

**Intellectual Contributions  
Kennesaw State University  
January 1, 2024 - December 31, 2024**

**Department of Computer Science**

**Alexiou, Michail (Assistant Professor)**

***Refereed Journal Articles***

*Journal Article, Academic Journal*

Alexiou, M., Bourbakis, N. G. (2025). Kyrtyos: 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

*Journal Article, Academic Journal*

Alexiou, M., Bourbakis, N. G. (2024). Abax: Extracting Mathematical Formulas from Chart Images Using Spatial Pixel Information. *International Journal on Artificial Intelligence Tools*, 33(02), ., <https://doi.org/10.1142/s0218213024500076>Peer Review - Refereed

*Journal Article, Academic Journal*

Alamaniotis, M., Alexiou, M. (2024). Synergism of Fuzzy Leaky Bucket with Virtual Buffer for Large Scale Social Driven Energy Allocation in Emergencies in Smart City Zones. *Electronics*, 13(4), 762, ., <https://doi.org/10.3390/electronics13040762>Peer Review - Refereed

***Conference Proceedings***

*Conference Proceeding*

Kanigiri, S. N., Mekuriyaw, C., Goodman, G., Alexiou, M. (2024). Analyzing the Impact of Preprocessing Techniques on the Efficiency and Accuracy of Sentiment Classification Algorithms. *2024 15th International Conference on Information, Intelligence, Systems & Applications (IISA)* (pp. 1-8). IEEE. <https://doi.org/10.1109/IISA62523.2024.10786699>Peer Review - Refereed

*Conference Proceeding*

Wolfe, J., Pfohl, C., Subramanian, H., Mertoguno, J. S., Alexiou, M. (2024). Recent Advancements in Search-Engine Algorithms for Efficiency, Privacy and Security. *2024 15th International Conference on Information, Intelligence, Systems & Applications (IISA)* (pp. 1-6). IEEE. <https://doi.org/10.1109/IISA62523.2024.10786705>Peer Review - Refereed

*Conference Proceeding*

Karim, M. F., Deng, Y., Niu, L., Ramasubramanian, B., Alexiou, M., Sahabandu, D., Poovendran, R., Mertoguno, S. (2024). Rapid Autonomy Transfer in Reinforcement Learning with a Single Pre- Trained Critic. *2024 IEEE 36th International Conference on Tools with Artificial Intelligence (ICTAI)* (pp. 1000-1007). IEEE. <https://doi.org/10.1109/ictai62512.2024.00143>Peer Review - Refereed

*Conference Proceeding*

Alexiou, M., Ryu, Z., Abawe, G., Mertoguno, S. J. (2024). Recognizing Binary Code Semantics Towards Achieving Software Segmentation. *2024 IEEE 36th International Conference on Tools with Artificial Intelligence (ICTAI)* (pp. 953-961). IEEE. <https://doi.org/10.1109/ictai62512.2024.00137>Peer Review - Refereed

## **Aygun, Ramazan (Associate 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

#### *Journal Article, Professional Journal*

Mhatre, J., Lee, A., Aygun, R. (2024). Frequency-hopping scheduling algorithm for energy-efficient IoT, long-range, wide-area networks. *The journal of Applied Computing and Intelligence (ACI)*, .Peer Review - Refereed

#### *Journal Article, Academic Journal*

Veksler, M., Aygun, R., Akkaya, K., Iyengar, S. (2024). A Convolutional Neural Network Ensemble for Video Source Camera Forensics. *IEEE Multimedia*, 31(2), 26-35, ., doi: 10.1109/MMUL.2024.3372372Peer Review - Refereed

### **Conference Proceedings**

#### *Conference Proceeding*

Patel, A., Aygun, R. (2024). *Functional Validation of Supervised Learning Tasks for Reproducible Machine Learning*. ICSC 2024 (IEEE International Conference on Semantic Computing).Peer Review - Refereed

#### *Conference Proceeding*

Boyapati, M., Aygun, R. (2024). *Semanformer: Semantics-aware Embedding Dimensionality Reduction Using Transformer-Based Models*. ICSC 2024 (IEEE International Conference on Semantic Computing).Peer Review - Refereed

#### *Conference Proceeding*

Boyapati, M., Meesala, L., Aygun, R., Franks, W., Choi, H., Riordan, S., Modgil, G. . *LevelEval: Adaptive Pipeline for Evaluating LLM as a Judge - Analysis on Open LLMs as judges*. AlxDKE 2024 (IEEE International Conference on AI x Data & Knowledge Engineering).Peer Review - Refereed

#### *Conference Proceeding*

Parker, R., Aygun, R. . *Leaky Dropout: Balancing Performance and Overfitting*. AlxDKE 2024 (IEEE International Conference on AI x Data & Knowledge Engineering).Peer Review - Refereed

#### *Conference Proceeding*

Boyapati, M., Meesala, L., Aygun, R., Franks, W., Choi, H., Riordan, S., Modgil, G. . *Qualitative Diagnosis of LLMs as Judges using LevelEval*. The 23rd IEEE International Conference on Machine Learning and Applications (IEEE ICMLA).Peer Review - Refereed

#### *Conference Proceeding*

Afolabi, A., Aygun, R., Tran, T. . *Quantifying Data Difficulty with Polarized K-Entropy for Assessing Machine Learning Models*. IEEE 25th International Conference on Information Reuse and Integration for Data Science.Peer Review - Refereed

*Conference Proceeding*

Mhatre, j., Lee, A., Lee, H. L., Ayygun, R. (2024). *Design and Implementation of Multithreaded CAD-enabled LoRa Simulator for Massive IoT*. IMCOM 2024. Peer Review - Refereed

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

***Refereed Journal Articles***

*Journal Article, Academic Journal*

Borowski, R., Choi, A. (2024). On Bounding the Behavior of Neurons. *International Journal on Artificial Intelligence Tools*, ., <https://www.worldscientific.com/worldscinet/ijait> Peer Review - Refereed

***Conference Proceedings***

*Conference Proceeding*

Sharma, M., Choi, A. (2024). *On Provenance in Topic Models*. ACM Southeast Conference (ACMSE). <https://acmse.net/2024/> Peer Review - Refereed

**Deng, Bobin (Assistant Professor)**

***Refereed Journal Articles***

*Journal Article, Academic Journal*

Deng, B., Nadendla, B. S., Suo, K., Xie, Y., Lo, D. C.-T. (2024). Fixed-point Encoding and Architecture Exploration for Residue Number Systems. *ACM Transactions on Architecture and Code Optimization (TACO)*, . Peer Review - Refereed

*Journal Article, Academic Journal*

Chen, L., Li, Q., Nasif, K. F. A., Xie, Y., Deng, B., Niu, S., Pouriyeh, S., Dai, Z., Chen, J., Xie, C. Y. (2024). AI-Driven Deep Learning Techniques in Protein Structure Prediction. *International Journal of Molecular Sciences*, 25(15), ., Impact Factor: 4.9, <https://www.mdpi.com/1422-0067/25/15/8426> Peer Review - Refereed

***Conference Proceedings***

*Conference Proceeding*

Lo, D. C.-T., Shi, Y., Shahriar, H., Deng, B., Zhang, X., Chen, M.-L. (2024). Practical Considerations of Fully Homomorphic Encryption in Privacy-Preserving Machine Learning. *2024 IEEE International Conference on Big Data (BigData)* (pp. 6330-6335). IEEE. <https://doi.org/10.1109/bigdata62323.2024.10825068> Peer Review - Refereed

*Conference Proceeding*

Nguyen, M. V., Zhao, L., Deng, B., Severa, W., Xu, H., Wu, S. (2024). *The Robustness of Spiking Neural Networks in Communication and its Application towards Network Efficiency in Federated Learning*. IEEE IPCCC 2024. Peer Review - Refereed

*Conference Proceeding*

L. C., K. F. A. N., Deng, B., S. N., Xie, Y. . *Predicting protein-protein binding affinity with deep learning: A comparative analysis of cnn and transformer models*. IEEE. Peer Review - Refereed

*Conference Proceeding*

ISLAM, M. R., Vu, L., Dhar, N., Suo, K., Deng, B. (2024). *Building a Resilient and Sustainable Grid: A Study of Challenges and Opportunities in AI for Smart Virtual Power Plants*. Proceedings of the 2024 ACM Southeast Conference (ACMSE 2024).Peer Review - Refereed

*Conference Proceeding*

Dhar, N., Deng, B., Lo, D. C.-T., Wu, X., Zhao, L., Suo, K. (2024). *An Empirical Analysis and Resource Footprint Study of Deploying Large Language Models on Edge Devices*. Proceedings of the 2024 ACM Southeast Conference (ACMSE 2024).Peer Review - Refereed

*Conference Proceeding*

Gu, Y., Zhao, L., Deng, B., Wu, S. (2024). *Evaluation of Thermal Attack on IoT-based Federated Learning*. Proceedings of the 2024 ACM Southeast Conference (ACMSE 2024).Peer Review - Refereed

*Conference Proceeding*

Deng, B., Zhang, X., Lo, D. C.-T. (2024). *Serverless-DFS: Serverless Federated Learning with Dynamic Forest Strategy*. The 12th International Conference on Networks, Communication and Computing (ICNCC 2023).Peer Review - Refereed

**He, Selena S. (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

*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, Professional Journal*

Liu, F., He, J., He, Y. (2024). *Vision Transformer-based overlay processor for Edge Computing*. *Applied Soft Computing Journal*, 156, .Peer Review - Refereed

*Journal Article, Academic Journal*

Streeter, M., Li, Z., Li, J., Zhang, C., Tian, S., He, S. (2024). *Integrating Virtual and Augmented Reality with Brain-Computer Interfaces for ADHD and ASD Management: A Preliminary Review*. *JOURNAL OF INFORMATION SYSTEMS APPLIED RESEARCH*, 17(1), 33-41, .Peer Review - Refereed

*Journal Article, Professional Journal*

Liu, F., Hu, K., He, J., He, Y. (2024). *A Fault-Tolerant Scheduling Algorithm that Minimizes the Number of Replicas in Heterogeneous Service-Oriented Cloud Computing Systems*. *The Journal of Supercomputing*, 80, 13079-13095, .Peer Review - Refereed

*Journal Article, Professional Journal*

Li, C., He, J., Xie, X. (2024). *A Stacking Model-Based Classification Algorithm Is Used to Predict Social Phobia*. *Applied Sciences*, 14(1), .Peer Review - Refereed

## **Conference Proceedings**

### *Conference Proceeding*

Islam, M. M., He, J. (2024). *Abdominal Trauma Detection using Hybrid Quantum Machine Learning*. BigData 2024. Peer Review - Refereed

### *Conference Proceeding*

He, J. (2024). *Quantum Machine Learning for Computer Vision: A Survey*. ICMLA'24. Peer Review - Refereed

### *Conference Proceeding*

Suo, K., Vu, L., Islam, M. R., Dhar, N., Nguyen, T., He, J., Wu, X. (2024). A Systematic Investigation of Hardware and Software in Electric Vehicular Platform. *Proceedings of the 2024 ACM Southeast Conference* (pp. 9–17). New York, NY, USA: Association for Computing Machinery. <https://doi.org/10.1145/3603287.3651203> Peer Review - Refereed

### *Conference Proceeding*

Vu, L., Suo, K., Islam, M. R., Dhar, N., Nguyen, T., He, J., Shi, Y. (2024). Living on the Electric Vehicle and Cloud Era: A Study of Cyber Vulnerabilities, Potential Impacts, and Possible Strategies. *Proceedings of the 2024 ACM Southeast Conference* (pp. 18–26). New York, NY, USA: Association for Computing Machinery. <https://doi.org/10.1145/3603287.3651209> Peer Review - Refereed

### *Conference Proceeding*

Islam, M. M., He, J. (2024). *A Review on Quantum Machine Learning in Different Computer Vision Fields*. IPCC 2024. Peer Review - Refereed

### *Conference Proceeding*

Razzak, R., Li, J., Sokhadze, E., He, J. (2024). *Evaluating Stress and Driving Performance Using VR and Physiological Data: A Case Study*. 2024 Proceedings of the ISCAP Conference. Peer Review - Refereed

### *Conference Proceeding*

Horton, D., Vu, T., Nguyen, T., Suo, K., Lee, A. Y., He, J., Shi, Y. (2024). *A Hardware-in-the-loop Wireless System Design: Benchmarking NFV Network Services*. IEEE International Workshop on Computer Aided Modeling and Design of Communication Links and Networks. Peer Review - Refereed

### *Conference Proceeding*

Suo, K., Vu, L., ISLAM, M. R., Dhar, N., Nguyen, T., He, S., Wu, X. (2024). *A Systematic Investigation of Hardware and Software in Electric Vehicular Platform*. ACM Southeast (ACMSE) conference 2024. Peer Review - Refereed

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

### **Refereed Journal Articles**

#### *Journal Article, Academic Journal*

Islam, K. A., Wu, H., Xin, C., Ning, R., Zhu, L., Li, J. (2024). Sub-Band Backdoor Attack in Remote Sensing Imagery. *MDPI*. Peer Review - Refereed

#### *Journal Article, Academic Journal*

Tasneem, S., Islam, K. A. (2024). Improve Adversarial Robustness of AI Models in Remote Sensing via Data-Augmentation and Explainable-AI Methods. *Remote Sensing*, 16(17), 3210, ., <https://doi.org/10.3390/rs16173210> Peer Review - Refereed

*Journal Article, Academic Journal*

Lee, S., Islam, K. A., Koganti, S. C., Yaganti, V., Mamillapalli, S. R. S., Vitalos, H., Williamson, D. F. K. (2024). SN-FPN: Self-attention Nested Feature Pyramid Network for Digital Pathology Image Segmentation. *IEEE Access*, 12, 92764-92773, ., Acceptance Rate: 27, Impact Factor: 3.4, <https://ieeexplore.ieee.org/document/10584528>Peer Review - Refereed

### **Conference Proceedings**

*Conference Proceeding*

Ravikumar, S., Tasneem, S., Sakib, N., Islam, K. A. (2024). Securing AI of Healthcare: A Selective Review on Identifying and Preventing Adversarial Attacks. *2024 IEEE Opportunity Research Scholars Symposium (ORSS)* (pp. 75-78). IEEE. <https://doi.org/10.1109/orss62274.2024.10697946>Peer Review - Refereed

*Conference Proceeding*

Ahamed, S. F., Islam, K. A., Shetty, S. (2024). Targeted Transfer Learning: Leveraging Optimal Transport for Enhanced Knowledge Transfer. *2024 International Conference on Computing, Networking and Communications (ICNC)* (pp. 506-510). IEEE. <https://doi.org/10.1109/icnc59896.2024.10556294>Peer Review - Refereed

## **Islam, Rifatul (Assistant Professor)**

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

*Journal Article, Academic Journal*

Tasnim, U., Islam, R., Desai, K., Quarles, J. (2024). Investigating Personalization Techniques for Improved Cybersickness Prediction in Virtual Reality Environments.

### **Conference Proceedings**

*Conference Proceeding*

Islam, M. J., Islam, R. (2024). Towards optimized cybersickness prediction for computationally constrained standalone virtual reality devices. *2024 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW)* (pp. 1003--1004).

## **Ji, Yiming (Professor)**

### **Refereed Journal Articles**

*Journal Article, Academic Journal*

Yavas, C. E., Chen, L., Kadlec, C., Ji, Y. (2024). Improving earthquake prediction accuracy in Los Angeles with machine learning. *Scientific Reports*, 14(1), ., <https://doi.org/10.1038/s41598-024-76483-x>Peer Review - Refereed

*Journal Article, Academic Journal*

Cemil, Y., Chen, L., Kadlec, C., Ji, Y. (2024). Predictive Modeling of Earthquakes in Los Angeles with Machine Learning and Neural Networks. *IEEE Access*, 12, 108673-108702, ., <https://ieeexplore.ieee.org/document/10623344>Peer Review - Refereed

*Journal Article, Academic Journal*

Ji, Y., Marian, A., Montie, E. (2024). Deep-learning-based detection of recreational vessels in an estuarine soundscape in the May River, South Carolina, USA. *PLoS ONE*, 19(7), ., Impact Factor: 2.9, <https://doi.org/10.1371/journal.pone.0302497>Peer Review - Refereed

### **Conference Proceedings**

#### *Conference Proceeding*

Elelegwu, D., Chen, L., Ji, Y., Kim, J. (2024). *A Novel Approach to Detecting and Mitigating Keyloggers* (pp. 1583-1590). Atlanta: IEEE SoutheastCon. <https://ieeexplore.ieee.org/document/10500122>Peer Review - Refereed

#### *Conference Proceeding*

Ajuluchukwu, M., Shalan, A., Chen, L., Ji, Y., Balogun, E. (2024). *Low-Resolution Image Enhancement using Generative Adversarial Networks*. (pp. 213-218). Melbourne: IEEE Annual Congress on Artificial Intelligence of Things (AloT).Peer Review - Refereed

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

#### **Refereed Journal Articles**

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

Kota, J. S., Karakaya, M. (2024). Off-angle to Frontal Iris Image Transformation using Pix2Pix Generative Adversarial Networks. *Journal of Electronic Imaging*, 33(5), .Peer Review - Refereed

#### **Conference Proceedings**

##### *Conference Proceeding*

Tebor, D., Headley, E., Karakaya, M. (2024). *Impact of Blinking on Deep Learning Based Iris Recognition*. ACM Southeast Conference.Peer Review - Refereed

##### *Conference Proceeding*

Headley, E., Tebor, D., Karakaya, M. (2024). *How Eye Blink Affects the Recognition Performance of Traditional Off-Angle Iris Images*. IEEE Southeast Conference.Peer Review - Refereed

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

#### **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

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

Nweke, F., Azmee, A. A., Khan, M. A. A. H., Pei, Y., Thomas, D., Nandan, M. (2024). A transformer-driven framework for multi-label behavioral health classification in police narratives. *AIMS Press ACI journal*, 4(2), 234-252, ., Acceptance Rate: 19%, Impact Factor: H-Index 38, <https://www.aimspress.com/article/doi/10.3934/aci.2024014?viewType=HTML>Peer Review - Refereed

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

Murikipudi, M., Azmee, A. A., Khan, M. A. A. H., Pei, Y. (2024). CBSA: A Deep Transfer Learning Framework for Assessing Post-Stroke Exercises. *IEEE CHASE*, .Peer Review - Refereed

*Journal Article, Academic Journal*

Attota, D., Azmee, A. A., Khan, M. A. A. H., Pei, Y., Thomas, D., Nandan, M. (2024). Semantic learning and attention dynamics for behavioral classification in police narratives. *Smart Health*, 32, 100479, ., Acceptance Rate: 23%, <https://doi.org/10.1016/j.smhl.2024.100479>Peer Review - Refereed

*Journal Article, Academic Journal*

Brown, M., Azmee, A. A., Khan, M. A. A. H., Thomas, D., Pei, Y., Nandan, M. (2024). Adaptive attention-aware fusion for human-in-the-loop behavioral health detection. *Smart Health*, 32, 12, ., Acceptance Rate: 23, <https://doi.org/10.1016/j.smhl.2024.100475>Peer Review - Refereed

**Conference Proceedings**

*Conference Proceeding*

Dargan, C., Nweke, F., Khan, M. A. A. H., Azmee, A. A., Pei, Y. (2024). *Automated Alphabet Detection from Brain Waves*. ACMSE 2024: Proceedings of the 2024 ACM Southeast Conference.Peer Review - Refereed

*Conference Proceeding*

Pederson, M., Azmee, A. A., Khan, M. A. A. H., Pei, Y., Thomas, D., Nandan, M. (2024). *Combined Correlational Network for Identifying Behavioral Health Cases from First Responder Report*. IEEE Bigdata.Peer Review - Refereed

*Conference Proceeding*

Brown, M., Thomas, D., Khan, M. A. A. H., Azmee, A. a., Nandan, M., Pei, Y. (2024). *Demo: CaseFinder: Automated Visual and Quantitative Analysis Tool for Police Narrative*. IEEE Bigdata.Peer Review - Refereed

*Conference Proceeding*

Azmee, A. A., Nweke, F., Khan, M. A. A. H., Pei, Y., Thomas, D., Nandan, M. (2024). *Domain Knowledge-Driven Multi-Label Behavioral Health Identification from Police Report*.. IEEE Bigdata.Peer Review - Refereed

*Conference Proceeding*

Nweke, F., Azmee, A. A., Khan, M. A. A. H., Pei, Y., Thomas, D., Nandan, M. (2024). *Explainable Multi-Label Classification Framework for Behavioral Health Based on Domain Concepts*.. IEEE Bigdata.Peer Review - Refereed

*Conference Proceeding*

Stigall, W., Khan, M. A. A. H., Attota, D., Nweke, F., Pei, Y. (2024). *Large Language Models Performance Comparison of Emotion and Sentiment Classification*. ACMSE 2024: Proceedings of the 2024 ACM Southeast Conference.Peer Review - Refereed

*Conference Proceeding*

Jonnalagadda, R. S., Azmee, A. A., Attota, D., Khan, M. A. A. H., Pei, Y. (2024). *Poster: Extracting and Annotating Mental Health Forum Corpus: A Comprehensive Validation Pipeline*. IEEE CHASE.Peer Review - Refereed

*Conference Proceeding*

Brown, M., Azmee, A. a., Khan, M. A. A. H., Thomas, D., Pei, Y., Nandan, M. (2024). *Adaptive Attention Aware Fusion Model with Uncertainty Based Informative Sample*

*Clustering in Active Learning*. IEEE/ACM international conference on Connected Health: Applications, Systems and Engineering Technologies (CHASE) 2024. Peer Review - Refereed

*Conference Proceeding*

Azmeem, A. A., Attota, D., Nweke, F., Khan, M. A. A. H., Pei, Y. (2024). *Attention Driven Framework for Detecting Mental Illness Causes from Social Media*. ACMSE 2024: Proceedings of the 2024 ACM Southeast Conference. Peer Review - Refereed

*Conference Proceeding*

Gopi, S., Dehbozorgi, N., Khan, M. A. A. H. (2024). *Exploring the Impact of CM-II Meditation on Stress Levels in College Students through HRV Analysis*. ASEE SE. Peer Review - Refereed

**Other Intellectual Contributions**

*Published Abstract*

Jacobs, S., Khan, M. A. A. H. (2024). In KSU C-Day (Ed.), *Exploring Neural Networks for Breast Cancer Tissue Classification*. Marietta, Georgia: KSU Symposium (Spring 2024). <https://digitalcommons.kennesaw.edu/undergradsymposiumksu/spring2024/spring2024/39/> Peer Review - Refereed

*Published Abstract*

Rogannagari, R. K., Gunturu, S. P. K., Sripathi, L. N. N., Khan, M. A. A. H. (2024). In KSU Symposium (Ed.), *GMC-146 Legal-Insight - Legal text summarizer*. Marietta, Georgia: KSU C-Day (Fall 2024). <https://digitalcommons.kennesaw.edu/cgi/viewcontent.cgi?article=1507&context=cdayPeerReview> - Refereed

*Published Abstract*

Xu, T., Lisasi, R. P., Wu, P., Khan, M. A. A. H. (2024). In KSU C-Day (Ed.), *GMR-124 Emotion-Based Synthetic Feature Binary Classification of Human vs LLM Generated Text/Essay*. Marietta, Georgia: KSU C-Day (Fall 2024). <https://digitalcommons.kennesaw.edu/cgi/viewcontent.cgi?article=1491&context=cdayPeerReview> - Refereed

*Published Abstract*

Potluri, S. S., Khan, M. A. A. H. (2024). In KSU C-Day (Ed.), *GMR-159 LLM enabled Synthetic dataset generation for Human-AI teaming Algorithm*. Marietta, Georgia: KSU C-Day (Fall 2024). <https://digitalcommons.kennesaw.edu/cgi/viewcontent.cgi?article=1492&context=cdayPeerReview> - Refereed

*Published Abstract*

Yepuri, K., Mahankali, N., Khan, M. A. A. H. (2024). In KSU C-Day (Ed.), *GMR-196 Integrated Sentiment and Behavioral Analysis of Online Product Reviews*. Marietta, Georgia: KSU C-Day (Fall 2024). <https://digitalcommons.kennesaw.edu/cgi/viewcontent.cgi?article=1494&context=cdayPeerReview> - Refereed

*Published Abstract*

Pederson, M. V., Azmeem, A. A., Nweke, F. E., Khan, M. A. A. H., Pei, Y. (2024). In KSU C-Day (Ed.), *GMR-208 Automatic Categorization of Behavioral Health Issues in Police reports*. Marietta, Georgia: KSU C-Day (Fall 2024). <https://digitalcommons.kennesaw.edu/cgi/viewcontent.cgi?article=1495&context=cdayPeerReview> - Refereed

*Published Abstract*

Satish,, R., Challa,, A., Khan, M. A. A. H. (2024). In KSU C-Day (Ed.), *GMR-229 Semantic Search using Sentence Transformers*. Marietta, Georgia: KSU C-Day (Fall 2024).  
<https://digitalcommons.kennesaw.edu/cgi/viewcontent.cgi?article=1499&context=cdayPeerReview> - Refereed

*Published Abstract*

Regan,, C. M., Verma,, N., Khan, M. A. A. H. (2024). In KSU C-Day (Ed.), *GPR-151 Compassionate Digital Assistant: Anchor*. Marietta, Georgia: KSU C-Day (Fall 2024).  
<https://digitalcommons.kennesaw.edu/cgi/viewcontent.cgi?article=1481&context=cdayPeerReview> - Refereed

*Published Abstract*

Azmeem, A. A., Attota, D. C., Nweke, F. E., Khan, M. A. A. H., Pei, Y. (2024). In KSU C-Day (Ed.), *GPR-16 Attention Driven Framework for Detecting Mental Illness Causes from Social Media*. Marietta, Georgia: KSU C-Day (Spring 2024).  
<https://digitalcommons.kennesaw.edu/cgi/viewcontent.cgi?article=1386&context=cdayPeerReview> - Refereed

*Published Abstract*

Nweke, F. E., Azmeem, A. A., Khan, M. A. A. H. (2024). In KSU C-Day (Ed.), *GPR-18 Case Exploration: Automatic Keyword Matching Framework for Behavioral Health*. Marietta, Georgia: KSU C-Day (Spring 2024).  
[https://digitalcommons.kennesaw.edu/cday/Spring\\_2024/PhD\\_Research/5/PeerReview](https://digitalcommons.kennesaw.edu/cday/Spring_2024/PhD_Research/5/PeerReview) - Refereed

*Published Abstract*

Nweke,, F. E., Azmeem,, A. A., Khan, M. A. A. H., Pei, Y., Thomas, D., Nandan, M. (2024). In KSU C-Day (Ed.), *GPR-2212 Explainable Multi-Label Classification Framework for Behavioral Health Based on Domain Concepts*. Marietta, Georgia: KSU C-Day (Fall 2024).  
<https://digitalcommons.kennesaw.edu/cgi/viewcontent.cgi?article=1486&context=cdayPeerReview> - Refereed

*Published Abstract*

Azmeem,, A. A., Nweke,, F. E., Pederson,, M. V., Khan, M. A. A. H., Pei, Y. (2024). In KSU C-Day (Ed.), *GPR-233 Human-Assisted AI for Detecting Mental Health Indicators in Social Media*. Marietta, Georgia: KSU C-Day (Fall 2024).  
<https://digitalcommons.kennesaw.edu/cgi/viewcontent.cgi?article=1488&context=cdayPeerReview> - Refereed

*Published Abstract*

Brown, M., Azmeem, A. A., Khan, M. A. A. H., Thomas, D. (2024). In KSU C-Day (Ed.), *GPR-63 Adaptive Attention Aware Fusion for Human-in-Loop Behavioral Health Detection*. Marietta, Georgia: KSU C-Day (Spring 2024).  
<https://digitalcommons.kennesaw.edu/cgi/viewcontent.cgi?article=1388&context=cdayPeerReview> - Refereed

*Published Abstract*

Cuevas, G., Hasan, Y., Azmeem, A. A., Khan, M. A. A. H. (2024). In KSU C-Day (Ed.), *Human-AI Collaboration for Mental Health: Combining AI and Human Expertise to Understand the Underlying Causes of Mental Health Concerns*. Marietta, Georgia: KSU Symposium (Spring 2024).  
<https://digitalcommons.kennesaw.edu/undergradsymposiumksu/spring2024/spring2024/1/PeerReview> - Refereed

*Published Abstract*

Sutherland, T., Khan, M. A. A. H. (2024). In KSU symposium (Ed.), *Leveraging Neural Machine Translation Models for Japanese to English Translation Prediction*. Marietta, Georgia: KSU Symposium (Spring 2024).  
[https://digitalcommons.kennesaw.edu/undergradsymposiumksu/spring2024/spring2024/51/Peer Review - Refereed](https://digitalcommons.kennesaw.edu/undergradsymposiumksu/spring2024/spring2024/51/Peer%20Review%20-%20Refereed)

*Published Abstract*

Walker, H. N., Stigall, S. W. A., Perry, S., Khan, M. A. A. H. (2024). In KSU C-Day (Ed.), *UC-85 HELPR: Helping Extrapolate Labels for Police Reports using Large Language Models*. Marietta, Georgia: KSU C-Day (Spring 2024).  
[https://digitalcommons.kennesaw.edu/cgi/viewcontent.cgi?article=1430&context=cdayPeer Review - Refereed](https://digitalcommons.kennesaw.edu/cgi/viewcontent.cgi?article=1430&context=cdayPeer%20Review%20-%20Refereed)

*Published Abstract*

Prasad, K., Khan, M. A. A. H. (2024). In KSU C-Day (Ed.), *UR-172 A Comparative Study of LLM Effectiveness in Mental Health Assistance*. Marietta, Georgia: KSU C-Day (Fall 2024).  
[https://digitalcommons.kennesaw.edu/cgi/viewcontent.cgi?article=1443&context=cdayPeer Review - Refereed](https://digitalcommons.kennesaw.edu/cgi/viewcontent.cgi?article=1443&context=cdayPeer%20Review%20-%20Refereed)

*Published Abstract*

Duong, A., Muse, H., Castro, C., Khan, M. A. A. H. (2024). In KSU Symposium (Ed.), *UR-239 Human-AI Annotator Tool*. Marietta, Georgia: KSU C-Day (Fall 2024).  
[https://digitalcommons.kennesaw.edu/cgi/viewcontent.cgi?article=1445&context=cdayPeer Review - Refereed](https://digitalcommons.kennesaw.edu/cgi/viewcontent.cgi?article=1445&context=cdayPeer%20Review%20-%20Refereed)

*Published Abstract*

Gueye, I., Khan, M. A. A. H. (2024). In KSU symposium (Ed.), *Utilizing Natural Language Processing to Identify Suicide Attempt and Ideation in Text*. Marietta, Georgia: KSU Symposium (Spring 2024).  
[https://digitalcommons.kennesaw.edu/undergradsymposiumksu/spring2024/spring2024/204/Peer Review - Refereed](https://digitalcommons.kennesaw.edu/undergradsymposiumksu/spring2024/spring2024/204/Peer%20Review%20-%20Refereed)

**Lee, Ahyoung (Assistant Professor)**

***Refereed Journal Articles***

*Journal Article, Professional Journal*

Mhatre, J., Lee, A., Aygun, R. (2024). Frequency-hopping scheduling algorithm for energy-efficient IoT, long-range, wide-area networks. *The Journal of Applied Computing and Intelligence (ACI)*, .Peer Review - Refereed

*Journal Article, Professional Journal*

Mao, M., Lee, A. Y., Hong, M. (2024). Deep Learning Innovations in Video Classification: A Survey on Techniques and Dataset Evaluations. *The Journal of Electronics*, .Peer Review - Refereed

***Conference Proceedings***

*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>

*Conference Proceeding*

Mhatre, J., Nguyen, M., Lee, A., Lee, H. L. (2024). *Experimental Analysis of LoRaWAN for Optimizing Water Quality Monitoring with Reinforcement Learning-Driven Scheduling*. The 43rd IEEE International Performance Computing and Communications Conference (IPCCC 2024). <https://ipccc.org/Peer Review - Refereed>

*Conference Proceeding*

Mhatre, J., Lee, A., Lee, H. L., Nguyen, T., Suo, K. (2024). *Improving Energy Efficiency and Reliability by Optimizing Gateway Placement in Dense LoRaWAN Networks*. IEEE 10th World Forum on Internet of Things (WF-IoT) 2024. Peer Review - Refereed

*Conference Proceeding*

Horton, D., Vu, T., Nguyen, T., Suo, K., Lee, A. Y., He, J., Shi, Y. (2024). *A Hardware-in-the-loop Wireless System Design: Benchmarking NFV Network Services*. IEEE International Workshop on Computer Aided Modeling and Design of Communication Links and Networks. Peer Review - Refereed

*Conference Proceeding*

Nguyen, T., Vu, T. T., Horton, D., Suo, K., Lee, A. Y., He, S., Shi, Y. (2024). *A Hardware-in-the-loop Wireless System Design: Benchmarking NFV Network Services*. IEEE 29th International Workshop on Computer Aided Modeling and Design of Communication Links and Networks (CAMAD). Peer Review - Refereed

*Conference Proceeding*

Subbarao, S. C., Patel, M., Lee, A. Y., Lee, H. (2024). *Cloud-Enabled Mobile App Architecture for Water Quality Monitoring Utilizing Machine Learning Algorithms*. IEEE Opportunity Research Scholar Symposium (ORSS 2024). Peer Review - Refereed

*Conference Proceeding*

White, B., Alvarez, C., Nguyen, J., Thain, W. E., Lee, A., Lee, H. (2024). *RF System Design for Phased Array Beam Steering and Rotational Control of Linear Polarization for Wireless Power Transfer*. IEEE Opportunity Research Scholar Symposium (ORSS 2024). Peer Review - Refereed

*Conference Proceeding*

Mhatre, J., Lee, A., Lee, H. L., Nguyen, T. (2024). *DDPG\_CAD: Intelligent Channel Activity Detection Scheduling in Massive IoT LoRaWAN*. The 10th IEEE International Conference on Network Softwarization (IEEE NetSoft 2024). Peer Review - Refereed

*Conference Proceeding*

Lee, A. Y., Mao, M. (2024). *Enhancing Fabric Classification and Object Detection with YOLOv5*. IEEE 7th International Conference on Knowledge Innovation and Invention 2024 (ICKII 2024). <http://www.ieee-ickii.net/Peer Review - Refereed>

*Conference Proceeding*

Patel, M., Challagundla, S., Lee, A. (2024). *Cloud Mobile Architecture with ML Algorithms for Real-Time Water Quality Monitoring Systems*. Poster at the Georgia State Capitol. Peer Review - Refereed

*Conference Proceeding*

Mhatre, j., Lee, A., Lee, H. L., Aygun, R. (2024). *Design and Implementation of Multithreaded CAD-enabled LoRa Simulator for Massive IoT*. IMCOM 2024. Peer Review - Refereed

**Lee, Sanghoon (Assistant Professor)**

**Refereed Journal Articles**

*Journal Article, Academic Journal*

Lee, S., Islam, K. A., Koganti, S. C., Yaganti, V., Mamillapalli, S. R. S., Vitalos, H., Williamson, D. F. K. (2024). SN-FPN: Self-attention Nested Feature Pyramid Network for Digital Pathology Image Segmentation. *IEEE Access*, 12, 92764-92773, ., Acceptance Rate: 27, Impact Factor: 3.4, <https://ieeexplore.ieee.org/document/10584528>Peer Review - Refereed

**Conference Proceedings**

*Conference Proceeding*

Lee, S., Zhao, Y., Choi, W. (2024). *High-rate emphasized DeepLabV3Plus for Semantic Segmentation of Breast Cancer-related Hematoxylin and Eosin-stained Images* (pp. 1-4). 46th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC). <https://ieeexplore.ieee.org/document/10782325>Peer Review - Refereed

*Conference Proceeding*

Jackson, E., Le, F., Lisbon, J. I., Coleman, M., Burman, J., Wonderley, A., Eshaghian, S., Lee, S. (2024). *Comprehensive Experiments on Breast Cancer Hematoxylin and Eosin-stained Images using UNet* (pp. 121–128). ACM Southeast.Peer Review - Refereed

*Conference Proceeding*

Lee, S., Koganti, S. C., Hwang, I., Woo, M. (2024). *Class probability-guided Ensemble Learning-based Semantic Segmentation to Predict Cancerous Regions on Hematoxylin and Eosin Images*. IEEE Semantic Computing.Peer Review - Refereed

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

**Refereed Journal Articles**

*Journal Article, Academic Journal*

Deng, B., Nadendla, B., Suo, K., Xie, Y., Lo, D. C.-T. (2024). Fixed-point Encoding and Architecture Exploration for Residue Number Systems. *ACM Transactions on Architecture and Code Optimization*, 21(3), 1-27, ., <https://doi.org/10.1145/3664923>Peer Review - Refereed

*Journal Article, Academic Journal*

Deng, B., Nadendla, B. S., Suo, K., Xie, Y., Lo, D. C.-T. (2024). Fixed-point Encoding and Architecture Exploration for Residue Number Systems. *ACM Transactions on Architecture and Code Optimization (TACO)*, .Peer Review - Refereed

**Conference Proceedings**

*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

*Conference Proceeding*

Bharti, S., Lo, D. C.-T., Shi, Y. (2024). Enhancing Contextual Understanding in Knowledge Graphs: Integration of Quantum Natural Language Processing with Neo4j LLM Knowledge Graph. *2024 IEEE International Conference on Big Data (BigData)* (pp. 8628-8630). Marietta: IEEE. <https://doi.org/10.1109/bigdata62323.2024.10826002>Peer Review - Refereed

*Conference Proceeding*

Lo, D. C.-T., Shi, Y., Shahriar, H., Deng, B., Zhang, X., Chen, M.-L. (2024). Practical Considerations of Fully Homomorphic Encryption in Privacy-Preserving Machine Learning. *2024 IEEE International Conference on Big Data (BigData)* (pp. 6330-6335). IEEE. <https://doi.org/10.1109/bigdata62323.2024.10825068>Peer Review - Refereed

*Conference Proceeding*

Yenumala, A., Zhang, X., Lo, D. C.-T. (2024). *Towards More Robust and Scalable Deep Learning Systems for Medical Image Analysis*. IEEE International Conference on Big Data, REU Symposium 2024.Peer Review - Refereed

*Conference Proceeding*

Lo, D. C.-T., Gamess, E. (2024). *ACMSE '24: Proceedings of the 2024 ACM Southeast Conference*. New York, NY: Association for Computing Machinery.Peer Review - Refereed

*Conference Proceeding*

Dhar, N., Deng, B., Lo, D. C.-T., Wu, X., Zhao, L., Suo, K. (2024). *An Empirical Analysis and Resource Footprint Study of Deploying Large Language Models on Edge Devices*. Proceedings of the 2024 ACM Southeast Conference (ACMSE 2024).Peer Review - Refereed

*Conference Proceeding*

Nadendla, B. S., Deng, B., Lo, D. C.-T. (2024). A LUT-based Fixed-Modulo Architecture for Efficient Multipliers of Residue Number System. *2024 2nd Asia Conference on Electronics Engineering (ACEE)* (pp. 30-35). IEEE. <https://doi.org/10.1109/acee62618.2024.00014>Peer Review - Refereed

*Conference Proceeding*

Narnavaram, K. M., Lo, D. C.-T. (2024). *An Open-Source Chatbot by Using ParIAI* (pp. 323-324). ACM.Peer Review - Refereed

*Conference Proceeding*

Deng, B., Zhang, X., Lo, D. C.-T. (2024). *Serverless-DFS: Serverless Federated Learning with Dynamic Forest Strategy*. The 12th International Conference on Networks, Communication and Computing (ICNCC 2023).Peer Review - Refereed

**Mahmud, M. Rasel (Assistant Professor)**

***Refereed Journal Articles***

*Journal Article, Academic Journal*

Mahmud, M. Rasel, Cordova, A., Quarles, J. (2024). Multimodal Feedback Methods for Advancing the Accessibility of Immersive Virtual Reality for People With Balance Impairments Due to Multiple Sclerosis. *IEEE Transactions on Visualization and Computer Graphics*, 30(11), 7193-7202, ., <https://doi.org/10.1109/tvcg.2024.3456189>Peer Review - Refereed

## Nguyen, Tu (Assistant Professor)

### Refereed Journal Articles

#### *Journal Article, Academic Journal*

Nguyen, T., Le, T. V., Nguyen, M. V., Nguyen, H. N., Vu, S. (2024). Optimizing Resource Allocation and VNF Embedding in RAN Slicing. *IEEE Transactions on Network and Service Management*, 21(2), 2187-2199. .Peer Review - Refereed

#### *Journal Article, Academic Journal*

Nguyen, D. H. P., Lin, C.-C., Nguyen, T., S.-I., Liu, B.-H. . Service Recovery in NFV-Enabled Networks: Algorithm Design and Analysis. *IEEE Transactions on Cloud Computing*. .Peer Review - Refereed

### Conference Proceedings

#### *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

#### *Conference Proceeding*

Suo, K., Vu, L., Islam, M. R., Dhar, N., Nguyen, T., He, J., Wu, X. (2024). A Systematic Investigation of Hardware and Software in Electric Vehicular Platform. *Proceedings of the 2024 ACM Southeast Conference* (pp. 9–17). New York, NY, USA: Association for Computing Machinery. <https://doi.org/10.1145/3603287.3651203>Peer Review - Refereed

#### *Conference Proceeding*

Nghiem, N.-V.-d., Le, S.-V., Nguyen, T., Dinh, T. N. (2024). *Haplotype Inference with Pure Parsimony: A Quantum Computing Approach*. IEEE International Conference on Communications. Peer Review - Refereed

#### *Conference Proceeding*

Vu, L., Suo, K., Islam, M. R., Dhar, N., Nguyen, T., He, J., Shi, Y. (2024). Living on the Electric Vehicle and Cloud Era: A Study of Cyber Vulnerabilities, Potential Impacts, and Possible Strategies. *Proceedings of the 2024 ACM Southeast Conference* (pp. 18–26). New York, NY, USA: Association for Computing Machinery. <https://doi.org/10.1145/3603287.3651209>Peer Review - Refereed

#### *Conference Proceeding*

Mhatre, J., Lee, A., Lee, H. L., Nguyen, T., Suo, K. (2024). *Improving Energy Efficiency and Reliability by Optimizing Gateway Placement in Dense LoRaWAN Networks*. IEEE 10th World Forum on Internet of Things (WF-IoT) 2024. Peer Review - Refereed

#### *Conference Proceeding*

Horton, D., Vu, T., Nguyen, T., Suo, K., Lee, A. Y., He, J., Shi, Y. (2024). *A Hardware-in-the-loop Wireless System Design: Benchmarking NFV Network Services*. IEEE International Workshop on Computer Aided Modeling and Design of Communication Links and Networks. Peer Review - Refereed

#### *Conference Proceeding*

Hunt, E., Nguyen, H., Nguyen, T. (2024). Exploring the State Vector Classification Algorithm and Its Quantum Equivalent. *2024 International Conference on Quantum Computing and Engineering*. IEEE International Conference on Quantum Computing and Engineering (QCE). Peer Review - Refereed

*Conference Proceeding*

Mhatre, J., Lee, A., Lee, H. L., Nguyen, T. (2024). *DDPG\_CAD: Intelligent Channel Activity Detection Scheduling in Massive IoT LoRaWAN*. The 10th IEEE International Conference on Network Softwarization (IEEE NetSoft 2024).Peer Review - Refereed

*Conference Proceeding*

Suo, K., Vu, L., ISLAM, M. R., Dhar, N., Nguyen, T., He, S., Wu, X. (2024). *A Systematic Investigation of Hardware and Software in Electric Vehicular Platform*. ACM Southeast (ACMSE) conference 2024.Peer Review - Refereed

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

***Conference Proceedings***

*Conference Proceeding*

Ojo, F., Guntupalli, S., Adewunmi, O. (2024). A Two-Phase Pneumonia Detection and Subclassification Model Using Hybridized EfficientNet and Random Forest. *2024 IEEE International Conference on Bioinformatics and Biomedicine (BIBM)* (pp. 5032-5037). IEEE. <https://doi.org/10.1109/bibm62325.2024.10822155>Peer Review - Refereed

*Conference Proceeding*

Ojo, F., Guntupalli, S. (2024). Assessing Mortality Risk in Heart Failure: Analyzing Ejection Fraction, Kidney Function, Smoking, and Follow-Up Time as Predictive Indicators. *2024 IEEE International Conference on Bioinformatics and Biomedicine (BIBM)* (pp. 6255-6259). IEEE. <https://doi.org/10.1109/bibm62325.2024.10822463>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

*Journal Article, Academic Journal*

Jha, N., Parakh, A., Subramaniam, M. (2024). Joint encryption and error correction for secure quantum communication. *Nature Scientific Reports, 14(24542)*, .Peer Review - Refereed

***Conference Proceedings***

*Conference Proceeding*

Jha, N., Parakh, A., Subramaniam, M. (2024). *A ML Based Approach to Quantum Augmented HTTP Protocol*. IEEE International Conference on Quantum Computing and Engineering (QCE).Peer Review - Refereed

*Conference Proceeding*

Parakh, A., Subramaniam, M. (2024). *QUINTET: An Experiential Learning Platform for Quantum Education*. IEEE International Conference on Quantum Computing and Engineering (QCE).Peer Review - Refereed

*Conference Proceeding*

Jha, N., Parakh, A., Subramaniam, M. (2024). *Effect of noise and topologies on multi-photon quantum protocols*. SPIE 12911, Quantum Computing, Communication, and Simulation IV, 129110G. Peer Review - Refereed

## Pei, Yong (Professor)

### 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

#### *Journal Article, Academic Journal*

Nweke, F., Azmee, A. A., Khan, M. A. A. H., Pei, Y., Thomas, D., Nandan, M. (2024). A transformer-driven framework for multi-label behavioral health classification in police narratives. *AIMS Press ACI journal*, 4(2), 234-252, ., Acceptance Rate: 19%, Impact Factor: H-Index 38, <https://www.aimspress.com/article/doi/10.3934/aci.2024014?viewType=HTML> Peer Review - Refereed

#### *Journal Article, Academic Journal*

Murikipudi, M., Azmee, A. A., Khan, M. A. A. H., Pei, Y. (2024). CBSA: A Deep Transfer Learning Framework for Assessing Post-Stroke Exercises. *IEEE CHASE*, . Peer Review - Refereed

#### *Journal Article, Academic Journal*

Hershberger, P. J., Pei, Y., Bricker, D. A., Crawford, T. N., Shivakumar, A., Castle, A., Conway, K., Medaramitta, R., Rehtin, M., Wilson, J. F. (2024). Motivational interviewing skills practice enhanced with artificial intelligence: ReadMI. *BMC Medical Education*, 24(1), 237, ., <https://doi.org/10.1186/s12909-024-05217-4> Peer Review - Refereed

#### *Journal Article, Academic Journal*

Attota, D., Azmee, A. A., Khan, M. A. A. H., Pei, Y., Thomas, D., Nandan, M. (2024). Semantic learning and attention dynamics for behavioral classification in police narratives. *Smart Health*, 32, 100479, ., Acceptance Rate: 23%, <https://doi.org/10.1016/j.smhl.2024.100479> Peer Review - Refereed

#### *Journal Article, Academic Journal*

Brown, M., Azmee, A. A., Khan, M. A. A. H., Thomas, D., Pei, Y., Nandan, M. (2024). Adaptive attention-aware fusion for human-in-the-loop behavioral health detection. *Smart Health*, 32, 12, ., Acceptance Rate: 23, <https://doi.org/10.1016/j.smhl.2024.100475> Peer Review - Refereed

### Conference Proceedings

#### *Conference Proceeding*

Dargan, C., Nweke, F., Khan, M. A. A. H., Azmee, A. A., Pei, Y. (2024). *Automated Alphabet Detection from Brain Waves*. ACMSE 2024: Proceedings of the 2024 ACM Southeast Conference. Peer Review - Refereed

#### *Conference Proceeding*

Pederson, M., Azmee, A. A., Khan, M. A. A. H., Pei, Y., Thomas, D., Nandan, M. (2024). *Combined Correlational Network for Identifying Behavioral Health Cases from First Responder Report*. IEEE Bigdata. Peer Review - Refereed

*Conference Proceeding*

Brown, M., Thomas, D., Khan, M. A. A. H., Azmee, A. a., Nandan, M., Pei, Y. (2024). *Demo: CaseFinder: Automated Visual and Quantitative Analysis Tool for Police Narrative*. IEEE Bigdata. Peer Review - Refereed

*Conference Proceeding*

Azmee, A. A., Nweke, F., Khan, M. A. A. H., Pei, Y., Thomas, D., Nandan, M. (2024). *Domain Knowledge-Driven Multi-Label Behavioral Health Identification from Police Report*. IEEE Bigdata. Peer Review - Refereed

*Conference Proceeding*

Nweke, F., Azmee, A. A., Khan, M. A. A. H., Pei, Y., Thomas, D., Nandan, M. (2024). *Explainable Multi-Label Classification Framework for Behavioral Health Based on Domain Concepts*. IEEE Bigdata. Peer Review - Refereed

*Conference Proceeding*

Stigall, W., Khan, M. A. A. H., Attota, D., Nweke, F., Pei, Y. (2024). *Large Language Models Performance Comparison of Emotion and Sentiment Classification*. ACMSE 2024: Proceedings of the 2024 ACM Southeast Conference. Peer Review - Refereed

*Conference Proceeding*

Jonnalagadda, R. S., Azmee, A. A., Attota, D., Khan, M. A. A. H., Pei, Y. (2024). *Poster: Extracting and Annotating Mental Health Forum Corpus: A Comprehensive Validation Pipeline*. IEEE CHASE. Peer Review - Refereed

*Conference Proceeding*

Brown, M., Azmee, A. a., Khan, M. A. A. H., Thomas, D., Pei, Y., Nandan, M. (2024). *Adaptive Attention Aware Fusion Model with Uncertainty Based Informative Sample Clustering in Active Learning*. IEEE/ACM international conference on Connected Health: Applications, Systems and Engineering Technologies (CHASE) 2024. Peer Review - Refereed

*Conference Proceeding*

Azmee, A. A., Attota, D., Nweke, F., Khan, M. A. A. H., Pei, Y. (2024). *Attention Driven Framework for Detecting Mental Illness Causes from Social Media*. ACMSE 2024: Proceedings of the 2024 ACM Southeast Conference. Peer Review - Refereed

**Other Intellectual Contributions**

*Published Abstract*

Azmee, A. A., Attota, D. C., Nweke, F. E., Khan, M. A. A. H., Pei, Y. (2024). In KSU C-Day (Ed.), *GPR-16 Attention Driven Framework for Detecting Mental Illness Causes from Social Media*. Marietta, Georgia: KSU C-Day (Spring 2024). <https://digitalcommons.kennesaw.edu/cgi/viewcontent.cgi?article=1386&context=cdayPeerReview> - Refereed

*Published Abstract*

Nweke, F. E., Azmee, A. A., Khan, M. A. A. H., Pei, Y., Thomas, D., Nandan, M. (2024). In KSU C-Day (Ed.), *GPR-2212 Explainable Multi-Label Classification Framework for Behavioral Health Based on Domain Concepts*. Marietta, Georgia: KSU C-Day (Fall 2024). <https://digitalcommons.kennesaw.edu/cgi/viewcontent.cgi?article=1486&context=cdayPeerReview> - Refereed

*Published Abstract*

Azmees, A. A., Nweke, F. E., Pederson, M. V., Khan, M. A. A. H., Pei, Y. (2024). In KSU C-Day (Ed.), *GPR-233 Human-Assisted AI for Detecting Mental Health Indicators in Social Media*. Marietta, Georgia: KSU C-Day (Fall 2024).  
<https://digitalcommons.kennesaw.edu/cgi/viewcontent.cgi?article=1488&context=cdayPeerReview> - 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., 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*

Liu, X., Xiao, P., Esposito, M., Raavi, M., Zhao, C. (2024). AGFA-Net: Attention-Guided Feature-Aggregated Network for Coronary Artery Segmentation using Computed Tomography Angiography. No. Herndon, VA, USA: The 36th IEEE International Conference on Tools with Artificial Intelligence (ICTAI).Peer Review - Refereed

*Conference Proceeding*

Liu, X., Xiao, P., Esposito, M., Raavi, M., Zhao, C. (2024). AGFA-Net: Attention-Guided Feature-Aggregated Network for Coronary Artery Segmentation Using Computed Tomography Angiography. *2024 IEEE 36th International Conference on Tools with Artificial Intelligence (ICTAI)* (pp. 327-334). IEEE.  
<https://doi.org/10.1109/ictai62512.2024.00055>Peer Review - Refereed

*Conference Proceeding*

Raavi, M., Wuthier, S., Chang, S. (2024). Securing Post-Quantum DNSSEC Against Fragmentation Mis-Association Threat. *ICC 2024 - IEEE International Conference on Communications* (pp. 97-102). IEEE.  
<https://doi.org/10.1109/icc51166.2024.10622607>Peer Review - Refereed

*Conference Proceeding*

Beck, S., Raavi, M., Dale, C., Weishalla, K., Worrell, B. (2024). Survey of Side-Channel Vulnerabilities for Short-Range Wireless Communication Technologies. *2024 IEEE International Conference on Electro Information Technology (eIT)* (vol. 21, pp. 450-456). IEEE. <http://dx.doi.org/10.1109/eit60633.2024.10609924>Peer Review - Refereed

**Shaw, Alan (Associate Professor)**

## **Conference Proceedings**

### *Conference Proceeding*

Shaw, A., Lawler, B., Crombie, W., McKlin, T., Brown, T. L., Richards, T. (2024). *Expanded Paper - Working toward a Mathematics Literacy that Engages Creativity, Imagination and A Mathematical Identity*. 15th International Congress on Mathematical Education (ICME-15).Invited

### *Conference Proceeding*

Shaw, A., Lawler, B., Crombie, W., McKlin, T., Brown, T. L., Richards, T. (2024). *Working toward a Mathematics Literacy that Engages Creativity, Imagination and a Mathematical Identity*. The 15th International Congress on Mathematical Education.Peer Review - Refereed

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

## **Conference Proceedings**

### *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

### *Conference Proceeding*

Vu, L., Suo, K., Islam, M. R., Dhar, N., Nguyen, T., He, J., Shi, Y. (2024). Living on the Electric Vehicle and Cloud Era: A Study of Cyber Vulnerabilities, Potential Impacts, and Possible Strategies. *Proceedings of the 2024 ACM Southeast Conference* (pp. 18–26). New York, NY, USA: Association for Computing Machinery. <https://doi.org/10.1145/3603287.3651209>Peer Review - Refereed

### *Conference Proceeding*

Bharti, S., Lo, D. C.-T., Shi, Y. (2024). Enhancing Contextual Understanding in Knowledge Graphs: Integration of Quantum Natural Language Processing with Neo4j LLM Knowledge Graph. *2024 IEEE International Conference on Big Data (BigData)* (pp. 8628-8630). Marietta: IEEE. <https://doi.org/10.1109/bigdata62323.2024.10826002>Peer Review - Refereed

### *Conference Proceeding*

Lo, D. C.-T., Shi, Y., Shahriar, H., Deng, B., Zhang, X., Chen, M.-L. (2024). Practical Considerations of Fully Homomorphic Encryption in Privacy-Preserving Machine Learning. *2024 IEEE International Conference on Big Data (BigData)* (pp. 6330-6335). IEEE. <https://doi.org/10.1109/bigdata62323.2024.10825068>Peer Review - Refereed

### *Conference Proceeding*

Horton, D., Vu, T., Nguyen, T., Suo, K., Lee, A. Y., He, J., Shi, Y. (2024). *A Hardware-in-the-loop Wireless System Design: Benchmarking NFV Network Services*. IEEE International Workshop on Computer Aided Modeling and Design of Communication Links and Networks.Peer Review - Refereed

### *Conference Proceeding*

Tasnim, N., Shi, Y., Suo, K., Zhang, X. (2024). *Enhancing Genomic Datasets with cGANs: A Study on Synthetic DNA Sequences for Non-Human Species*. The 4th International Conference on Electrical, Computer and Energy Technologies (ICECET). <https://ieeexplore.ieee.org/document/10698128>Peer Review - Refereed

*Conference Proceeding*

Gao, C., Shi, Y. (2024). *Prediction Accuracy Analysis for ML Models based on Impacts of Data Imbalance and Bias*. ACM Southeast (ACMSE) conference 2024. Peer Review - Refereed

**Suo, Kun (Associate Professor)**

**Refereed Journal Articles**

*Journal Article, Academic Journal*

Deng, B., Nadendla, B. S., Suo, K., Xie, Y., Lo, D. C.-T. (2024). Fixed-point Encoding and Architecture Exploration for Residue Number Systems. *ACM Transactions on Architecture and Code Optimization (TACO)*, . Peer Review - Refereed

*Journal Article, Academic Journal*

Sang, Q., Yan, J., Xie, R., Hu, C., Suo, K., Cheng, D. (2024). QoS-Aware Power Management via Scheduling and Governing Co-Optimization on Mobile Devices. *IEEE Transactions on Mobile Computing*, ., Acceptance Rate: 18%, <https://www.computer.org/csdl/journal/tm> Peer Review - Refereed

*Journal Article, Academic Journal*

Cai, X., Sang, Q., Hu, C., Suo, K., Zhou, X., Cheng, D. (2024). Incendio: Priority-based Scheduling for Alleviating Cold Start in Serverless Computing. *IEEE Transactions on Computers*, ., <https://www.computer.org/csdl/journal/tc> Peer Review - Refereed

*Journal Article, Academic Journal*

Huang, H., Wang, H., Li, X., Rao, J., Wu, S., Jin, H., Fan, H., Suo, K., Shen, J., Wang, K. (2024). vKernel: Enhancing Container Isolation via Private Code and Data. *IEEE Transactions on Computers*, ., Acceptance Rate: 18%, <https://www.computer.org/csdl/journal/tc> Peer Review - Refereed

**Conference Proceedings**

*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

*Conference Proceeding*

Suo, K., Vu, L., Islam, M. R., Dhar, N., Nguyen, T., He, J., Wu, X. (2024). A Systematic Investigation of Hardware and Software in Electric Vehicular Platform. *Proceedings of the 2024 ACM Southeast Conference* (pp. 9–17). New York, NY, USA: Association for Computing Machinery. <https://doi.org/10.1145/3603287.3651203> Peer Review - Refereed

*Conference Proceeding*

Vu, L., Suo, K., Islam, M. R., Dhar, N., Nguyen, T., He, J., Shi, Y. (2024). Living on the Electric Vehicle and Cloud Era: A Study of Cyber Vulnerabilities, Potential Impacts, and Possible Strategies. *Proceedings of the 2024 ACM Southeast Conference* (pp. 18–26). New York, NY, USA: Association for Computing Machinery. <https://doi.org/10.1145/3603287.3651209> Peer Review - Refereed

*Conference Proceeding*

Mhatre, J., Lee, A., Lee, H. L., Nguyen, T., Suo, K. (2024). *Improving Energy Efficiency and Reliability by Optimizing Gateway Placement in Dense LoRaWAN Networks*. IEEE 10th World Forum on Internet of Things (WF-IoT) 2024. Peer Review - Refereed

*Conference Proceeding*

Horton, D., Vu, T., Nguyen, T., Suo, K., Lee, A. Y., He, J., Shi, Y. (2024). *A Hardware-in-the-loop Wireless System Design: Benchmarking NFV Network Services*. IEEE International Workshop on Computer Aided Modeling and Design of Communication Links and Networks. Peer Review - Refereed

*Conference Proceeding*

Tasnim, N., Shi, Y., Suo, K., Zhang, X. (2024). *Enhancing Genomic Datasets with cGANs: A Study on Synthetic DNA Sequences for Non-Human Species*. The 4th International Conference on Electrical, Computer and Energy Technologies (ICECET). <https://ieeexplore.ieee.org/document/10698128> Peer Review - Refereed

*Conference Proceeding*

Wu, X., Bojkovic, V., Gu, B., Suo, K., Zou, K. (2024). *FTBC: Forward Temporal Bias Correction for Optimizing ANN-SNN Conversion*. The 18th European Conference on Computer Vision ECCV 2024. <https://eccv.ecva.net/> Peer Review - Refereed

*Conference Proceeding*

Suo, K., Vu, L., ISLAM, M. R., Dhar, N., Nguyen, T., He, S., Wu, X. (2024). *A Systematic Investigation of Hardware and Software in Electric Vehicular Platform*. ACM Southeast (ACMSE) conference 2024. Peer Review - Refereed

*Conference Proceeding*

ISLAM, M. R., Vu, L., Dhar, N., Suo, K., Deng, B. (2024). *Building a Resilient and Sustainable Grid: A Study of Challenges and Opportunities in AI for Smart Virtual Power Plants*. Proceedings of the 2024 ACM Southeast Conference (ACMSE 2024). Peer Review - Refereed

*Conference Proceeding*

Dhar, N., Deng, B., Lo, D. C.-T., Wu, X., Zhao, L., Suo, K. (2024). *An Empirical Analysis and Resource Footprint Study of Deploying Large Language Models on Edge Devices*. Proceedings of the 2024 ACM Southeast Conference (ACMSE 2024). Peer Review - Refereed

**Tasnim, Umama (Lecturer)**

***Refereed Journal Articles***

*Journal Article, Academic Journal*

Tasnim, U. (2024). Investigating Personalization Techniques for Improved Cybersickness Prediction in Virtual Reality Environments. *IEEE Transactions on Visualization and Computer Graphics*, 30, 11, ., Acceptance Rate: 20-21%, Impact Factor: 1.10, <https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=10458344> Peer Review - Refereed

***Non-Refereed Journal Articles***

*Journal Article, Academic Journal*

Tasnim, U., Islam, R., Desai, K., Quarles, J. (2024). Investigating Personalization Techniques for Improved Cybersickness Prediction in Virtual Reality Environments.

**Xie, Zongxing (Assistant Professor)**

**Refereed Journal Articles**

*Journal Article, Academic Journal*

Xie, Z., Ye, F. (2024). SCALING: plug-n-play device-free indoor tracking. *Scientific Reports*, 14(1), 2913. ., Impact Factor: 3.8Peer Review - Refereed

*Journal Article, Academic Journal*

Liu, M., Elbadry, M., Hua, Y., Baral, S., Park, I., Xie, Z., Ye, F. (2024). Proteus: An Easily Managed Home-based Health Monitoring Infrastructure. *IEEE Internet of Things Journal*, ., Impact Factor: 8.2Peer Review - Refereed

**Conference Proceedings**

*Conference Proceeding*

Liu, M., Xie, Z., Ye, F. (2024). M4X: Enhancing Cross-View Generalizability in RF-Based Human Activity Recognition by Exploiting Synthetic Data in Metric Learning. *2024 IEEE/ACM Conference on Connected Health: Applications, Systems and Engineering Technologies (CHASE)* (vol. 33, pp. 49-60). IEEE. <http://dx.doi.org/10.1109/chase60773.2024.00015>Peer Review - Refereed

*Conference Proceeding*

Kwon, H., Xie, Z., Liu, M., Ye, F. (2024). Poster: Comparative Study of Transformer Models on a Large Multivariate Time Series HAR Dataset. *2024 IEEE/ACM Conference on Connected Health: Applications, Systems and Engineering Technologies (CHASE)* (pp. 193-194). IEEE. <http://dx.doi.org/10.1109/chase60773.2024.00035>Peer Review - Refereed

**Other Intellectual Contributions**

*Published Abstract*

He, L., Hua, Y., Liu, M., Xie, Z., Schoenfeld, E., Ye, F. (2024). *A RADIO-BASED NONCONTACT MONITORING SYSTEM FOR NIGHTTIME VITAL SIGNS AND SLEEP INSIGHTS*. Oxford University Press.Editorial Review

*Ph.D. Thesis*

Xie, Z. (2024). *Wireless Sensing for Home-Based Health Monitoring With Robustness and Scalability*. State University of New York at Stony Brook.

**Zhang, Xinyue (Assistant Professor)**

**Refereed Journal Articles**

*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

*Journal Article, Academic Journal*

Adewuyi, M., Zhang, X., Iwuagwu, L., Ramos, M. . Experiences and Support Needs of Informal Caregivers in Managing Behavioral Symptom of Dementia. *LIDSEN Publishing*, .Peer Review - Refereed

### **Conference Proceedings**

#### *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*

Ju, K., Zhong, H., Zhang, X., Qin, X., Pan, M. (2024). *Controllable Quantum Computing Privacy via Inherent Noises and Quantum Error Mitigation*. IEEE International Conference on Trust, Security and Privacy in Computing and Communications (TrustCom).Peer Review - Refereed

#### *Conference Proceeding*

Zhong, H., Ju, K., Sistla, M., Zhang, X., Qin, X., Fu, X., Pan, M. (2024). *Tuning Quantum Computing Privacy through Quantum Error Correction*. IEEE Global Communications Conference (GLOBECOM) 2024.Peer Review - Refereed

#### *Conference Proceeding*

Lo, D. C.-T., Shi, Y., Shahriar, H., Deng, B., Zhang, X., Chen, M.-L. (2024). Practical Considerations of Fully Homomorphic Encryption in Privacy-Preserving Machine Learning. *2024 IEEE International Conference on Big Data (BigData)* (pp. 6330-6335). IEEE. <https://doi.org/10.1109/bigdata62323.2024.10825068>Peer Review - Refereed

#### *Conference Proceeding*

Yenumala, A., Zhang, X., Lo, D. C.-T. (2024). *Towards More Robust and Scalable Deep Learning Systems for Medical Image Analysis*. IEEE International Conference on Big Data, REU Symposium 2024.Peer Review - Refereed

#### *Conference Proceeding*

Tasnim, N., Shi, Y., Suo, K., Zhang, X. (2024). *Enhancing Genomic Datasets with cGANs: A Study on Synthetic DNA Sequences for Non-Human Species*. The 4th International Conference on Electrical, Computer and Energy Technologies (ICECET). <https://ieeexplore.ieee.org/document/10698128>Peer Review - Refereed

#### *Conference Proceeding*

Zhao, Y., Zhong, H., Zhang, X., Li, Y., Zhang, C., Pan, M. (2024). *Bridging Quantum Computing and Differential Privacy: Insights into Quantum Computing Privacy* (pp. 13-24). IEEE. <https://doi.org/10.1109/qce60285.2024.00012>Peer Review - Refereed

#### *Conference Proceeding*

Li, Y., Zhao, Y., Zhang, X., Zhong, H., Pan, M., Zhang, C. (2024). *Differential Privacy Preserving Quantum Computing via Projection Operator Measurements*. International Conference on Quantum Communications, Networking, and Computing (QCNC) 2024.Peer Review - Refereed

#### *Conference Proceeding*

Ju, K., Qin, X., Zhong, H., Zhang, X., Pan, M., Liu, B. (2024). *Privacy Preserving Quantum Search Mechanism Using Grover's Algorithm*. International Conference on Quantum Communications, Networking, and Computing (QCNC) 2024.Peer Review - Refereed

*Conference Proceeding*

Ju, K., Qin, X., Zhong, H., Zhang, X., Pan, M., Liu, B. (2024). *Harnessing Inherent Noises for Privacy Preservation in Quantum Machine Learning*. IEEE International Conference on Communications (ICC) 2024. Peer Review - Refereed

*Conference Proceeding*

Li, M., Fan, L., Cummings, A., Zhang, X., Pan, M., Han, Z. (2024). *Hybrid Quantum Classical Machine Learning with Knowledge Distillation*. IEEE International Conference on Communications (ICC) 2024. Peer Review - Refereed

*Conference Proceeding*

Deng, B., Zhang, X., Lo, D. C.-T. (2024). *Serverless-DFS: Serverless Federated Learning with Dynamic Forest Strategy*. The 12th International Conference on Networks, Communication and Computing (ICNCC 2023). Peer Review - Refereed

*Conference Proceeding*

Yellampalli, S. S., Chalupa, M., Wang, J., Song, H. J., Zhang, X., Yue, H., Pan, M. (2024). *Client Selection in Federated Learning: A Dynamic Matching-Based Incentive Mechanism*. International Conference on Computing, Networking and Communications (ICNC) 2024. Peer Review - Refereed

**Zhao, Chen (Assistant Professor)**

***Refereed Journal Articles***

*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: 4.2 Editorial 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: 4.4 Peer Review - Refereed

*Journal Article, Professional Journal*

Ni, Y., Hu, H., Chen, K., Zhao, C. . A Robust Deep Learning Method with Uncertainty Estimation for the Pathological Classification of Renal Cell Carcinoma based on CT Images. *Journal of Imaging Informatics in Medicine*, ., Impact Factor: 2.9 Peer Review - Refereed

*Journal Article, Academic Journal*

Baral, P., Zhao, C., Esposito, M., Zhou, W. . A review on machine learning for arterial extraction and quantitative assessment on invasive coronary angiograms. *Current Cardiovascular Imaging Reports*, ., Impact Factor: 0.6 Peer Review - Refereed

*Journal Article, Academic Journal*

Yang, K., Wang, L., Wei, Q., Cheng, X., Zhao, C., Tang, S., Deng, H.-W., Zhou, W. . A Deep Learning Approach based on Two-channel 3DCNN Networks to Predict the Risk of

Femoral Fracture using CT Images. *Journal of Imaging Science and Technology*, ., Impact Factor: 0.46Peer Review - Refereed

*Journal Article, Academic Journal*

Zhao, C., Su, K.-J., Wu, C., Cao, X., Sha, Q., Li, W., Luo, Z., Tian, Q., Qiu, C., Zhao, L. J., Liu, A., Jiang, L., Zhang, X., Shen, H., Zhou, W., Deng, H.-W. . Multi-View Variational Autoencoder for Missing Value Imputation in Untargeted Metabolomics. *Computers in Biology and Medicine*, ., Impact Factor: 7.7Editorial Review

*Journal Article, Professional Journal*

Cao, X., Zhao, C. (2024). A new hip fracture risk index derived from FEA-computed proximal femur fracture loads and energies-to-failure. *Osteoporosis International*, .Peer Review - Refereed

*Journal Article, Academic Journal*

Zhao, C., Liu, A., Zhang, X., Cao, X., Ding, Z., Sha, Q., Shen, H., Deng, H.-W., Zhou, W. (2024). CLCLSA: Cross-omics Linked embedding with Contrastive Learning and Self Attention for integration with incomplete multi-omics data. *Computers in Biology and Medicine*, ., Impact Factor: 7.7Peer Review - Refereed

*Journal Article, Academic Journal*

Zhao, C., Esposito, M., Xu, Z., Zhou, W. . HAGMN-UQ: Hyper Association Graph Matching Network with Uncertainty Quantification for Coronary Artery Semantic Labeling. *Medical Image Analysis*, ., Acceptance Rate: 62.5%, Impact Factor: 10.9Peer Review - Refereed

**Non-Refereed Journal Articles**

*Journal Article, Academic Journal*

Shaik, A., Larsen, K., Lane, N., Zhao, C., Su, K.-J., Keyak, J., Tian, Q., Sha, Q., Shen, H., Deng, H.-W., Zhou, W. . A Staged Approach using Machine Learning and Uncertainty Quantification to Predict the Risk of Hip Fracture. *Bone Reports*, ., Impact Factor: 2.1No Review

**Conference Proceedings**

*Conference Proceeding*

Liu, X., Xiao, P., Esposito, M., Raavi, M., Zhao, C. (2024). AGFA-Net: Attention-Guided Feature-Aggregated Network for Coronary Artery Segmentation using Computed Tomography Angiography. No. Herndon, VA, USA: The 36th IEEE International Conference on Tools with Artificial Intelligence (ICTAI).Peer Review - Refereed

## Department of Information Technology

Chen, Ying (Assistant Professor)

### Refereed Journal Articles

*Journal Article, Academic Journal*

Chen, Y., Omoma, S., Kwon, H., Inaltekin, H., Gorlatova, M. (2024). Quantifying and Exploiting VR Frame Correlations: An Application of a Statistical Model for Viewport Pose. *IEEE Transactions on Mobile Computing*, 23(12), 11466 - 11482, ., Impact Factor: 7.7, <https://ieeexplore.ieee.org/stamp/stamp.jsp?tp=&number=10529604>Peer Review - Refereed

### Conference Proceedings

*Conference Proceeding*

Duan, L., Scargill, T., Chen, Y., Gorlatova, M. (2024). 3D Object Detection with VI-SLAM Point Clouds: The Impact of Object and Environment Characteristics on Model Performance. *2024 IEEE International Conference on Robotics and Automation (ICRA)* (pp. 14014--14020).

*Conference Proceeding*

Duan, L., Chen, Y., Qu, Z., McGrath, M., Ehmke, E., Gorlatova, M. (2024). *BiGuide: A bi-level data acquisition guidance for object detection on mobile devices* (pp. 88--100). 23rd ACM/IEEE International Conference on Information Processing in Sensor Networks (IPSN).Peer Review - Refereed

*Conference Proceeding*

Hu, T., Scargill, T., Yang, F., Chen, Y., Gorlatova, M. (2024). *SEESys: Online Pose Error Estimation System for Visual SLAM*. Proceedings of the 22nd ACM Conference on Embedded Networked Sensor Systems (SenSys)). <https://dl.acm.org/doi/10.1145/3666025.3699341>Peer Review - Refereed

Choi, Taeyeong (Assistant Professor)

### Refereed Journal Articles

*Journal Article, Academic Journal*

Choi, T., Would, O., Salazar-Gomez, A., Liu, X., Cielniak, G. (2024). Channel randomisation: Self-supervised representation learning for reliable visual anomaly detection in speciality crops. *Computers and Electronics in Agriculture*, 226, 109416, ., Impact Factor: 7.7, <https://doi.org/10.1016/j.compag.2024.109416>Peer Review - Refereed

### Conference Proceedings

*Conference Proceeding*

Choi, T., Guevara, D., Bhandokar, G., Cheng, Z., Wang, C., Bailey, B., Earles, M., Liu, X. . In IEEE (Ed.), *DAVIS-Ag: A Synthetic Plant Dataset for Prototyping Domain-Inspired Active Vision in Agricultural Robots*. 2024 20th IEEE Conference on Automation Science and Engineering (CASE). <https://ieeexplore.ieee.org/abstract/document/10711368>Peer Review - Refereed

*Conference Proceeding*

Goyal, S., Sasikumar, K., Sheth, R., Seelam, A., Choi, T., Liu, X. (2024). In AAAI (Ed.), *EnColor: Improving Visual Accessibility with a Deep Encoder-Decoder Image Corrector*

*for Color Vision Deficient Individuals*. The 38th Annual AAAI Conference on Artificial Intelligence (AAAI-24). <https://ojs.aaai.org/index.php/AAAI/article/view/30382>Peer Review - Refereed

*Conference Proceeding*

Bandodkar, G., Agarwal, S., Sughosh, A. K., Singh, S., Choi, T. (2024). In AAAI (Ed.), *"Allot?" is "A Lot!" Towards Developing More Generalized Speech Recognition System for Accessible Communication*. The 38th Annual AAAI Conference on Artificial Intelligence (AAAI-24). <https://ojs.aaai.org/index.php/AAAI/article/view/30381>Peer Review - Refereed

**Le, Linh T. (Assistant Professor)**

**Conference Proceedings**

*Conference Proceeding*

Le, L. (2024). *On Text Granularity and Metric Frameworks for Large Language Model Content Detection*. IEEE. <https://www.computer.org/csdl/proceedings-article/bigdata/2024/10825505/23ykakTtLbi>Peer Review - Refereed

**Li, Zhigang (Associate Professor)**

**Refereed Journal Articles**

*Journal Article, Academic Journal*

Tan, Z. E., Patel, A., Tian, S., Li, Z. (2024). Cybersecurity in the quantum age: A bibliometrics review. *Issues in Information Systems*, .Peer Review - Refereed

*Journal Article, Academic Journal*

Streeter, M., Li, Z., Li, J., Zhang, C., Tian, S., He, S. (2024). Integrating Virtual and Augmented Reality with Brain-Computer Interfaces for ADHD and ASD Management: A Preliminary Review. *JOURNAL OF INFORMATION SYSTEMS APPLIED RESEARCH*, 17(1), 33-41, .Peer Review - Refereed

**Conference Proceedings**

*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

*Conference Proceeding*

Liew, Z., Tian, S., Li, Z. (2024). *Comparing Models of Misinformation Distribution on Online: A Survey Paper*. IACIS 2024.Peer Review - Refereed

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

**Conference Proceedings**

*Conference Proceeding*

Namukasa, M., Spoletini, P., Peltsverger, S. B. (2024). Assessment and Instructor Engagement: A Student-Centric Perspective from Gender and Minority Viewpoints. *Proceedings of the 25th Annual Conference on Information Technology Education* (pp.

143–144). New York, NY, USA: Association for Computing Machinery.  
<https://doi.org/10.1145/3686852.3687082>

*Conference Proceeding*

Miedema, D., Taipalus, T., Ajanovski, V. V., Alawini, A., Goodfellow, M., Liut, M., Peltsverger, S. B., Young, T. (2024). Curriculum Analysis for Data Systems Education. *Proceedings of the 2024 on Innovation and Technology in Computer Science Education V. 2* (pp. 761–762). New York, NY, USA: Association for Computing Machinery.  
<https://doi.org/10.1145/3649405.3659529>

**Pouriyeh, Seyedamin (Associate Professor)**

**Refereed Journal Articles**

*Journal Article, Academic Journal*

Jagarlamudi, G. K., Yazdinejad, A., Meimandi Parizi, R., Pouriyeh, S. (2024). Exploring privacy measurement in federated learning. *The Journal of Supercomputing*, 1–41, ., Impact Factor: 2.5Peer Review - Refereed

*Journal Article, Academic Journal*

Mosaiyebzadeh, F., Pouriyeh, S., Han, M., Liu, L., Xie, Y., Zhao, L., Batista, D. (2024). Privacy-Preserving Federated Learning-Based Intrusion Detection System for IoHT Devices. *MDPI electronics*, ., Impact Factor: 3.0Peer Review - Refereed

*Journal Article, Academic Journal*

Chen, L., Li, Q., Nasif, K. F. A., Xie, Y., Deng, B., Niu, S., Pouriyeh, S., Dai, Z., Chen, J., Xie, C. Y. (2024). AI-Driven Deep Learning Techniques in Protein Structure Prediction. *International Journal of Molecular Sciences*, 25(15), ., Impact Factor: 4.9, <https://www.mdpi.com/1422-0067/25/15/8426>Peer Review - Refereed

*Journal Article, Academic Journal*

Nalla, V., Pouriyeh, S., Meimandi Parizi, R., Trivedi, H., Hwang, I., Woo, M. (2024). Deep learning for computer-aided abnormalities classification in digital mammogram: A data-centric perspective. *Current Problems in Diagnostic Radiology*, ., Impact Factor: 1.5Peer Review - Refereed

*Journal Article, Academic Journal*

Zhao, L., Valero, M. A., Pouriyeh, S., Li, F., Guo, L., Han, Z. (2024). A Decentralized Communication-Efficient Federated Analytics Framework for Connected Vehicles. *IEEE Transactions on Vehicular Technology*, ., Impact Factor: 6.239Peer Review - Refereed

*Journal Article, Academic Journal*

Chen, Y., Zhang, Y., Zhuang, Y., Pouriyeh, S., Han, M. (2024). Efficient and Secure Blockchain Consensus Algorithm for Heterogeneous Industrial Internet of Things Nodes Based on Double-DAG. *IEEE Transactions on Industrial Informatics*, ., Impact Factor: 11.7Peer Review - Refereed

*Journal Article, Academic Journal*

Chen, J., Potlapalli, R., Quan, H., Chen, L., Xie, Y., Pouriyeh, S., Sakib, N., Liu, L., Xie, Y. (2024). Exploring DNA Damage and Repair Mechanisms: A Review with Computational Insights. *BioTech*, 13(1), ., Impact Factor: 2.7, <https://www.mdpi.com/2673-6284/13/1/3>Peer Review - Refereed

**Conference Proceedings**

*Conference Proceeding*

Dehbozorgi, N., Kunuku, M. T., Pouriye, S. (2024). *Personalized Pedagogy Through a LLM-Based Recommender System*. 25th International Conference on Artificial Intelligence in Education (AIED 2024).Peer Review - Refereed

*Conference Proceeding*

Shedage, P. S., Pouriye, S., Meimandi Parizi, R., Han, M., Sannino, G., Dehbozorgi, N. (2024). *Stress Detection Using Multimodal Physiological Signals With Machine Learning From Wearable Devices*. 4th IEEE International Conference on ICT Solutions for eHealth.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

*Journal Article, Academic Journal*

Anjum, N., Mehedi Hasan, M., Umme Salma, S., Zhao, L., Valero de Clemente, M. A., Sakib, N. (2024). ScreenSafeFuture: A parent-empathetic and pragmatic mhealth application for toddlers' brain development addressing screen-addiction challenges. *SoftwareX*, .Peer Review - Refereed

*Journal Article, Academic Journal*

Chen, J., Potlapalli, R., Quan, H., Chen, L., Xie, Y., Pouriye, S., Sakib, N., Liu, L., Xie, Y. (2024). Exploring DNA Damage and Repair Mechanisms: A Review with Computational Insights. *BioTech*, 13(1), ., Impact Factor: 2.7, <https://www.mdpi.com/2673-6284/13/1/3>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. (2024). Revisiting Remote Monitoring for Older Adults: A Scoping Review toward Advancing Remote Monitoring for Patients with AD/ADRD. *JMIR Aging*, .

**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

*Journal Article, Academic Journal*

Tan, Z. E., Patel, A., Tian, S., Li, Z. (2024). Cybersecurity in the quantum age: A bibliometrics review. *Issues in Information Systems*, .Peer Review - Refereed

*Journal Article, Academic Journal*

Streeter, M., Li, Z., Li, J., Zhang, C., Tian, S., He, S. (2024). Integrating Virtual and Augmented Reality with Brain-Computer Interfaces for ADHD and ASD Management: A Preliminary Review. *JOURNAL OF INFORMATION SYSTEMS APPLIED RESEARCH*, 17(1), 33-41, .Peer Review - Refereed

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*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

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

**Refereed Journal Articles**

*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/rirej.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*

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*

Anjum, N., Mehedi Hasan, M., Umme Salma, S., Zhao, L., Valero de Clemente, M. A., Sakib, N. (2024). ScreenSafeFuture: A parent-empathetic and pragmatic mhealth application for toddlers' brain development addressing screen-addiction challenges. *SoftwareX*, .Peer Review - Refereed

*Journal Article, Academic Journal*

Xie, Y., Valero, M. A. (2024). A Comparative Analysis of SARS-CoV-2 Variants of Concern (VOC) Spike Proteins Interacting with hACE2 Enzyme. *Frontiers in Molecular Biosciences*, ., Impact Factor: 6.113Editorial Review

*Journal Article, Academic Journal*

Kazi, T., Belfarsi, E. A., Doung, A., Valero de Clemente, M. A., Ingram, K. H., Nino de Valladares, L. (2024). Advancements in Non-Invasive AI-Powered Glucose Monitoring: Leveraging Multispectral Imaging Across Diverse Wavelengths. *Artificial Intelligence in Medicine*, ., Impact Factor: <40% acceptance ratePeer Review - Refereed

*Journal Article, Academic Journal*

Crystal, A. A., Valero, M. A., Valladares, L., Ingram, K. H. (2024). Empowering Diabetics: Advancements in Smartphone-Based Food Classification, Volume Measurement, and Nutritional Estimation. *Sensors*, 24(13), 4089, ., Acceptance Rate: Q1 journal, Impact Factor: 3.9, <https://www.mdpi.com/1424-8220/24/13/4089>Peer Review - Refereed

*Journal Article, Academic Journal*

Valero, M. A., Ingram, K. H., Duong, A., Nino de Valladares, L. (2024). Pervasive Glucose Monitoring: A Non-Invasive Approach based on Near-Infrared Spectroscopy. *Pervasive Computing Technologies for Healthcare*, ., Acceptance Rate: <40%, Impact Factor: 7.021, [https://link.springer.com/chapter/10.1007/978-3-031-59717-6\\_19](https://link.springer.com/chapter/10.1007/978-3-031-59717-6_19)Peer Review - Refereed

*Journal Article, Academic Journal*

Zhao, L., Valero, M. A., Pouriye, S., Li, F., Guo, L., Han, Z. (2024). A Decentralized Communication-Efficient Federated Analytics Framework for Connected Vehicles. *IEEE Transactions on Vehicular Technology*, ., Impact Factor: 6.239Peer Review - Refereed

*Journal Article, Academic Journal (Revising to Resubmit)*

Nino de Valladares, L., Valero de Clemente, M. A. (Revising to Resubmit). Opinion Paper: Behavioral Human Factors in Non-Invasive Health Monitoring. *Health and Technology*, ., Impact Factor: 3.1Peer Review - Refereed

**Conference Proceedings**

*Conference Proceeding*

Duong, A., Okaley, J., Valero de Clemente, M. A., Plachkinova, M. (2024). *Promoting Diversity, Equity, and Inclusion in the Cybersecurity Workforce: Lessons Learned from GenCyber Student Camp*. Fall Symposium of Student Scholars.Peer Review - Refereed

*Conference Proceeding*

Tufon, R. B., Randolph, A., Valero de Clemente, M. A., Nino de Valladares, L. V. (2024). *Emotion, Gaming, and Well-Being: Integrating Neurophysiological Data with Self-Reports* (pp. 239-244). Information Systems and Neuroscience - NeuroIS Retreat 2024, Vienna, Austria.Peer Review - Refereed

*Conference Proceeding*

Crystal, A., Valero de Clemente, M. A., Nino de Valladares, L. (2024). *Smartphone Based Food Classification: Applications, Challenges, and Future Prospects for Diabetics*. IEEE 20th International Conference on Smart Communities: Improving Quality of Life Using AI, Robotics and IoT. <https://ieeexplore.ieee.org/abstract/document/10374965>Peer Review - Refereed

### **Other Intellectual Contributions**

#### *Published Abstract*

Acklen, I., Keyser, R. S., Li, L., Li, Y., Valero de Clemente, M. A. (2024). *Blood Donation Frequency Related to Social Media Usage and Preferences*. KSU Digital Commons.Editorial Review

#### *Published Abstract*

Kazi, T., Oakley, J. E., Valero de Clemente, M. A. (2024). *Exploring the Spectrum of Non-Invasive Blood Glucose Monitoring: Wavelength and Physical Factors*. KSU Digital Commons.Editorial Review

### **Wu, Rui (Associate Professor)**

#### **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, .

### **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

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

Gu, Y., Zhao, L., Wu, S. (2024). Evaluation of Thermal Stress on Heterogeneous IoT-Based Federated Learning. *Electronics*, .Peer Review - Refereed

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

Xu, H., Li, Y., Balogun, O., Wu, S., Wang, Y., Cai, Z. (2024). Security Risks Concerns of Generative AI in the IoT. *IEEE Internet of Things Magazine*, .Peer Review - Refereed

#### **Conference Proceedings**

##### *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*

Chakravarty, S., Xie, Y., Wu, S. (2024). Implementing OpenRAN: Democratizing 5G Networks. *2024 IEEE 12th International Conference on Information, Communication and Networks (ICICN)* (pp. 279--283).

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Nguyen, M. V., Zhao, L., Deng, B., Severa, W., Xu, H., Wu, S. (2024). *The Robustness of Spiking Neural Networks in Communication and its Application towards Network Efficiency in Federated Learning*. IEEE IPCCC 2024. Peer Review - Refereed

*Conference Proceeding*

Xu, H., Li, W., Wu, S., Zhao, L., Cai, Z. . *APOLLO: Differential Private Online Multi-Sensor Data Prediction with Certified Performance*. IEEE International Conference on Data Mining (ICDM) 2024. Peer Review - Refereed

*Conference Proceeding*

Li, Q., Xie, Y., Wu, S. (2024). *Chrono Clustering: A Novel Methodology for Dynamic Topic Trend Analysis*. Proceedings of 2024 International Joint Conference on Neural Network (IJCNN), IEEE. <https://ieeexplore.ieee.org/document/10650581> Peer Review - Refereed

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Gu, Y., Zhao, L., Deng, B., Wu, S. (2024). *Evaluation of Thermal Attack on IoT-based Federated Learning*. Proceedings of the 2024 ACM Southeast Conference (ACMSE 2024). Peer Review - Refereed

**Xie, Ying (Professor)**

**Refereed Journal Articles**

*Journal Article, Academic Journal*

Chen, L., Li, Q., Nasif, K. F. A., Xie, Y., Deng, B., Niu, S., Pouriyeh, S., Dai, Z., Chen, J., Xie, C. Y. (2024). *AI-Driven Deep Learning Techniques in Protein Structure Prediction*. *International Journal of Molecular Sciences*, 25(15), ., Impact Factor: 4.9, <https://www.mdpi.com/1422-0067/25/15/8426> Peer Review - Refereed

*Journal Article, Academic Journal*

Gupta, S., Xie, Y., Zafar, H. (2024). *Fintech and Digital Payments: Developing a Domain Knowledge Framework*. *Journal of Information Systems Education*, 35(2), 189-202, ., <https://aisel.aisnet.org/jise/vol35/iss2/8> Peer Review - Refereed

*Journal Article, Professional Journal*

Chakravarty, S., Kumar, A., Hales, M. E., Johnson II, J. D., Xie, Y. (2024). *Machine learning and computer visualization for monocular biomechanical analysis*. *Wireless Personal Communications*, . Peer Review - Refereed

*Journal Article, Academic Journal*

Chen, J., Potlapalli, R., Quan, H., Chen, L., Xie, Y., Pouriyeh, S., Sakib, N., Liu, L., Xie, Y. (2024). *Exploring DNA Damage and Repair Mechanisms: A Review with Computational Insights*. *BioTech*, 13(1), ., Impact Factor: 2.7, <https://www.mdpi.com/2673-6284/13/1/3> Peer Review - Refereed

**Conference Proceedings**

*Conference Proceeding*

Yarmohammadtoosky, S., Xie, Y. (2024). *Data-Driven Analysis of Climate Change Impacts on Public Health: A Systematic Review and Future Directions*. Proceedings of 2024 IEEE International Conference on Big Data (BigData), IEEE. <https://ieeexplore.ieee.org/document/10825822> Peer Review - Refereed

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Li, Q., Xie, Y., Chakravarty, S., Lee, D. (2024). *EduMAS: A Novel LLM-Powered Multi-Agent Framework for Educational Support*. Proceedings of 2024 IEEE International Conference on Big Data (BigData), IEEE. Peer Review - Refereed

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Mallapragada, S., Xie, Y., Chawan, V., Hailat, Z., Wang, Y. (2024). *Multi-Modality Transformer for E-Commerce: Inferring User Purchase Intention to Bridge the Query-Product Gap* (pp. 589-598). Proceedings of 2024 IEEE International Conference on Big Data (BigData), IEEE. <https://ieeexplore.ieee.org/document/10826020> Peer Review - Refereed

*Conference Proceeding*

Don, D., Xie, Y., Yu, L., Hughes, S., Zhu, Y. (2024). *Cluster Language Model for Improved E-Commerce Retrieval and Ranking: Leveraging Query Similarity and Fine-Tuning for Personalized Results* (pp. 145-153). Proceedings of the Seventh Workshop on e-Commerce and NLP @ LREC-COLING 2024. <https://aclanthology.org/2024.ecnlp-1.15/> Peer Review - Refereed

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Chakravarty, S., Xie, Y., Wu, S. (2024). Implementing OpenRAN: Democratizing 5G Networks. *2024 IEEE 12th International Conference on Information, Communication and Networks (ICICN)* (pp. 279--283).

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Li, Q., Xie, Y., Wu, S. (2024). *Chrono Clustering: A Novel Methodology for Dynamic Topic Trend Analysis*. Proceedings of 2024 International Joint Conference on Neural Network (IJCNN), IEEE. <https://ieeexplore.ieee.org/document/10650581> Peer Review - Refereed

*Conference Proceeding*

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

***Refereed Journal Articles***

*Journal Article, Academic Journal*

Mosaiyebzadeh, F., Pouriyeh, S., Han, M., Liu, L., Xie, Y., Zhao, L., Batista, D. (2024). Privacy-Preserving Federated Learning-Based Intrusion Detection System for IoT Devices. *MDPI electronics*, ., Impact Factor: 3.0 Peer Review - Refereed

*Journal Article, Academic Journal*

Chen, J., Chen, L., Quan, H., Lee, S., Khan, K. F., Xie, Y., Li, Q., Valero, M., Dai, Z., Xie, Y. . A Comparative Analysis of SARS-CoV-2 Variants of Concern (VOC) Spike Proteins Interacting with hACE2 Enzyme. *International Journal of Molecular Sciences*, 25(15), 8032, ., <http://dx.doi.org/10.3390/ijms25158032> Peer Review - Refereed

*Journal Article, Academic Journal*

Xie, Y. (2024). AI-Driven Deep Learning Techniques in Protein Structure Prediction. *International journal of molecular sciences*, . Peer Review - Refereed

*Journal Article, Academic Journal*

Xie, Y. (2024). Comparative Analysis of SARS-CoV-2 Variants of Concern (VOC) Spike Proteins Interacting with hACE2 Enzyme. *International journal of molecular sciences*, .Peer Review - Refereed

*Journal Article, Academic Journal*

Xie, Y. (2024). Exploring DNA Damage and Repair Mechanisms: A Review with Computational Insights. *BioTech*, .Peer Review - Refereed

*Journal Article, Academic Journal*

Xie, Y. (2024). Fixed-point Encoding and Architecture Exploration for Residue Number Systems. *ACM Transactions on Architecture and Code Optimization*, .Peer Review - Refereed

*Journal Article, Academic Journal*

Zhang, S., Xie, Y., Yang, P. (2024). The impact of CSR disclosure and the roles of actors in the innovation ecosystem on firms' green innovation performance. *International Journal of Technology Management*, 96(1/2/3), 127-158, ., <http://dx.doi.org/10.1504/ijtm.2024.140252>Peer Review - Refereed

*Journal Article, Academic Journal*

Zhang, S., Xie, Y., Yang, P. (2024). The impact of CSR disclosure and the roles of actors in the innovation ecosystem on firms' green innovation performance. *International Journal of Technology Management*, 96(1/2/3), 127-158, ., <http://dx.doi.org/10.1504/ijtm.2024.140252>Peer Review - Refereed

*Journal Article, Academic Journal*

Deng, B., Nadendla, B. S., Suo, K., Xie, Y., Lo, D. C.-T. (2024). Fixed-point Encoding and Architecture Exploration for Residue Number Systems. *ACM Transactions on Architecture and Code Optimization (TACO)*, .Peer Review - Refereed

*Journal Article, Academic Journal*

Xie, Y., Valero, M. A. (2024). A Comparative Analysis of SARS-CoV-2 Variants of Concern (VOC) Spike Proteins Interacting with hACE2 Enzyme. *Frontiers in Molecular Biosciences*, ., Impact Factor: 6.113Editorial Review

*Journal Article, Academic Journal*

Chen, J., Potlapalli, R., Quan, H., Chen, L., Xie, Y., Pouriyeh, S., Sakib, N., Liu, L., Xie, Y. (2024). Exploring DNA Damage and Repair Mechanisms: A Review with Computational Insights. *BioTech*, 13(1), ., Impact Factor: 2.7, <https://www.mdpi.com/2673-6284/13/1/3>Peer Review - Refereed

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*Conference Proceeding*

Xie, Y. (2024). *Understand the mechanisms of Uracil-DNA glycosylase using computational methods*. Kennesaw State Undergraduate Research.Peer Review - Refereed

*Conference Proceeding*

L. C., K. F. A. N., Deng, B., S. N., Xie, Y. . *Predicting protein-protein binding affinity with deep learning: A comparative analysis of cnn and transformer models*. IEEE.Peer Review - Refereed

*Conference Proceeding*

Xie, Y., Fu, Q., Yang, X., Li, Z., Li, Y., Lou, Y. (2024). Markless Visual Servoing for 3C Product Assembly with Quotient Kinematics Manipulator. *2024 IEEE 18th International*

Conference on Control & Automation (ICCA). IEEE.  
<http://dx.doi.org/10.1109/icca62789.2024.10591951>Peer Review - Refereed

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

#### **Refereed Journal Articles**

*Journal Article, Academic Journal*

Xu, H., Cai, Z., Ma, L., Li, Y., Seo, D., Li, W. (2024). Overheard: Audio-based Integral Event Inference. *Journal of Data and Information Quality*, .Peer Review - Refereed

*Journal Article, Academic Journal*

Zhang, D., Huang, K., Xing, H., Chen, X., Meng, X., Xu, H., Cao, X. . Towards Latency Quality of Experience Optimization in Deploying URLLC Services. *IEEE INFOCOM 2025 - IEEE Conference on Computer Communications*, .Peer Review - Refereed

*Journal Article, Academic Journal*

Xu, H., Li, Y., Balogun, O., Wu, S., Wang, Y., Cai, Z. (2024). Security Risks Concerns of Generative AI in the IoT. *IEEE Internet of Things Magazine*, .Peer Review - Refereed

#### **Conference Proceedings**

*Conference Proceeding*

Nguyen, M. V., Zhao, L., Deng, B., Severa, W., Xu, H., Wu, S. (2024). *The Robustness of Spiking Neural Networks in Communication and its Application towards Network Efficiency in Federated Learning*. IEEE IPCCC 2024.Peer Review - Refereed

*Conference Proceeding*

Xu, H., Li, W., Wu, S., Zhao, L., Cai, Z. . *APOLLO: Differential Private Online Multi-Sensor Data Prediction with Certified Performance*. IEEE International Conference on Data Mining (ICDM) 2024.Peer Review - Refereed

*Conference Proceeding*

Zheng, D., Cao, S., Xu, H., Cao, X. (2024). *Deploying Security-Aware Service Function Chains with Asymmetric Dedicated Protection*. ICC 2024-IEEE International Conference on Communications.Peer Review - Refereed

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

#### **Refereed Journal Articles**

*Journal Article, Academic Journal*

Salini, Y., Mohanty, S., Ramesh, J., Yang, M. (2024). Cardiotocography Data Analysis for Fetal Health Classification Using Machine Learning Models. *IEEE Access*, 12, 26005 - 26022, ., Acceptance Rate: 27% - 30%, Impact Factor: 3.4Peer Review - Refereed

### **Zhang, Jian (Assistant 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*

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., Periaswamy, S. C., Patton, J. (2024). *Decentralized Neighborhood Discovery and Management in Dense RFID Systems*. 2024 IEEE International Conference on RFID Technology and Applications (RFID-TA).Peer Review - Refereed

#### *Conference Proceeding*

Ma, J., Wang, X., Powell, C., Zhang, J., Mao, S., Periaswamy, S. C., Patton, J. (2024). *Digital Twin of Retail Stores with RFID Tags Localization*. IEEE, 2024 9th International Conference on Smart and Sustainable Technologies (SpliTech).Peer Review - Refereed

#### *Conference Proceeding*

Dutta, P., Zhang, J., Amoah, B., Wang, X., Podder, K. K., Mao, S. (2024). *Enhancing RFID Observations Using Masked Autoencoders for Improved Indoor Localization*. 2024 IEEE International Conference on RFID Technology and Applications (RFID-TA).Peer Review - Refereed

#### *Conference Proceeding*

Podder, K. K., Zhang, J., Wu, Y. (2024). *IHSR: A Framework Enables Robots to Learn Novel Hand Signals From a Few Samples*. 2024 IEEE International Conference on Advanced Intelligent Mechatronics (AIM).Peer Review - Refereed

#### *Conference Proceeding*

Ma, J., Wang, X., Zhang, J., Mao, S., Periaswamy, S. C., Patton, J. (2024). *Navigating Uncertainty: Ambiguity Quantification in Fingerprinting-based Indoor Localization*. 2024 IEEE Annual Congress on Artificial Intelligence of Things (AIoT).Peer Review - Refereed

#### *Conference Proceeding*

Amoah, B., Wang, X., Zhang, J., Periaswamy, S. C., Patton, J. (2024). *Optimizing Adaptive Power Control for Enhancing Robustness in RFID Sensing*. 2024 IEEE International Conference on RFID Technology and Applications (RFID-TA).Peer Review - Refereed

*Conference Proceeding*

Kanhon Kanti, P., Zhang, J., Mao, S. (2024). *Trustworthy Hand Signal Communication Between Smart IoT Agents and Humans*. 2024 IEEE 10th World Forum on Internet of Things (WF-IoT).Peer Review - Refereed

*Conference Proceeding*

Podder, K. K., Zhang, J., Wang, L. (2024). *Universal Sign Language Recognition System Using Gesture Description Generation and Large Language Model*. International Conference on Wireless Artificial Intelligent Computing Systems and Applications.Peer Review - Refereed

*Conference Proceeding*

Dutta, P., Podder, K. K., Zhang, J., Hecht, C., Swarna, S., Bhavsar, P. (2024). *A Self-Supervised Learning Approach to Road Anomaly Detection Using Masked Autoencoders*. ASCE ICTD APM-ATS 2024.Peer Review - Refereed

**Zhang, Xuechen (Associate Professor)**

***Refereed Journal Articles***

*Journal Article, Academic Journal*

Pan, Z., Li, X., He, S., Zhang, X., Wang, R., Gao, Y., Chen, G., Sun, X.-H. (2024). AMBEA: Aggressive Maximal Biclique Enumeration in Large Bipartite Graph Computing. *IEEE Transactions on Computers*, 73(12), 2664-2677, ., <https://doi.org/10.1109/tc.2024.3441864>Peer Review - Refereed

*Journal Article, Academic Journal*

Dang, Z., He, S., Zhang, X., Hong, P., Li, Z., Chen, X., Song, H., Sun, X.-H., Chen, G. (2024). PMAlloc: A Holistic Approach to Improving Persistent Memory Allocation. *ACM Transactions on Computer Systems*, 42(3-4), 1-52, ., <https://doi.org/10.1145/3643886>Peer Review - Refereed

***Conference Proceedings***

*Conference Proceeding*

Sanchez, K., Rongon, R., Gavin, A., Byna, S., Wu, K., Zhang, X. (2024). *PMIO: Optimizing Parallel Collective I/O Accesses through Node-Local Persistent Memory*. Elsevier BV. <https://doi.org/10.2139/ssrn.5547309>Peer Review - Refereed

*Conference Proceeding*

Wong, P., Mosuli, D. S., Zhang, X., Yang, X. (2024). Hardware Generation on Trigonometric Functions. *2024 IEEE International Conference on Big Data (BigData)* (pp. 7571-7576). IEEE. <https://doi.org/10.1109/bigdata62323.2024.10825243>Peer Review - Refereed

*Conference Proceeding*

Pan, Z., He, S., Li, X., Zhang, X., Yin, Y., Wang, R., Shou, L., Song, M., Sun, X.-H., Chen, G. (2024). Enumeration of Billions of Maximal Bicliques in Bipartite Graphs without Using GPUs. *SC24: International Conference for High Performance Computing, Networking, Storage and Analysis* (pp. 1-15). IEEE. <https://doi.org/10.1109/sc41406.2024.00106>Peer Review - Refereed

*Conference Proceeding*

Wu, T., He, S., Zhu, J., Chen, W., Yang, S., Chen, P., Yin, Y., Zhang, X., Sun, X.-H., Chen, G. (2024). AUTOHET: An Automated Heterogeneous ReRAM-Based Accelerator for DNN Inference. *Proceedings of the 53rd International Conference on Parallel Processing* (pp. 1052-1061). ACM. <https://doi.org/10.1145/3673038.3673143>Peer Review - Refereed

*Conference Proceeding*

Li, Z., He, S., Dang, Z., Hong, P., Zhang, X., Wang, R., Wu, F. (2024). CCL-BTree: A Crash-Consistent Locality-Aware B+-Tree for Reducing XPBuffer-Induced Write Amplification in Persistent Memory. *Proceedings of the Nineteenth European Conference on Computer Systems* (pp. 441-455). ACM. <https://doi.org/10.1145/3627703.3629582>Peer Review - Refereed

**Zhao, Liang (Assistant Professor)**

**Refereed Journal Articles**

*Journal Article, Academic Journal*

Mosaiyebzadeh, F., Pouriye, S., Han, M., Liu, L., Xie, Y., Zhao, L., Batista, D. (2024). Privacy-Preserving Federated Learning-Based Intrusion Detection System for IoHT Devices. *MDPI electronics*, ., Impact Factor: 3.0Peer Review - Refereed

*Journal Article, Academic Journal*

Anjum, N., Mehedi Hasan, M., Umme Salma, S., Zhao, L., Valero de Clemente, M. A., Sakib, N. (2024). ScreenSafeFuture: A parent-empathetic and pragmatic mhealth application for toddlers' brain development addressing screen-addiction challenges. *SoftwareX*, .Peer Review - Refereed

*Journal Article, Academic Journal*

Gu, Y., Zhao, L., Wu, S. (2024). Evaluation of Thermal Stress on Heterogeneous IoT-Based Federated Learning. *Electronics*, .Peer Review - Refereed

*Journal Article, Academic Journal*

Zhao, L., Valero, M. A., Pouriye, S., Li, F., Guo, L., Han, Z. (2024). A Decentralized Communication-Efficient Federated Analytics Framework for Connected Vehicles. *IEEE Transactions on Vehicular Technology*, ., Impact Factor: 6.239Peer Review - Refereed

**Conference Proceedings**

*Conference Proceeding*

Nguyen, M. V., Zhao, L., Deng, B., Severa, W., Xu, H., Wu, S. (2024). *The Robustness of Spiking Neural Networks in Communication and its Application towards Network Efficiency in Federated Learning*. IEEE IPCCC 2024.Peer Review - Refereed

*Conference Proceeding*

Xu, H., Li, W., Wu, S., Zhao, L., Cai, Z. . *APOLLO: Differential Private Online Multi-Sensor Data Prediction with Certified Performance*. IEEE International Conference on Data Mining (ICDM) 2024.Peer Review - Refereed

*Conference Proceeding*

Zhao, L. (2024). *Online Dynamic Cyber-Attack Diagnosis in Power Electronics Systems Based on Few-Shot Learning*. IEEE PESGM2024.Peer Review - Refereed

*Conference Proceeding*

Dhar, N., Deng, B., Lo, D. C.-T., Wu, X., Zhao, L., Suo, K. (2024). *An Empirical Analysis and Resource Footprint Study of Deploying Large Language Models on Edge Devices*. Proceedings of the 2024 ACM Southeast Conference (ACMSE 2024).Peer Review - Refereed

*Conference Proceeding*

Gu, Y., Zhao, L., Deng, B., Wu, S. (2024). *Evaluation of Thermal Attack on IoT-based Federated Learning*. Proceedings of the 2024 ACM Southeast Conference (ACMSE 2024).Peer Review - Refereed

## Department of Software Engineering and Game Development

Dehbozorgi, Nasrin (Assistant Professor)

### Conference Proceedings

#### Conference Proceeding

Dehbozorgi, N., Teja Kunuku, M. . *Deep-Reflect: an LLM-based Reflection Analytics Tool*. International Learning Analytics and Knowledge. Peer Review - Refereed

#### Conference Proceeding

Gottam, V., Dehbozorgi, N., Lee, S. (2024). *AI-based Discourse Analysis System (ADAS) for Improved STEM Education*. IEEE - ISEC.  
<https://ieeexplore.ieee.org/document/10665112> Peer Review - Refereed

#### Conference Proceeding

Dehbozorgi, N., Kunuku, M. T., Pouriye, S. (2024). *Personalized Pedagogy Through a LLM-Based Recommender System*. 25th International Conference on Artificial Intelligence in Education (AIED 2024). Peer Review - Refereed

#### Conference Proceeding

Shedage, P. S., Pouriye, S., Meimandi Parizi, R., Han, M., Sannino, G., Dehbozorgi, N. (2024). *Stress Detection Using Multimodal Physiological Signals With Machine Learning From Wearable Devices*. 4th IEEE International Conference on ICT Solutions for eHealth. Peer Review - Refereed

#### Conference Proceeding

Gopi, S., Sreeknath, D., Dehbozorgi, N. . *Enhancing Engineering Education Through LLM-Driven Adaptive Quiz Generation: A RAG-Based Approach*. IEEE - Frontiers in Education. Peer Review - Refereed

#### Conference Proceeding

Dehbozorgi, N., Nezafati, M., Roopaei, M. . *Integrating Computational Thinking Into the Curricula to Bridge the Skill Gap in Engineering Education*. IEEE - Frontiers in Education. Peer Review - Refereed

#### Conference Proceeding

Gopi, S., Dehbozorgi, N. . *Neural Pathways to Attention Enhancement: EEG Spectral Ratio Analysis of CM-II Meditation's Effect on Student Attention*. IEEE - Frontiers in Education. Peer Review - Refereed

#### Conference Proceeding

Gopi, S., Dehbozorgi, N. (2024). *SerenePulse: A Web App Pipeline for Real-time Physiological Monitoring Using rPPG and OpenAI LLMs*. ASEE. Peer Review - Refereed

#### Conference Proceeding

Roopaei, M., Dehbozorgi, N. (2024). *AI in education: Crafting policies for tomorrow's learning landscape*. IEEE Integrated STEM Education Conference (ISEC). Peer Review - Refereed

#### Conference Proceeding

Dehbozorgi, N., Teja Kunuku, M. (2024). *An LLM-based Reflection Analysis Tool for Identifying and Addressing Challenging Topics*. ACM - SIGCSE. Peer Review - Refereed

#### Conference Proceeding

Teja Kunulu, M., Dehbozorgi, N. (2024). *Enhanced Speech Recognition via A TensorFlow-Powered Lip Reading Model for Educational Applications*. ASEE. Peer Review - Refereed

*Conference Proceeding*

Dehbozorgi, N., Roopaei, M. (2024). Improving Computational Thinking Competencies in STEM Higher Education. *This paper is published based on the Student Success grant in CCSE*. IEEE Integrated STEM Education Conference (ISEC) |. Peer Review - Refereed

*Conference Proceeding*

Gopi, S., Dehbozorgi, N., Khan, M. A. A. H. (2024). *Exploring the Impact of CM-II Meditation on Stress Levels in College Students through HRV Analysis*. ASEE SE. Peer Review - Refereed

**Huang, Yan (Associate Professor)**

***Refereed Journal Articles***

*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

*Journal Article, Academic Journal*

Liu, Z., Huang, Y., Wang, J., Yuan, G., Pang, J. (2024). Multiscale Information Fusion Based on Large Model Inspired Bacterial Detection. *Big Data Mining and Analytics*, . Impact Factor: 7.7 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*

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*

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., Heidari Kohol, 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

*Journal Article, Academic Journal*

Kumarapeli, D. R., Jung, S., Lindeman, R. W. (2024). Privacy Threats of Behaviour Identity Detection in VR. *Frontiers in Virtual Reality Virtual Reality in Industry*, 5, .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

*Conference Proceeding*

Jung, S., Li, J. (2024). *The Potential Impact of VR Classroom Style on Learning Efficacy*. 2024 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW). Peer Review - Refereed

*Conference Proceeding*

Jung, S., Wile, N., Jung, K. (2004). *Exploring Implicit and Explicit Stimuli of Virtual Agents with Increased Group Size in VR*. IEEE. Peer Review - Refereed

*Conference Proceeding*

Kumarapeli, D. R., Jung, S., Lindeman, R. W. . *Towards an effective means of collecting validated behavioural data in VR*. 2024 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW). 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*

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*

Streeter, M., Li, Z., Li, J., Zhang, C., Tian, S., He, S. (2024). Integrating Virtual and Augmented Reality with Brain-Computer Interfaces for ADHD and ASD Management: A Preliminary Review. *JOURNAL OF INFORMATION SYSTEMS APPLIED RESEARCH*, 17(1), 33-41, .Peer Review - Refereed

*Journal Article, Academic Journal*

Li, J., Orlosky, J., Jirau-Rosalay, W., Brown, S., Rockich-Winston, N. (2024). Immersing Healthcare Students in a Virtual Reality Parkinson's Disease Experience. *Journal of Medical Education and Curricular Development MDE-22-0162*, ., Impact Factor: 2.1Peer Review - Refereed

**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

*Conference Proceeding*

Razzak, R., Li, J., Sokhadze, E., He, J. (2024). *Evaluating Stress and Driving Performance Using VR and Physiological Data: A Case Study*. 2024 Proceedings of the ISCAP Conference.Peer Review - Refereed

*Conference Proceeding*

Al Shafian, S., Hu, D., Li, Y., Adhikari, S. (2024). *Improving Construction Site Safety by Incident Reporting Through Utilizing Virtual Reality*. ASEE-SE.  
<https://peer.asee.org/improving-construction-site-safety-by-incident-reporting-through-utilizing-virtual-reality>Peer Review - Refereed

*Conference Proceeding*

Jung, S., Li, J. (2024). *The Potential Impact of VR Classroom Style on Learning Efficacy*. 2024 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW).Peer Review - Refereed

**Other Intellectual Contributions**

*Software*

Li, Y., Gohlke, A., Lott, D., Lewis, J. (2024). *Kottabos VR*. Steam.  
[https://store.steampowered.com/app/2626890/Kottabos\\_VR/](https://store.steampowered.com/app/2626890/Kottabos_VR/)Editorial Review

*Software*

Li, Y., Gilde, K., Blakely, S., Mundy, J. C. (2024). *Ur*. Steam.  
<https://store.steampowered.com/app/2504630/Ur/>Editorial Review

*Published Abstract*

Acklen, I., Keyser, R. S., Li, L., Li, Y., Valero de Clemente, M. A. (2024). *Blood Donation Frequency Related to Social Media Usage and Preferences*. KSU Digital Commons.Editorial Review

**Li, Xia (Assistant Professor)**

**Conference Proceedings**

*Conference Proceeding*

Li, X. . *An Empirical Study of Prompt-based Non-functional Requirements Classification*. 5th International Conference on Software Engineering and Managing Information Technology (SEMIT 2024).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. . Ctt 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\$\backslashslash\$r'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*

Jagarlamudi, G. K., Yazdinejad, A., Meimandi Parizi, R., Pouriye, S. (2024). Exploring privacy measurement in federated learning. *The Journal of Supercomputing*, 1--41, ., Impact Factor: 2.5Peer Review - Refereed

*Journal Article, Academic Journal*

Yazdinejad, A., Dehghantaha, A., Karimipour, H., Srivastava, G., Meimandi Parizi, R. (2024). A Robust Privacy-Preserving Federated Learning Model Against Model Poisoning Attacks. *IEEE Transactions on Information Forensics and Security*, 19, 6693-6708, ., Acceptance Rate: 11.7, Impact Factor: 6.3Peer Review - Refereed

*Journal Article, Academic Journal*

Yazdinejad, A., Dehghantaha, A., Srivastava, G., Karimipour, H., Meimandi Parizi, R. (2024). Hybrid Privacy Preserving Federated Learning Against Irregular Users in Next-Generation Internet of Things. *Journal of Systems Architecture*, 148, 103088, ., Impact Factor: 3.8, <https://www.sciencedirect.com/science/article/pii/S1383762124000250>Peer Review - Refereed

*Journal Article, Academic Journal*

Namakshenas, D., Yazdinejad, A., Dehghantaha, A., Meimandi Parizi, R., Srivastava, G. (2024). IP2FL: Interpretation-Based Privacy-Preserving Federated Learning for Industrial Cyber-Physical Systems. *IEEE Transactions on Industrial Cyber-Physical Systems*, 2, 321-330, ., Impact Factor: 2.3Peer Review - Refereed

*Journal Article, Academic Journal*

Nalla, V., Pouriye, S., Meimandi Parizi, R., Trivedi, H., Hwang, I., Woo, M. (2024). Deep learning for computer-aided abnormalities classification in digital mammogram: A data-centric perspective. *Current Problems in Diagnostic Radiology*, ., Impact Factor: 1.5Peer Review - Refereed

### **Conference Proceedings**

*Conference Proceeding*

Mothukuri, V., Meimandi Parizi, R., Massa, J. L., Yazdinejad, A. (2024). An AI Multi-Model Approach to DeFi Project Trust Scoring and Security. *2024 IEEE International Conference on Blockchain (Blockchain)* (pp. 19-28). IEEE.Peer Review - Refereed

*Conference Proceeding*

Dehghantanha, A., Yazdinejad, A., Meimandi Parizi, R. (2024). Autonomous Cybersecurity: Evolving Challenges, Emerging Opportunities, and Future Research Trajectories. *Proceedings of the Workshop on Autonomous Cybersecurity* (pp. 1–10). New York, NY, USA: Association for Computing Machinery.  
<https://doi.org/10.1145/3689933.3690832>Peer Review - Refereed

*Conference Proceeding*

Dehghantanha, A., Meimandi Parizi, R., Epiphaniou, G. (2024). AutonomousCyber '24 -- Workshop on Autonomous Cybersecurity. *Proceedings of the 2024 on ACM SIGSAC Conference on Computer and Communications Security* (pp. 4911–4913). New York, NY, USA: Association for Computing Machinery.  
<https://doi.org/10.1145/3658644.3691547>Editorial Review

*Conference Proceeding*

Mothukuri, V., Meimandi Parizi, R., Massa, J. L. (2024). LLMSmartSec: Smart Contract Security Auditing with LLM and Annotated Control Flow Graph. *2024 IEEE International Conference on Blockchain (Blockchain)* (pp. 434-441). IEEE.Peer Review - Refereed

*Conference Proceeding*

Shedage, P. S., Pouriyeh, S., Meimandi Parizi, R., Han, M., Sannino, G., Dehbozorgi, N. (2024). *Stress Detection Using Multimodal Physiological Signals With Machine Learning From Wearable Devices*. 4th IEEE International Conference on ICT Solutions for eHealth.Peer Review - Refereed

**Murphy, Nick D. (Lecturer)**

***Conference Proceedings***

*Conference Proceeding*

Murphy, N. . *Designing a Representation Learning Method for Wavefront Estimation from Focal Plane Speckle Images*. Advanced Maui Optical and Space Surveillance Technologies Conference.Editorial Review

**Pournaghshband, Hassan (Professor)**

***Conference Proceedings***

*Conference Proceeding*

Pournaghshband, H. (2024). *Middlebox Detection: Evasion and Effectiveness*. IEEE Xplore for the IEEE International Black Sea Conference on Communications and.Peer Review - Refereed

*Conference Proceeding*

Pournaghshband, H. (2024). *Entailing Security Mindset in Foundational CS Courses: An Interactive Approach*. VIII IEEE World Engineering Education Conference.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

*Journal Article, Academic Journal*

Ferrari, A., Huichapa, T., Spoletini, P., Novielli, N., Fucci, D., Girardi, D. (2024). Using Voice and Biofeedback to Predict User Engagement during Product Feedback Interviews. *ACM Transactions on Software Engineering and Methodology*, .Peer Review - Refereed

### **Conference Proceedings**

*Conference Proceeding*

Namukasa, M., Spoletini, P., Peltsverger, S. B. (2024). Assessment and Instructor Engagement: A Student-Centric Perspective from Gender and Minority Viewpoints. *Proceedings of the 25th Annual Conference on Information Technology Education* (pp. 143–144). New York, NY, USA: Association for Computing Machinery. <https://doi.org/10.1145/3686852.3687082>

*Conference Proceeding*

Broccia, G., ter Beek, M. H., Lafuente, A. L., Spoletini, P., Ferrari, A. (2024). *Assessing the Understandability of Attack-Defense Trees for Modelling Security Requirements: an Experimental Investigation*. Proceeding of the 30th International Working Conference on Requirement Engineering: Foundation for Software Quality. Peer Review - Refereed

*Conference Proceeding*

Spoletini, P., Ferrari, A. (2024). *The Return of Formal Requirements Engineering in the Era of Large Language Models*. Proceeding of the 30th International Working Conference on Requirement Engineering: Foundation for Software Quality. Peer Review - Refereed

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

### **Refereed Journal Articles**

*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

*Journal Article, Academic Journal*

Sai, A. M. V. V., Wang, C., Cai, Z., Li, Y. (2024). Navigating the Digital Twin Network Landscape: A Survey on Architecture, Applications, Privacy and Security. *High-Confidence Computing*, .Peer Review - Refereed

*Journal Article, Academic Journal*

Zia, Q., Wang, C., Zhu, S., Li, Y. (2024). Priority based inter-twin communication in vehicular digital twin networks. *International Journal of Parallel, Emergent and Distributed Systems*, .Peer Review - Refereed

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

### **Refereed Journal Articles**

*Journal Article, Academic Journal*

Lu, F., Pavanatto, L., Davari, S., Zhang, L., Lisle, L., Bowman, D. (2024). "Where did my apps go?" Supporting Scalable and Transition-Aware Access to Everyday Applications in Head-Worn Augmented Reality. *IEEE Transactions on Visualization and Computer Graphics*, ., Acceptance Rate: 24%, Impact Factor: 5.11 Editorial Review

### **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

#### *Conference Proceeding*

Zhang, L., Bagasra, A., Kay, E., Lichtenthal, W. G. (2024). *Designing Generative Artificial Intelligence Integrated Immersive Virtual Reality Therapeutic Experiences to Support Meaning-centered Grief Therapies for Bereaved Parents*. 2024 IEEE International Symposium on Mixed and Augmented Reality Adjunct (ISMAR-Adjunct). Peer Review - Refereed

## School of Data Science and Analytics

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

### **Conference Proceedings**

#### *Conference Proceeding*

Aktas, M. E., Akbas, E., Hahn, A. (2024). Liars are More Influential: Effect of Deception in Influence Maximization on Social Networks. *2024 IEEE International Conference on Big Data (BigData)* (pp. 1-10). IEEE.  
<https://doi.org/10.1109/bigdata62323.2024.10938987>Peer Review - Refereed

#### *Conference Proceeding*

Akin, H. S., Aktas, M. E., Islam, M. I., Hossain, T., Akbas, E. (2024). Exploring Similarity-Based Graph Compression for Efficient Network Analysis and Embedding. *2024 33rd International Conference on Computer Communications and Networks (ICCCN)* (pp. 1-6). IEEE. <https://doi.org/10.1109/icccn61486.2024.10637636>Peer Review - Refereed

**Brown, Austin (Assistant Professor)**

### **Refereed Journal Articles**

#### *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*

Chechenova, M., Stratton, H., Kiani, K., Gerberich, E., Alekseyenko, A., Tamba, N., An, S., Castillo, L., Czajkowski, E., Talley, C., Brown, A., Bryantsev, A. L. (2024). Muscle degeneration in aging Drosophila flies: the role of mechanical stress. *Skeletal Muscle/Springer-Nature*, 14, ., Impact Factor: 5.3,  
<https://link.springer.com/article/10.1186/s13395-024-00352-4>Peer Review - Refereed

#### *Journal Article, Academic Journal*

White, M. A., Maguire, M. B., Brown, A. (2024). Enhancing Nursing Students' Attitudes Toward Older Adults Through an Artificial Intelligence Virtual Simulation: A Mixed-Method Design. *Nursing Reports*, 14(4), 3819-3829, ., Impact Factor: 2.4Peer Review - Refereed

#### *Journal Article, Academic Journal*

Wymer, S., DeMartini, A., Brown, A. . Streaming the CrossFit Games: Exploring Consumer Engagement in a Niche Sport. *International Journal of Sport Communication*, ., Impact Factor: 1.8Peer Review - Refereed

#### *Journal Article, Academic Journal*

White, M. A., Maguire, M. B., Brown, A., Keen, D. L. (2024). Impact of Artificial Intelligence on Nursing Students' Attitudes toward Older Adults: A Pre/Post-Study. *Nursing Reports*, 14(2), 1129-1135, ., Impact Factor: 2.4Peer Review - Refereed

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

### **Refereed Journal Articles**

*Journal Article, Professional Journal*

Ferguson, A. N., Granger, M., Olsen, I. E., Clark, R. H., Woo, J. G. (2024). Mortality Risk in US NICU Infants by Birth Size Classifications Comparing Three Growth Curves. *Neonatology*, ., Acceptance Rate: 21%, Impact Factor: 5.106Peer Review - Refereed

### **Franks, Bill (Lecturer)**

#### **Conference Proceedings**

*Conference Proceeding*

Boyapati, M., Meesala, L., Aygun, R., Franks, W., Choi, H., Riordan, S., Modgil, G. . *LevelEval: Adaptive Pipeline for Evaluating LLM as a Judge - Analysis on Open LLMs as judges*. AlxDKE 2024 (IEEE International Conference on AI x Data & Knowledge Engineering).Peer Review - Refereed

*Conference Proceeding*

Boyapati, M., Meesala, L., Aygun, R., Franks, W., Choi, H., Riordan, S., Modgil, G. . *Qualitative Diagnosis of LLMs as Judges using LevelEval*. The 23rd IEEE International Conference on Machine Learning and Applications (IEEE ICMLA).Peer Review - Refereed

### **Ghosh, Dhrubajyoti (Assistant Professor)**

#### **Refereed Journal Articles**

*Journal Article, Academic Journal*

Sotoudeh-Paima, S., Segars, W. P., Ghosh, D., Luo, S., Samei, E., Abadi, E. (2024). A systematic assessment and optimization of photon-counting CT for lung density quantifications. *Medical Physics*, 51(4), 2893-2904, ., <https://doi.org/10.1002/mp.16987>Peer Review - Refereed

#### **Conference Proceedings**

*Conference Proceeding*

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., Luo, S., Segars, W. P., Abadi, E., Lafata, K. J., Samei, E., Lo, J. Y. (2024). Virtual NLST: towards replicating national lung screening trial. In Fahrig, Rebecca; Sabol, John M.; Li, Ke (Ed.), *Medical Imaging 2024: Physics of Medical Imaging* (pp. 82). SPIE. <https://doi.org/10.1117/12.3006915>Peer Review - Refereed

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

#### **Book Chapters**

*Book, Chapter in Scholarly Book-New*

Lahman, M., Gittner, K. (2024). Chapter contributions: Team researchers utilizing different qualitative data analysis software; Software snafu: A lesson in saving version copies. *Conducting Qualitative Research that is Culturally Responsive and Antiracist*. SAGE.

### **Refereed Journal Articles**

*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

*Journal Article, Academic Journal*

Swahn, M., Gittner, K., Lyons, M., Nielsen, K., Mobley, K., Culbreth, R., Palmier, J., Johnson, N., Matte, M., Nabulya, A. (2024). Advancing mhealth research in low resource settings: young women's insights and implementation challenges with wearable smartwatch devices in Uganda. *Sensors*, ., Impact Factor: 3.5Peer Review - Refereed

*Journal Article, Academic Journal*

Swahn, M., Gittner, K., Lyons, M., Neilson, K., Mobley, K., Culbreth, R., Palmier, J., Johnson, N. E., Matte, M., Nabulya, A. (2024). Advancing mHealth Research in Low-Resource Settings: Young Women's Insights and Implementation Challenges with Wearable Smartwatch Devices in Uganda. *Sensors*, 24(17), ., Impact Factor: 3.4, <https://www.mdpi.com/1424-8220/24/17/5591>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. (2024). *AI Use in Education (2024 dataset)*. na.No Review

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

Matheny, L., Gittner, K. (2024). *FAALS Instruction Assessment: Qualtrics (2024 dataset)*. na.No Review

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

Matheny, L., Gittner, K. (2024). *Fraud LLM Assessment for AI Infiltration (2024 dataset)*. na.No Review

### **Grundlingh, Nina (Lecturer)**

#### **Refereed Journal Articles**

*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/1679/1364P>Peer Review - Refereed

## Huang, Jiajing (Assistant Professor)

### Refereed Journal Articles

*Journal Article, Academic Journal*

Li, G., Ren, L., Pradhan, O., O'Neill, Z., Wen, J., Yang, Z., Fu, Y., Chu, M., Huang, J., Wu, T., Candan, K. S., Adetola, V., Zhu, Q. (2024). Emulation and detection of physical faults and cyber-attacks on building energy systems through real-time hardware-in-the-loop experiments. *Energy and Buildings*, 320, 114596, .. <https://doi.org/10.1016/j.enbuild.2024.114596>Peer Review - Refereed

*Journal Article, Academic Journal*

Pradhan, O., Wen, J., Hälleberg, D., Chen, Z., Varman, N., Huang, J., Wu, T., Candan, K. S., O'Neill, Z. (2024). Evaluation of data imputation approaches for multi-stream building systems data  
<sup>1</sup>. *Science and Technology for the Built Environment*, 30(8), 1035-1048, .. <https://doi.org/10.1080/23744731.2024.2351311>Peer Review - Refereed

*Journal Article, Academic Journal*

Huang, J., Ghalamsiah, N., Patharkar, A., Pradhan, O., Chu, M., Wu, T., Wen, J., O'Neill, Z., Selcuk Candan, K. (2024). An entropy-based causality framework for cross-level faults diagnosis and isolation in building HVAC systems. *Energy and Buildings*, 317, 114378, .. <https://doi.org/10.1016/j.enbuild.2024.114378>Peer Review - Refereed

### Non-Refereed Journal Articles

*Journal Article, Academic Journal*

Patharkar, A., Huang, J., Wu, T., Forzani, E., Thomas, L., Lind, M., Gades, N. (2024). Eigen-entropy based time series signatures to support multivariate time series classification. *Scientific Reports*, 14(1), .. <https://doi.org/10.1038/s41598-024-66953-7>

### Conference Proceedings

*Conference Proceeding*

Huang, J., Patharkar, A., Wu, T., Wen, J., O'Neill, Z., Candan, K. S. (2024). A feature extraction framework with entropy on graphs for cross-dataset building fault detection. *2024 IEEE 20th International Conference on Automation Science and Engineering (CASE)* (pp. 2067-2072). IEEE. <https://doi.org/10.1109/case59546.2024.10711655>

## Karami, Amir (Associate Professor)

### Refereed Journal Articles

*Journal Article, Academic Journal*

Karami, A. (2024). Health Use Cases of AI Chatbots: Identification and Analysis of ChatGPT Prompts in Social Media Discourses. *Big Data and Cognitive Computing*, .. Impact Factor: 3.7Peer Review - Refereed

*Journal Article, Academic Journal*

Karami, A. (2024). Hidden in Plain Sight For Too Long: Using Text Mining Techniques to Shine a Light on Workplace Sexism and Sexual Harassment. *Psychology of Violence*, .. Impact Factor: 2.8Peer Review - Refereed

*Journal Article, Academic Journal*

Karami, A. (2024). Hidden in plain sight for too long: Using text mining techniques to shine a light on workplace sexism and sexual harassment. *Psychology of Violence*, ., Impact Factor: 2.4Peer Review - Refereed

**Liu, Manyun (Part-Time Assistant Professor)**

**Non-Refereed Journal Articles**

*Journal Article, Academic Journal*

Biswas, P., Adebile, T. V., Sejoro, S., Liu, M., Zhang, X., Tu, W., Yu, L. (2024). Association of Sleep Duration and all-cause and cancer-specific mortality: results of 2004 National Health Interview Survey (NHIS). *Sleep and Biological Rhythms*, 1--11, .

*Journal Article, Academic Journal*

Adebile, T. V., Whitworth, R., Biswas, P., Sejoro, S., Liu, M., Zhang, X., Yu, L. (2024). Influence of race and age in sleep duration and mortality relationship among adults in the United States: results from the 2004 NHIS-NDI record linkage study. *Sleep and Biological Rhythms*, 1--9, .

**Luo, Bin (Assistant Professor)**

**Refereed Journal Articles**

*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

*Journal Article, Academic Journal*

Knutson, T. P., Luo, B., Halabi, S., Dehm, S. . AR Alterations Inform Circulating Tumor DNA Detection in Metastatic Castration- Resistant Prostate Cancer Patients. *Nature Communications*, 15(10648), ., Impact Factor: 14.7Peer Review - Refereed

**Matheny, Lauren (Assistant Professor)**

**Refereed Journal Articles**

*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

*Journal Article, Academic Journal*

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

*Journal Article, Academic Journal*

Obey, M., Schafer, K., Matheny, L. M., McAndrew, C., Ricci, W., Backus, J. (2024).  
Syndesmotom Suture Button Fixation Results in Higher Tegner Activity Scale Scores when  
Compared to Screw Fixation: A Multicenter Investigation. *Foot and Ankle Specialist*, .,  
Impact Factor: 1.6, <https://journals.sagepub.com/home/fas>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. (2024). *AI Use in Education (2024 dataset)*. na.No Review

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

Matheny, L., Gittner, K. (2024). *FAALS Instruction Assessment: Qualtrics (2024 dataset)*.  
na.No Review

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

Matheny, L., Gittner, K. (2024). *Fraud LLM Assessment for AI Infiltration (2024 dataset)*.  
na.No Review

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

#### **Refereed Journal Articles**

*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

### **Ray, Herman E. (Professor)**

#### **Refereed Journal Articles**

*Journal Article, Academic Journal*

Walker, B., Ray, H. E., Shao, P., D'Ambrosio, C., White, C., Walker, M. (2024). Comparing  
prospectively assigned trial and real-world lung cancer patients. *Journal of Comparative  
Effectiveness Research*, .Peer Review - Refereed

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

#### **Refereed Journal Articles**

*Journal Article, Academic Journal*

Taasoobshirazi, G., J., Ajubor, A. (2024). An interdisciplinary approach to studying academic success in STEM. *Contemporary Mathematics and Science Education*, 5(2), .Peer Review - Refereed

*Journal Article, Academic Journal*

Nonterah, C., Hubbard, R., Taasoobshirazi, G., Hahn, N., Peifer, J., Outsey, S. (2024). Collective Self-Esteem and Well-being Among College Students in Ghana. *International Perspectives in Psychology: Research, Practice, Consultation*, ., Impact Factor: 1.40Peer Review - Refereed

*Journal Article, Professional Journal*

Hedenstrom, M., Toney, S., Knotts, K., Talton, E., Ndungu, J., Noble, C., Spiva, L., Hale, G., Taasoobshirazi, G., Cliett, T. (2024). Lend a Helping Hand- Mentoring through Chaos. *Nursing Managemewnt*, .Peer Review - Refereed

### **Woo, MinJae (Assistant Professor)**

#### **Refereed Journal Articles**

*Journal Article, Academic Journal*

Nalla, V., Pouriye, S., Meimandi Parizi, R., Trivedi, H., Hwang, I., Woo, M. (2024). Deep learning for computer-aided abnormalities classification in digital mammogram: A data-centric perspective. *Current Problems in Diagnostic Radiology*, ., Impact Factor: 1.5Peer Review - Refereed

#### **Conference Proceedings**

*Conference Proceeding*

Lee, S., Koganti, S. C., Hwang, I., Woo, M. (2024). *Class probability-guided Ensemble Learning-based Semantic Segmentation to Predict Cancerous Regions on Hematoxylin and Eosin Images*. IEEE Semantic Computing.Peer Review - Refereed

### **Zhang, Xinyan (Associate Professor)**

#### **Refereed Journal Articles**

*Journal Article, Academic Journal*

Zhang, L., Zhang, X., Leach, J. M., Rahman, A. F., Yi, N. (2024). Bayesian compositional models for ordinal response. *Statistical Methods in Medical Research*, 33(6), 1043--1054, .Peer Review - Refereed

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

*Journal Article, Academic Journal*

Biswas, P., Adebile, T. V., Sejoro, S., Liu, M., Zhang, X., Tu, W., Yu, L. (2024). Association of Sleep Duration and all-cause and cancer-specific mortality: results of 2004 National Health Interview Survey (NHIS). *Sleep and Biological Rhythms*, 1--11, .

*Journal Article, Academic Journal*

Adebile, T. V., Whitworth, R., Biswas, P., Sejoro, S., Liu, M., Zhang, X., Yu, L. (2024). Influence of race and age in sleep duration and mortality relationship among adults in the United States: results from the 2004 NHIS-NDI record linkage study. *Sleep and Biological Rhythms*, 1--9, .



## Uncategorized Department

Dakshit, Sagnik

### **Book Chapters**

*Book, Chapter in Scholarly Book-New*

Nikil Sharan Prabahar Balasubramanian, Dakshit, S. (2024). *Explanations of Augmentation Methods for Deep Learning ECG Classification*. [https://doi.org/10.1007/978-3-031-66535-6\\_30](https://doi.org/10.1007/978-3-031-66535-6_30)

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

*Journal Article, Academic Journal*

Dakshit, S. (2024). Multiview Outlier Filtered Pediatric Heart Sound Classification. *International Journal of Advanced Computer Science and Applications*, ., <http://dx.doi.org/10.14569/ijacsa.2024.0150501>

### **Conference Proceedings**

*Conference Proceeding*

Dakshit, S. (2024). Abstaining ECG Classifiers Through Explainable Prototypical Spaces. *2024 IEEE 12th International Conference on Healthcare Informatics (ICHI)* (pp. 651-659). IEEE. <https://doi.org/10.1109/ichi61247.2024.00104>

*Conference Proceeding*

Dakshit, S. (2024). *Faculty Perspectives on the Potential of RAG in Computer Science Higher Education*. <https://doi.org/10.1145/3686852.3686864>

### **Other Intellectual Contributions**

Nikil Sharan Prabahar Balasubramanian, Dakshit, S. (2024). *Can Public LLMs be used for Self-Diagnosis of Medical Conditions ?*. <https://arxiv.org/abs/2405.11407>

Dakshit, S. (2024). *Faculty Perspectives on the Potential of RAG in Computer Science Higher Education*. <https://arxiv.org/abs/2408.01462>

Gu, Huayue

### **Refereed Journal Articles**

*Journal Article, Academic Journal*

Gu, H., Li, Z., Yu, R., Wang, X., Zhou, F., Liu, J., Xue, G. (2024). FENDI: Toward High-Fidelity Entanglement Distribution in the Quantum Internet. *IEEE/ACM Transactions on Networking*, 32(6), 5033-5048, ., <https://doi.org/10.1109/tnet.2024.3450271>Peer Review - Refereed

*Journal Article, Academic Journal*

Wang, X., Yu, R., Yang, D., Xue, G., Gu, H., Li, Z., Zhou, F. (2024). Fence: Fee-Based Online Balance-Aware Routing in Payment Channel Networks. *IEEE/ACM Transactions on Networking*, 32(2), 1661-1676, ., <https://doi.org/10.1109/tnet.2023.3324136>Peer Review - Refereed

### **Conference Proceedings**

*Conference Proceeding*

Wang, X., Yu, R., Yang, D., Gu, H., Li, Z. (2024). VeriEdge: Verifying and Enforcing Service Level Agreements for Pervasive Edge Computing. *IEEE INFOCOM 2024 - IEEE Conference on Computer Communications* (pp. 2149-2158). IEEE.  
<https://doi.org/10.1109/infocom52122.2024.10621128>Peer Review - Refereed

**Trajkova, Milka**

**Conference Proceedings**

*Conference Proceeding*

Trajkova, M., Long, D., Deshpande, M., Knowlton, A., Magerko, B. (2024). Exploring Collaborative Movement Improvisation Towards the Design of LuminAI—a Co-Creative AI Dance Partner. *Proceedings of the CHI Conference on Human Factors in Computing Systems* (pp. 1-22). ACM. <https://doi.org/10.1145/3613904.3642677>Peer Review - Refereed

**Troiano, Giovanni M.**

**Non-Refereed Journal Articles**

*Journal Article, Academic Journal*

Alsebayel, G., Troiano, G. M., Hartevelde, C. (2024). "I Believe the Baby in the Picture Is My Baby": User Experiences with Commercial Pregnancy Apps. *Proceedings of the ACM on Human-Computer Interaction*, 8(MHCI), 1--28, .

*Journal Article, Academic Journal*

Puttick, G., Cassidy, M., Tucker-Raymond, E., Troiano, G. M., Hartevelde, C. (2024). "So, We Kind of Started from Scratch, No Pun Intended": What Can Students Learn from Designing Games? *Journal of Research in Science Teaching*, 61(4), 772--808, .

**Conference Proceedings**

*Conference Proceeding*

Maram, S. S., Amato, A., Troiano, G. M., Sutherland, S., Matuk, C., Melcer, E., Carstensdottir, E., Hartevelde, C., Seif El-Nasr, M. (2024). An Instructor's Lens into the Role of AI in Teaching Experimental Research via Gamification. *Proceedings of the ACM Symposium on Applied Computing* (pp. 98--100).

*Conference Proceeding*

Alsebayel, G., Nasri, M., Myers, C., Troiano, G. M., Hatamimajoumerd, E., Ostadabbas, S., Allison, K., Hartevelde, C. (2024). Articumotion: Towards Assessing Motor Speech Disorders via Gamification. *Proceedings of the ACM Interaction Design and Children Conference* (pp. 232--247).

*Conference Proceeding*

Hartevelde, C., Javvaji, N., Mohaddesi, O., Kleinman, E., Daniels, K., Jackson, D., Troiano, G. M. (2024). RePresent: Enabling Access to Justice for Pro Se Litigants via Co-Authored Serious Games. *Proceedings of the ACM Designing Interactive Systems Conference* (pp. 3225--3242).

*Conference Proceeding*

Yang, D., Kleinman, E., Troiano, G. M., Tochilnikova, E., Hartevelde, C. (2024). Snake Story: Exploring Game Mechanics for Mixed-Initiative Co-Creative Storytelling Games. *Proceedings of the Foundations of Digital Games Conference* (pp. 1--11).

*Conference Proceeding*

Prpa, M., Troiano, G. M., Wood, M., Coady, Y. (2024). Challenges and Opportunities of LLM-Based Synthetic Personae and Data in HCI. *Extended Abstracts of the CHI Conference on Human Factors in Computing Systems* (pp. 1-5). ACM. <https://doi.org/10.1145/3613905.3636293>Peer Review - Refereed

*Conference Proceeding*

Miner, N., Abdollahi, A., Myers, C., Kosa, M., Ghaednia, H., Schwab, J. H., Hartevelde, C., Troiano, G. M. (2024). Stairway to Heaven: A Gamified VR Journey for Breath Awareness. *Proceedings of the CHI Conference on Human Factors in Computing Systems* (pp. 1-19). ACM. <https://doi.org/10.1145/3613904.3641986>Peer Review - Refereed

## **Wang, Yishi**

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

*Journal Article, Academic Journal*

Doddato, F. R., Forde, J., Wang, Y., Puente, A. E. (2024). An alternative approach to TOMM cutoff scores using a large sample of military personnel. *Applied Neuropsychology: Adult*, 31(6), 1261-1269, ., <https://doi.org/10.1080/23279095.2022.2119391>Peer Review - Refereed

*Journal Article, Academic Journal*

Pricope, N. G., Halls, J. N., Dalton, E. G., Minei, A., Chen, C., Wang, Y. (2024). Precision Mapping of Coastal Wetlands: An Integrated Remote Sensing Approach Using Unoccupied Aerial Systems Light Detection and Ranging and Multispectral Data. *Journal of Remote Sensing*, 4, ., <https://doi.org/10.34133/remotesensing.0169>Peer Review - Refereed

## **Xiang, Anhao**

### ***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