software Engineering (ICSE) 2025.Peer Review - Refereed

#### *Conference Proceeding*

Shamim, M. S. I. (2025). Authentic Learning Exercise for Kubernetes Misconfigurations: An Experience Report of Student Perceptions. *No. IEEE/ACM*.Peer Review - Refereed

#### *Conference Proceeding*

Shamim, M. S. I. (2025). *Dynamic Application Security Testing for Kubernetes Deployment: An Experience Report from Industry*. Proceedings of the 33rd ACM International Conference on the Foundations of Software Engineering.Peer Review - Refereed

## **Spoletini, Paola (Professor)**

### **Refereed Journal Articles**

#### *Journal Article, Academic Journal*

Broccia, G., ter Beek, M., Lafuente, A. L., Spoletini, P., Fantechi, A., Ferrari, A. (2025). Evaluating the understandability and user acceptance of Attack-Defense Trees: Original

experiment and replication. *Information and Software Technology*, .Peer Review - Refereed

### **Conference Proceedings**

#### *Conference Proceeding*

Grubb, A., Nino de Valladares, L. V., Sanchez-Cardona, I., Spoletini, P., Valero de Clemente, M. A. (2025). *Technology designed for older adults: You can't spell stakeholder without older!* (pp. 502–510). IEEE 33rd International Requirements Engineering Conference (RE).Peer Review - Refereed

#### *Conference Proceeding*

Manasreh, N., Spoletini, P., Valero de Clemente, M. A., Nino de Valladares, L. V., Sanchez-Cardona, I. (2025). *Designing Age-Friendly Apps: Mining Functional, Usability, and Privacy Requirements from Existing Mobile Applications* (pp. 605-611). IEEE 33rd International Requirements Engineering Conference Workshops (REW).Peer Review - Refereed

## **Wang, Chenyu (Assistant Professor)**

### **Refereed Journal Articles**

#### *Journal Article, Academic Journal*

Wang, C., Maradapu Vera Venkata Sai, A., Wang, K., Li, Y. (2025). Joint Information Freshness Optimization for Digital Twin Communication Infrastructure Through Hierarchical Deep Reinforcement Learning. *Intelligent and Converged Networks*, .Peer Review - Refereed

#### *Journal Article, Academic Journal*

Suleiman, R., Maradapu Vera Venkata Sai, A., Yu, W., Wang, C. (2025). Blockchain for Security in Digital Twins. *Future Internet*, .Peer Review - Refereed

#### *Journal Article, Academic Journal*

Wang, C., Cai, Z., Li, Y. (2025). Human Activity Recognition in Mobile Edge Computing: A Low-Cost and High-Fidelity Digital Twin Approach With Deep Reinforcement Learning. *IEEE Transactions on Consumer Electronics*, .Peer Review - Refereed

#### *Journal Article, Academic Journal*

Pei, M., Wang, C., Wang, X., Zheng, Z., Huang, J., Wang, S. (2025). Hierarchical Reverse Games for the Resource Ecosystem in Cloud–Edge Computing. *IEEE Transactions on Consumer Electronics*, .Peer Review - Refereed

## **Zhang, Lei (Assistant Professor)**

### **Refereed Journal Articles**

### **Conference Proceedings**

#### *Conference Proceeding*

Zhang, L., Li, Y., Prather, M., Haynes, D. (2025). *Saving the Polar Bears: A Collaborative VR Storytelling Experience Enhanced by Multi-scale and Multi-view WiM Designs*. 2025 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW).Peer Review - Refereed

**Zhao, Brooke (Assistant Professor)**

***Non-Refereed Journal Articles***

*Journal Article, Academic Journal*

Zhao, Y., Gagnon, H., Stefanucci, J., Creem-Regehr, S., Bodenheimer, B. (2025). A Systematic Review of the Use of Augmented Reality in Pedestrian Navigation. *ACM Computing Surveys*, .

***Conference Proceedings***

*Conference Proceeding*

Zhao, Y., Bodenheimer, B. (2025). How Spatial Ability Affects Response to Gaze-Adaptive Cueing in Mixed Reality Spatial Navigation. *2025 IEEE International Symposium on Mixed and Augmented Reality (ISMAR)* (pp. 1638--1648).

## School of Data Science and Analytics

**Agiro, Don (Graduate Teaching Assistant)**

### **Refereed Journal Articles**

*Journal Article, Academic Journal*

Kimitei, S. K., Agiro, D., Ni, X., Ni, H. (2025). Predictive Ability & Explainability of Survival Analysis in Churn Prediction. *Journal of Marketing Analytics*, ., Impact Factor: 3.5Peer Review - Refereed

**Aktas, Mehmet E. (Associate Professor)**

### **Refereed Journal Articles**

*Journal Article, Academic Journal*

Findley, K., Aktas, M. E., Yang, C. (2025). Why Come to Class? Post-pandemic Perspectives from Students in an Introductory Statistics Course. *Journal of Statistics and Data Science Education*, .Peer Review - Refereed

### **Conference Proceedings**

*Conference Proceeding*

Kusakula, N., Gangavaram, N., Torres, L., Funk, R. J., Aktas, M. E. (2025). Beyond Pairwise Links: Hypergraph Modeling for Scientific Trend Forecasting. *Lecture Notes in Social Networks* (pp. 298-312). Proceedings of the 17th International Conference on Advances in Social Networks Analysis and Mining - ASONAM 2025. [https://doi.org/10.1007/978-3-032-13509-4\\_23](https://doi.org/10.1007/978-3-032-13509-4_23)Peer Review - Refereed

*Conference Proceeding*

Fanning, C., Verkouteren, C., Sawadogo, D., Aktas, M. E. . *LAI-Pool: Persistent Homology-Informed Graph Neural Networks for Predicting Mortality in ICU Patients*. Proceedings of The Fourteenth International Conference on Complex Networks and their Applications: COMPLEX NETWORKS 2025.Peer Review - Refereed

*Conference Proceeding*

Aktas, M. E., Ahsen, M., Poranki, S., Namdeo, A., Akbas, E. (2025). *No One-Size-Fits-All: Modeling Influencer Effectiveness on Social Networks via Sheaf Diffusion*. Proceedings of The Fourteenth International Conference on Complex Networks and their Applications: COMPLEX NETWORKS 2025.Peer Review - Refereed

*Conference Proceeding*

Saifuddin, K., Akbas, E., Aktas, M. E. (2025). *Topology-guided hypergraph transformer network: Unveiling structural insights for improved representation*. Pacific Rim International Conference on Artificial Intelligence (PRICAI).Peer Review - Refereed

*Conference Proceeding*

Verkouteren, C., Sawadogo, D., Akbas, E., Aktas, M. E. (2025). Identifying Top Performing Providers: A Sheaf-theoretic Approach on Healthcare Networks. *Proceedings of the 16th ACM International Conference on Bioinformatics, Computational Biology, and Health Informatics* (pp. 1-6). ACM. <https://doi.org/10.1145/3765612.3767243>Peer Review - Refereed

*Conference Proceeding*

Aktas, M. E., Moradi, I., Cosar, I., Goyal, Y., Alyaz, A., Akbas, E., Ahsen, M. (2025). Expert Detection on Crowdsourcing Forums via Sheaf Laplacian. *2025 IEEE 12th International Conference on Data Science and Advanced Analytics (DSAA)* (pp. 1-10). IEEE. <https://doi.org/10.1109/dsaa65442.2025.11247970>Peer Review - Refereed

*Conference Proceeding*

Aktas, M. E., Moradi, I., Akbas, E., Boyno, M. (2025). Finding Healthcare Provider Experts via Sheaf Laplacian. *2025 IEEE Conference on Computational Intelligence in Bioinformatics and Computational Biology (CIBCB)* (pp. 1-8). IEEE. <https://doi.org/10.1109/cibcb66090.2025.11177091>Peer Review - Refereed

**Brown, Austin (Associate Professor)**

***Refereed Journal Articles***

*Journal Article, Academic Journal*

Brown, A., Muritala, F., Haller, A. . A Quality Monitoring Approach to Evaluating Reinjury Likelihood to Major League Baseball Pitchers. *Research in Sports Medicine*, ., Acceptance Rate: 5%, Impact Factor: 1.9Peer Review - Refereed

*Journal Article, Academic Journal*

Louis, K., White, A., Brown, A. (2025). Nursing Students' Enhanced Cultural Competence after Study Abroad: Mixed Methods Study. *Journal of Nursing Education*, 14(4), 3819-3829, ., Impact Factor: 1.6Peer Review - Refereed

*Journal Article, Academic Journal*

Geil, M., Cannoy, J., Stockwell, E., Coulter, C., Knapp, M., Blackwelder, L., Northway, L., Brown, A. (2025). Understanding Weightbearing Symmetries During Crawling in Typically Developing Infants and Infants with Limb Loss. *Symmetry*, 17(9), 1558, ., Impact Factor: 2.2Peer Review - Refereed

*Journal Article, Academic Journal*

Geil, M., Cannoy, J., Stockwell, E., Coulter, C., Knapp, M., Blackwelder, L., Northway, L., Brown, A. (2025). Understanding Weightbearing Symmetries during Crawling in Typically-Developing Infants and Infants with Limb Loss. *Symmetry*, ., Impact Factor: 2.2Peer Review - Refereed

**DeMaio, Joseph D. (Professor)**

***Conference Proceedings***

*Conference Proceeding*

Greski, C., DeMaio, J. D. (2025). *Proc Optgraph, the Traveling Salesman Problem and Map Drawing* (SESUG 2025 ed.). Cary, NC: SAS. [https://www.lexjansen.com/sesug/2025/78\\_Final\\_PDF.pdf](https://www.lexjansen.com/sesug/2025/78_Final_PDF.pdf)Peer Review - Refereed

*Conference Proceeding*

DeMaio, J. D., Frankel, M., Doan, L., Faix, J.-P., Montgomery, A. (2025). *s Hockey still Canada's game? How USA teams have won every Stanley Cup since 1994.* Cary, NC:

**DiPietro, Michele (Professor)**

**Books**

*Book, Scholarly-New*

Di Pietro, M. (2025). *The Faculty Guide to a Balanced and Harmonious Career: Yogic Strategies for Self-Growth and Fulfillment*. Routledge. 3211 Campus Loop RdEditorial Review

**Ferguson, Nicole N. (Professor)**

**Refereed Journal Articles**

*Journal Article, Professional Journal*

Ferguson, A. N., Howard, M. G., Gittner, K. B., Pacheco, T. M., Jones, B. D., Olsen, I. E., Clark, R. H., Woo, J. G. (2025). Association between Infant Birth Size Classification and Development of Morbidities in the Neonatal Intensive Care Unit (NICU): A Cohort Study. *Neonatology*, 1-18, ., Acceptance Rate: 20%, Impact Factor: 3.0, <https://doi.org/10.1159/000549870>Peer Review - Refereed

**Frankel, Michael (Principal Lecturer)**

**Conference Proceedings**

*Conference Proceeding*

DeMaio, J. D., Frankel, M., Doan, L., Faix, J.-P., Montgomery, A. (2025). *s Hockey still Canada's game? How USA teams have won every Stanley Cup since 1994.*. Cary, NC: SESUG 2025. [https://www.lexjansen.com/sesug/2025/129\\_Final\\_PDF.pdf](https://www.lexjansen.com/sesug/2025/129_Final_PDF.pdf)Peer Review - Refereed

**Ghosh, Dhrubajyoti (Assistant Professor)**

**Refereed Journal Articles**

*Journal Article, Academic Journal*

Ghosh, D., Boettcher, W. A., Johnston, R., Lahiri, S. (2025). THANOS: A Predictive Model of Electoral Campaigns Using Twitter Data and Opinion Polls. *Data Science in Science*, 4(1), ., <https://doi.org/10.1080/26941899.2025.2484180>Peer Review - Refereed

*Journal Article, Academic Journal*

Ghosh, D. (2025). Assessing air quality extremes: a comparative extreme value analysis of metropolitan cities across India and the world. *Environmental Monitoring and Assessment*, .Peer Review - Refereed

*Journal Article, Academic Journal*

Ghosh, D. (2025). Polyspectral mean based time series clustering of Indian stock market. *Discover Data*, .Peer Review - Refereed

*Journal Article, Academic Journal*

Xu, X., Ghosh, D., Luo, S. (2025). A Novel Longitudinal Rank-Sum Test for Multiple Primary Endpoints in Clinical Trials: Applications to Neurodegenerative Disorders. *Statistics in Biopharmaceutical Research*, 17(4), 616-626, ., <https://doi.org/10.1080/19466315.2025.2458018>Peer Review - Refereed

*Journal Article, Academic Journal*

Ghosh, D., Luo, S. (2025). A non-parametric U-statistic testing approach for multi-arm clinical trials with multivariate longitudinal data. *Journal of Multivariate Analysis*, 209, 105447, ., <https://doi.org/10.1016/j.jmva.2025.105447>Peer Review - Refereed

*Journal Article, Academic Journal*

Ghosh, D., Xu, X., Luo, S. (2025). Power and Sample Size Calculation for Multivariate Longitudinal Trials Using the Longitudinal Rank Sum Test. *Statistics in Medicine*, 44(20-22), ., <https://doi.org/10.1002/sim.70261>Peer Review - Refereed

*Journal Article, Academic Journal*

Ghosh, D., Pal, S., Lutz, M., Luo, S. (2025). Ensemble survival analysis for preclinical cognitive decline prediction in Alzheimer's disease using longitudinal biomarkers. *Journal of Alzheimer's Disease*, ., <https://doi.org/10.1177/13872877251365621>Peer Review - Refereed

*Journal Article, Academic Journal*

Tushar, F. I., Vancoillie, L., McCabe, C., Kavuri, A., Dahal, L., Harrawood, B., Fryling, M., Zarei, M., Sotoudeh-Paima, S., Ho, F. C., Ghosh, D., Harowicz, M. R., Tailor, T. D., Luo, S., Segars, W. P., Abadi, E., Lafata, K. J., Lo, J. Y., Samei, E. (2025). Virtual lung screening trial (VLST): An in silico study inspired by the national lung screening trial for lung cancer detection. *Medical Image Analysis*, 103, 103576, ., <https://doi.org/10.1016/j.media.2025.103576>Peer Review - Refereed

*Journal Article, Academic Journal*

Dahal, L., Ghoghnejad, M., Vancoillie, L., Ghosh, D., Bhandari, Y., Kim, D., Ho, F. C., Tushar, F. I., Luo, S., Lafata, K. J., Abadi, E., Samei, E., Lo, J. Y., Segars, W. P. (2025). XCAT 3.0: A comprehensive library of personalized digital twins derived from CT scans. *Medical Image Analysis*, 103, 103636, ., <https://doi.org/10.1016/j.media.2025.103636>Peer Review - Refereed

*Journal Article, Academic Journal*

Mayan, I., Roth, H., Ghosh, D., Whitson, H. E., Johnson, K. G. (2025). Genetic and biomarker disclosure process in a memory and aging study. *Journal of Alzheimer's Disease*, 104(2), 312-318, ., <https://doi.org/10.1177/13872877251315957>Peer Review - Refereed

**Gittner, Kevin B. M. (Assistant Professor)**

### **Refereed Journal Articles**

*Journal Article, Academic Journal*

Lewis, A., Gittner, K., A\_TEST, F. (2026). Fraud Detection in Incentive-Based Online Surveys Through Follow-up Demographic Verification. *American Journal of Undergraduate Research*, 22(4), 3, ., <https://doi.org/10.33697/ajur.2025.156>Peer Review - Refereed

*Journal Article, Professional Journal*

Ferguson, A. N., Howard, M. G., Gittner, K. B., Pacheco, T. M., Jones, B. D., Olsen, I. E., Clark, R. H., Woo, J. G. (2025). Association between Infant Birth Size Classification and Development of Morbidities in the Neonatal Intensive Care Unit (NICU): A Cohort Study. *Neonatology*, 1-18, ., Acceptance Rate: 20%, Impact Factor: 3.0, <https://doi.org/10.1159/000549870>Peer Review - Refereed

*Journal Article, Academic Journal*

Swahn, M., Palmier, J., Natuhama, C., Mobley, K., Gittner, K., Lyons, M., Bbosa, G., Matovu, G., Mubiru, F., Kavuma, A. (2025). Prevalence and comorbidity of mental health concerns, alcohol and drug use among young women in the urban slums of Kampala, Uganda: findings from the TOPOWA study. *BMC Public Health*, ., Impact Factor: 3.6Peer Review - Refereed

*Journal Article, Academic Journal*

Natuhama, C., Nabukalu, E., Lyons, M., Gittner, K., Palmier, J., Culbreth, R., Swahn, M. (2025). Effect of Social Perspectives in the Relationship Between Suicidality and Depression Among Young Women in Slums of Kampala, Uganda. *BMC Psychiatry*, ., Impact Factor: 3.6Peer Review - Refereed

*Journal Article, Academic Journal*

Lyons, M., Palitsky, R., Gittner, K., Kavuma, A., Hall, W., Palmier, J., Swahn, M. (2025). Social Drivers of Infectious Disease Transmission and Treatment Among Young Women in Kampala, Uganda's Informal Settlements: A Qualitative Analysis of Focus Group Data From a Community-Based Cohort Study. *Health Promotion Practice*, ., Impact Factor: 1.6Peer Review - Refereed

**Other Intellectual Contributions**

*Dataset Collected Through Primary Data Collection (Recognized as Scholarly Product in SDSA P&T Guidelines)*

Gittner, K., Matheny, L., Barski, A., Truong, A. (2025). *AI Use in Education (2025 dataset)*. na.No Review

*Dataset Collected Through Primary Data Collection (Recognized as Scholarly Product in SDSA P&T Guidelines)*

Gittner, K., Matheny, L., Barski, A., Truong, A., Dabiri, I., Hutchison, S. (2025). *The \$20 Liar Fraud Study (2025 dataset)*. na.No Review

*Policy Brief/White Paper*

N. O., Gittner, K., Matheny, L. . *COSTAR-A an update to the COSTAR framework for localize LLMs*. Computer Science archive. <https://info.arxiv.org/help/cs/index.html>No Review

**Grundlingh, Nina (Lecturer)**

**Refereed Journal Articles**

*Journal Article, Professional Journal*

Ruegg, T., Wyatt, C., Grundlingh, N. (2025). Can volunteerism spark oncology nursing interest while addressing cancer disparities? A pilot. *Canadian Oncology Nursing Journal*, 35(6), 885-897. *Canadian Oncology Nursing Journal*,, 35(6), 885-897, .Peer Review - Refereed

*Journal Article, Professional Journal*

Ruegg, T., Wyatt, C., Grundlingh, N. (2025). Can Volunteerism Related to Cancer Disparities Spark Interest in Oncology Nursing? A Pilot Study. *Canadian Oncology Nursing Journal*, 35(6), 885-890, ., Acceptance Rate: 40, Impact Factor: 1.6, <https://www.canadianoncologynursingjournal.com/index.php/conj/article/view/1679/1364Peer Review - Refereed>

### **Huang, Jiajing (Assistant Professor)**

#### ***Refereed Journal Articles***

*Journal Article, Academic Journal*

Huang, J., Patharkar, A., Al-Hindawi, F., Joshi, A. M., Wu, T., Wen, J., O'Neill, Z., Candan, K. S. . EE-GFE: An Information-Entropy Graph-Based Feature Extraction Approach for Cross-Datasets Fault Detection in Building Hvac Systems. *Elsevier BV*, ., <https://doi.org/10.2139/ssrn.5111469Peer Review - Refereed>

### **Karami, Amir (Associate Professor)**

#### ***Refereed Journal Articles***

*Journal Article, Academic Journal*

Karami, A. (2025). A dual typology of social media interventions and deterrence mechanisms against misinformation. *Harvard Kennedy School Misinformation Review*, ., Impact Factor: 7.6Peer Review - Refereed

*Journal Article, Academic Journal*

Karami, A. (2025). Computationally Intensive Qualitative Research: Moving Beyond the Dominance of Digital Trace Data. *Journal of the Association for Information Systems*, ., Impact Factor: 7.4Peer Review - Refereed

*Journal Article, Academic Journal*

Karami, A. (2025). Navigating the muddy waters of bias in artificial intelligence research: Understanding divergent meanings and conceptions. *Technology in Society*, ., Impact Factor: 12.5Peer Review - Refereed

*Journal Article, Academic Journal*

Karami, A. (2025). Unveiling the information mirage: a systematic literature review of health misinformation on social media. *Journal of Public Health*, ., Impact Factor: 1.6, <https://link.springer.com/article/10.1007/s10389-025-02639-2Peer Review - Refereed>

### **Luo, Bin (Assistant Professor)**

#### ***Refereed Journal Articles***

*Journal Article, Academic Journal*

Luo, B. (2025). Relationship Among DNA Damage Response Gene Alterations, Molecular Subtypes, and Survival Outcomes in Patients With Metastatic Bladder Cancer Treated on CALGB 90601. *JCO Precision Oncology*, .Peer Review - Refereed

*Journal Article, Academic Journal*

Yang, Q., Luo, B., Halabi, S. (2025). Two-step Variable Selection Method for Multiply Imputed Datasets with Survival Outcomes. *Bioengineering*, .Peer Review - Refereed

*Journal Article, Academic Journal*

Halabi, S., Guo, S., Luo, B. (2025). Pathogenic Genomic Alterations in Circulating Tumor DNA Predict Overall Survival in Men with Metastatic Castrate-resistant Prostate Cancer. *European Urology*, .Peer Review - Refereed

*Journal Article, Academic Journal*

Karunamuni, R. J., Luo, B., Wang, Y. (2025). The Half-Quadratic Approach for High-Dimensional Robust M-Estimation. *Journal of Nonparametric Statistics*, .Peer Review - Refereed

*Journal Article, Academic Journal*

Luo, B., Halabi, S. (2025). Variable Selection for Multivariate Failure Time Data via Regularized Sparse-Input Neural Network. *Bioengineering*, .Peer Review - Refereed

## **Matheny, Lauren (Assistant Professor)**

### ***Refereed Journal Articles***

*Journal Article, Academic Journal*

Backus, J. D., Dietrich, A., Jochl, O., Sidrak, J., Matheny, L. M., Haytmanek, T., Clanton, T., Backus, J. D. (2025). Do Outcomes Differ Following Microfracture with Biologic Augmentation with Biocartilage vs Microfracture Alone for the Treatment of Osteochondral Lesions of the Talus? *Foot and Ankle Orthopaedics*, 10(4), .. <https://doi.org/10.1177/2473011425s00212>Peer Review - Refereed

*Journal Article, Academic Journal*

Lewis, A., Gittner, K., Matheny, L. (2025). Fraud Detection in Incentive-Based Online Surveys Through Follow-up Demographic Verification. *American Journal of Undergraduate Research*, 22(4), 3, .. <https://doi.org/10.33697/ajur.2025.156>Peer Review - Refereed

*Journal Article, Academic Journal*

Matheny, L., Clanton, T. O., Backus, J., Waldrop III, N., Briggs, K., Horan, M., Robinson, A. (2025). Development of the Foot and Ankle Activity Level Scale (FAALS): A Clinical Tool for Orthopaedic Surgeons. *Foot and Ankle International*, .. Impact Factor: 3.0Peer Review - Refereed

### ***Conference Proceedings***

*Conference Proceeding*

Keyser, R. S., Li, L., Ergai, A., Nino de Valladares, L. V., Milam, B., Law, J. B., Matheny, L., Dara, S. S. (2025). In E. Gentry, F. Ju, X. Liu (Ed.), *Faculty Perceptions on the Use of Generative AI in Engineering Education* (pp. 5). Marietta: Institute of Industrial and Systems Engineers. 650 Clair Harris RoadPeer Review - Refereed

*Conference Proceeding*

Nino de Valladares, L. V., Alamad, R., Ergai, A., Li, L., Keyser, R. S., Milam, B., Law, J. B., Matheny, L., Martin, A. (2025). In Elizabeth Gentry (Ed.), *Work-in-progress: Adapting*

*engineering education for the future: Exploring generative AI applications and employer expectations*. 2025 IISE Annual Conference. Peer Review - Refereed

### **Other Intellectual Contributions**

*Dataset Collected Through Primary Data Collection (Recognized as Scholarly Product in SDSA P&T Guidelines)*

Gittner, K., Matheny, L., Barski, A., Truong, A. (2025). *AI Use in Education (2025 dataset)*. na.No Review

*Dataset Collected Through Primary Data Collection (Recognized as Scholarly Product in SDSA P&T Guidelines)*

Gittner, K., Matheny, L., Barski, A., Truong, A., Dabiri, I., Hutchison, S. (2025). *The \$20 Liar Fraud Study (2025 dataset)*. na.No Review

*Policy Brief/White Paper*

N. O., Gittner, K., Matheny, L. . *COSTAR-A an update to the COSTAR framework for localize LLMs*. Computer Science archive. <https://info.arxiv.org/help/cs/index.html>No Review

### **Ni, Sherry (Professor)**

#### **Refereed Journal Articles**

*Journal Article, Academic Journal*

Kimitei, S. K., Agiro, D., Ni, X., Ni, H. (2025). Predictive Ability & Explainability of Survival Analysis in Churn Prediction. *Journal of Marketing Analytics*, ., Impact Factor: 3.5Peer Review - Refereed

*Journal Article, Academic Journal*

Wang, Y., Ni, S., Ni, H., Biswas, S. (2025). A Bivariate Model for Correlated and Mixed Outcomes: A Case Study on the Simultaneous Prediction of Credit Risk and Profitability of Peer-to-Peer (P2P) Loans. *Risks*, 13 (2)(33), ., Impact Factor: 1.5Peer Review - Refereed

#### **Other Intellectual Contributions**

*Published Abstract*

Li, J., Mao, L., Wang, H., Wang, Z., Mao, X., Ni, X. (2025). *Benchmarking Foundation Models for Alzheimer's Disease and Related Dementia Detection from Spontaneous Speech* (Supplement\_2 ed., vol. 9). *Innovation in Aging*. <https://doi.org/10.1093/geroni/igaf122.4077>Editorial Review

*Published Abstract*

Mao, X., Wang, H., Mao, L., Li, J., Wang, Z., Ni, X. (2025). *Interpretable Machine Learning for Cognitive Aging: Handling Missing Data and Uncovering Social Determinants* (Supplement\_2 ed., vol. 9). *Innovation in Aging*. <https://doi.org/10.1093/geroni/igaf122.4146>Editorial Review

### **Taasoobshirazi, Gita (Associate Professor)**

**Refereed Journal Articles**

*Journal Article, Academic Journal*

Taasobshirazi, G., Sneha, S. . Assessing Misconceptions in Astronomy: The Use of Ordered Multiple-Choice Items. *Contemporary Mathematics and Science Education*, .. Impact Factor: 1.0Peer Review - Refereed

**Zhang, Xinyan (Associate Professor)**

**Refereed Journal Articles**

*Journal Article, Academic Journal*

Kanda, D., Yin, J., Zhang, X., Samawi, H. (2025). Efficient regression analyses with zero-augmented models based on ranking. *Computational Statistics*, 40(2), 601-632, .. <https://link.springer.com/article/10.1007/s00180-024-01503-3>Peer Review - Refereed