

Intellectual Contributions

Kennesaw State University
January 1, 2022 - December 31, 2022

Department of Computer Science

Aygun, Ramazan (Associate Professor)

Refereed Journal Articles

Journal Article, Academic Journal (Published)

Rathgamage Don, D. P., Boardman, J., Sayenju, S., Aygun, R., Zhang, Y., Franks, W., Johnston, S., Lee, G., Sullivan, D., Modgil, G. (2023). Automation of Explainability Auditing for Image Recognition. *International Journal of Multimedia Engineering and Management*, 14(1), 17, ., <https://www.igi-global.com/gateway/article/332882>Editorial Review

Journal Article, Academic Journal (Accepted)

Veksler, M., Aygun, R., Akkaya, K., Iyengar, S. (in press). CNN Ensemble for Video Source Camera Forensics. *To appear in IEEE Multimedia*, .Peer Review - Refereed

Non-Refereed Journal Articles

Journal Article, Academic Journal (Published)

Rogers, J., Aygun, R., Etzkorn, L. (2023). Confidence-Based Cheat Detection Through Constrained Order Inference of Temporal Sequences. *International Journal of Semantic Computing*, 17(2), 223-247, .

Journal Article, Academic Journal (Published)

Rogers, J., Aygun, R., Etzkorn, L. (2023). TemporalDedup: Domain-Independent Deduplication of Redundant and Errant Temporal Data. *International Journal of Semantic Computing*, 17(2), 309-343, .

Journal Article, Academic Journal (Published)

Sayenju, S., Aygun, R., Boardman, J., Rathgamage Don, D. P., Zhang, Y., Franks, W., Johnston, S., Lee, G., Sullivan, D., Modgil, G. (2022). Quantification and Mitigation of Directional Pairwise Class Confusion Bias in a Chatbot Intent Classification Model. *International Journal of Semantic Computing*, .

Conference Proceedings

Conference Proceeding (Published)

Rogers, J., Aygun, R., Etzkorn, L. (2023). *Detection of Semantic Duplicates in Temporal Domains Using Directed Acyclic Graphs*. 2023 IEEE SoutheastCon.Peer Review - Refereed

Conference Proceeding (Published)

Don, D. R., Aygun, R., Karakaya, M. (2023). *A Multistage Framework for Detection of Very Small Objects*. 2023 The 6th International Conference on Machine Vision and Applications (ICMVA 2023).Peer Review - Refereed

Conference Proceeding (Published)

Boyapati, M., Aygun, R. (2023). *Phishing Web Page Detection Using Web Scraping*. 2023 IEEE SoutheastCon.Peer Review - Refereed

Conference Proceeding (Published)

Boyapati, M., Aygun, R. (2023). *Default Prediction on Commercial Credit Big Data Using Graph-based Variable Clustering*. 2023 IEEE International Conference on Semantic Computing (short paper).Peer Review - Refereed

Conference Proceeding (Published)

Karakaya, M., Aygun, R. (2023). *Retinal Biomarkers for Detecting Diabetic Retinopathy Using Smartphone-Based Deep Learning Frameworks*. IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2023).Peer Review - Refereed

Conference Proceeding (Published)

Rogers, J., Aygun, R., Etkorn, L. (2022). *Cheat Detection Through Temporal Inference of Constrained Orders for Subsequences*. IEEE International Conference on Artificial Intelligence and Knowledge Engineering 2022.

Conference Proceeding (Published)

Rathgamage Don, D. P., Boardman, J., Sayenju, S., Aygun, R., Zhang, Y., Franks, W., Johnston, S., Lee, G., Sullivan, D., Modgil, G. (2022). *Explainability Audit: An Automated Evaluation of Local Explainability in Image Recognition*. 2022 IEEE 23rd International Conference on Information Reuse and Integration for Data Science.

Conference Proceeding (Published)

Bhargava, N., Kamgaing, Y. J. K., Aygun, R. (2022). *ImpartialGAN: Fair and Unbiased Classification*. 2022 IEEE 23rd International Conference on Information Reuse and Integration for Data Science. 2022 IEEE 23rd International Conference on Information Reuse and Integration for Data Science.

Conference Proceeding (Published)

Sayenju, S., Aygun, R., Franks, W., Johnston, S., Lee, G., Modgil, G. (2022). *Stereotype and Categorical Bias Evaluation via Differential Cosine Bias Measure*. 2022 IEEE International Conference on Big Data Workshop - 1st International Workshop on Responsible AI and Data Ethics (RAIDE 2022) RAIDE 2022.Peer Review - Refereed

Conference Proceeding (Published)

Fagbemi, A., Aygun, R., Karakaya, M., Sahin, N. (2022). *Video Alignment of Lecture Notes Missing Corners*. The Eleventh IEEE International Workshop on Data Integration and Mining (DIM-2022) in conjunction with IEEE 23rd International Conference on Information Reuse and Integration for Data Science.

Conference Proceeding (Published)

Veksler, M., Aygun, R., Akkaya, K., Iyengar, S. (2022). *Video Origin Camera Identification using Ensemble CNNs of Positional Patches*. 2022 IEEE Multimedia Information Processing and Retrieval.

Conference Proceeding (Published)

Sayenju, S., Aygun, R., Boardman, J., Rathgamage Don, D. P., Zhang, Y., Franks, W., Johnston, S., Lee, G., Sullivan, D., Modgil, G. (2022). *Directional Pairwise Class Confusion Bias and Its Mitigation*. 16th IEEE International Conference on SEMANTIC COMPUTING.

Conference Proceeding (Published)

Rogers, J., Aygun, R., Etkorn, L. (Published). *Identifying Variability in U.S. COVID-19 Response Through Temporal Partial Ordering Detection*. IEEE BIBM 2022 - 3rd International Workshop on High Performance Computing Methods and Interdisciplinary Applications for Fighting the COVID-19 Pandemic (HPC4COVID-19).
<https://ieeexplore.ieee.org/document/9995659>

Conference Proceeding (Published)

Karakaya, M., Aygun, R., Sallam, A. (2022). *Collaborative Deep Learning for Privacy Preserving Diabetic Retinopathy Detection*. IEEE International Engineering in Medicine and Biology Conference. Peer Review - Refereed

Conference Proceeding (Published)

William, F., Aygun, R., Zhu, F. (2022). *EEG-based Audiovisual Face-name Association Classifications using Transfer Learning*. 2022 ACM Southeast Conference.

Conference Proceeding (Published)

William, F., Aygun, R. (2022). *ConvoForest Classification of Familiar and New-faces using EEG*. 10th IEEE International Workshop on Semantic Computing for Social Networks and Organization Sciences (SCSN Workshop) in 16th IEEE Int. Conf. on Semantic Computing.

Bobbie, Patrick O. (Professor)

Conference Proceedings

Conference Proceeding (Published)

Holmes, T., McLarty, C., Shi, Y., Bobbie, P., Suo, K. (2022). *Energy Efficiency on Edge Computing: Challenges and Vision*. IEEE International Performance, Computing, and Communications Conference (IPCCC). <https://www.ipccc.org/>

Cetinkaya, Coskun (Professor)

Conference Proceedings

Conference Proceeding (Published)

Zhuang, Y., Liu, H., Song, E., Cetinkaya, C., Hung, C.-C. (2023). *An Unpaired Cross-modality Segmentation Framework Using Data Augmentation and Hybrid Convolutional Networks for Segmenting Vestibular Schwannoma and Cochlea*. Vancouver: International Conference on Medical Image Computing and Computer Assisted Intervention. Peer Review - Refereed

Choi, Arthur Y. (Assistant Professor)

Refereed Journal Articles

Journal Article, Academic Journal (Published)

Fernandes, G., Choi, A., Darwiche, A., Alshurafa, N. (2023). Design and Usability Study of PRIMO: An Explainable Artificial Intelligence Software Tool for Weight Management Experts. *Journal of Medical Internet Research*, ., Impact Factor: 7.08, <https://www.jmir.org> Peer Review - Refereed

Other Intellectual Contributions

Workshop (Accepted)

Fernandes, G., Choi, A., Jacobs, M., Darwiche, A., Alshurafa, N. (in press). *Do Exact Explanations Make a Difference? A Case Study Among Weight Management Experts*. Workshop on Trust and Reliance in AI-Human Teams (TRAIT). <https://chi-trait.github.io/> Peer Review - Refereed

Clincy, Victor A. (Professor)

Conference Proceedings

Conference Proceeding (Published)

Hossain Faruk, M. J., Shahriar, H. M., Qian, K., Lo, D. C.-T., Whitman, M., Cuzzocrea, A., Wu, F., Clincy, V. A. (2022). *Authentic Learning of Machine Learning in Cybersecurity with Portable Hands-on Labware: Neural Network Algorithms for Network Denial of Service (DOS) Detection* (pp. 6). IEEE: IEEE Big Data.

Conference Proceeding (Published)

Danda, J. M. R., K, M., Shahriar, H. M., Clincy, V. A., Sakib, N. (2022). *Comprehensive Feature Extraction for Cross-Project Software Defect Prediction*. 2022 IEEE 46th Annual Computers, Software, and Applications Conference (COMPSAC).Peer Review - Refereed

Haddad, Hisham M. (Professor)

Conference Proceedings

Conference Proceeding (Published)

Danda, J. M. R., Priyansh, K., Shahriar, H., Haddad, H., Cuzzocrea, A., Sakib, N. (2022). *Predicting Mortality Rate based on Comprehensive Features of Intensive Care Unit Patients*. 2022 IEEE 46th Annual Computers, Software, and Applications Conference (COMPSAC).Peer Review - Refereed

He, Selena S. (Associate Professor)

Refereed Journal Articles

Journal Article, Academic Journal (Published)

Qu, F., Tian, S., Li, L., He, S., Han, M. (2022). *A State-of-Art Survey: Digitalization of Money to Cryptocurrency*. *62nd IACIS Annual Conference/ Issues in Information Systems (IIS)*, .Peer Review - Refereed

Journal Article, Professional Journal (Published)

Sun, F., He, S. (2022). *A Fully Authenticated Diffie-Hellman Protocol and Its Application in WSNs*. *Transactions on Information Forensics & Security*, .Peer Review - Refereed

Journal Article, Professional Journal (Published)

Sun, F., He, S. (2022). *A Fully Authenticated Diffie-Hellman Protocol and Its Application in WSNs*. *IEEE Transactions on Information Forensics and Security*, *17*, 1986 - 1999, ., Impact Factor: 8.28, <https://ieeexplore.ieee.org/document/9770823>Peer Review - Refereed

Conference Proceedings

Conference Proceeding (Published)

Suo, K., Nguyen, T., Shi, Y., He, S., Hung, C.-C. (2022). *Keep Clear of the Edges: An Empirical Study of Artificial Intelligence Workload Performance and Resource Footprint on Edge Devices*. IEEE International Performance, Computing, and Communications Conference (IPCCC). <https://www.ipccc.org/>Peer Review - Refereed

Conference Proceeding (Published)

Le, L., Nguyen, T. N., Suo, K., He, S. (Published). *5G Network Slicing and Drone-Assisted Applications: A Deep Reinforcement Learning Approach*. Mobicom/Drone. Peer Review - Refereed

Conference Proceeding (Accepted)

Damaris Waymond, He, S. (2022). *Replicating Touch with MQ Telemetry Transport (MQTT) And Circuit Python: a case study of Internet-of-Things (IoT) Application*. National Conference on Undergraduate Research (NCUR). Peer Review - Refereed

Hung, Chih-Cheng (Professor)

Refereed Journal Articles

Journal Article, Academic Journal (Published)

Fang, M., Peng, S., Liang, Y., Hung, C.-C., Liu, S. (2023). A Multimodal Fusion Model with Multi-level Attention Mechanism for Depression Detection. *Biomedical Signal Processing and Control by Elsevier*, 82, ., <https://www.sciencedirect.com/science/article/abs/pii/S1746809422010151> Peer Review - Refereed

Journal Article, Academic Journal (Published)

Fang, M., Peng, S., Zhao, Y., Yuan, H., Hung, C.-C., Liu, S. (2022). 3 s-STNet: three-stream spatial-temporal network with appearance and skeleton information learning for action recognition. *Neural Computing and Applications*, 35, . Peer Review - Refereed

Journal Article, Academic Journal (Published)

Liu, H., Zhuang, Y., Song, E., Xu, X., Hung, C.-C. (2022). A Bidirectional Multilayer Contrastive Adaptation Network Based on Unsupervised Domain Adaptation for Unpaired Cross-Modality Medical Image Segmentation. *Computers in Biology and Medicine*, . Peer Review - Refereed

Journal Article, Academic Journal (Published)

Liu, S., Ren, Y., Li, L., Sun, X., Song, Y., Hung, C.-C. (2022). Micro-expression recognition based on SqueezeNet and C3D. *Multimedia Systems by Springer*, 28, ., <https://link.springer.com/article/10.1007/s00530-022-00949-z> Peer Review - Refereed

Journal Article, Academic Journal (Published)

Gardner, N., Khan, M. A. A. H., Hung, C.-C. (2022). Definition modeling: literature review and dataset analysis. *Applied Computing and Intelligence*, 2(1), 83-98, ., <https://www.aimspress.com/article/doi/10.3934/aci.2022005> Peer Review - Refereed

Journal Article, Academic Journal (Published)

Zhuang, Y., Liu, H., Song, E., Ma, G., Xu, X., Hung, C.-C. (2022). APRNet: A 3D Anisotropic Pyramidal Reversible Network with Multi-modal Cross-Dimension Attention for Brain Tissue Segmentation in MR Images. *IEEE Journal of Biomedical and Health Informatics*, 26(2), . Peer Review - Refereed

Non-Refereed Journal Articles

Journal Article, Academic Journal (Published)

Zhuang, Y., Liu, H., Song, E., Hung, C.-C. (2023). A 3D Cross-Modality Feature Interaction Network with Volumetric Feature Alignment for Brain Tumor and Tissue Segmentation. *IEEE Journal of Biomedical and Health Informatics*, 27(1), .

Journal Article, Academic Journal (Published)

Noah Gardner, N., Hellenbrand, J. P., Phan, A., Zhu, H., Long, Z., Wang, M., Penick, C., Hung, C.-C. (2022). Investigation of ant cuticle dataset using image texture analysis methods. *Applied Computing and Intelligence*, 2, 133 -- 151, .

Conference Proceedings

Conference Proceeding (Published)

Zhuang, Y., Liu, H., Song, E., Cetinkaya, C., Hung, C.-C. (2023). *An Unpaired Cross-modality Segmentation Framework Using Data Augmentation and Hybrid Convolutional Networks for Segmenting Vestibular Schwannoma and Cochlea*. Vancour: International Conference on Medical Image Computing and Computer Assisted Intervention. Peer Review - Refereed

Conference Proceeding (Published)

Norkham, A., Chalupa, M., Gardner, N., Khan, M. A. A. H., Zhang, X., Hung, C.-C. (2022). *Reinforcement Learning Agent Path Planning with Expert Demonstration*. IEEE 46th Annual Computers, Software, and Applications Conference (COMPSAC) 2022. <https://ieeexplore.ieee.org/document/9842674> Peer Review - Refereed

Conference Proceeding (Published)

Suo, K., Nguyen, T., Shi, Y., He, S., Hung, C.-C. (2022). *Keep Clear of the Edges: An Empirical Study of Artificial Intelligence Workload Performance and Resource Footprint on Edge Devices*. IEEE International Performance, Computing, and Communications Conference (IPCCC). <https://www.ipccc.org/> Peer Review - Refereed

Islam, Kazi Aminul (Assistant Professor)

Non-Refereed Journal Articles

Journal Article, Academic Journal (Published)

Ayhan, B., Kwan, C., Islam, K. A., Stavola, A., Hendry, S., Li, J. (2022). High-Performance Remote Radioactive Material Identification of Mixtures. *IEEE Transactions on Nuclear Science*, .

Journal Article, Academic Journal (Published)

Lebrasse, M. C., Schaeffer, B. A., Coffey, M., Whitman, P., Zimmerman, R., Hill, V., Islam, K. A., Li, J., Osburn, C. (2022). Temporal stability of seagrass extent, leaf area, and carbon storage in St. Joseph Bay, Florida: a semi-automated remote sensing analysis. *Estuaries and Coasts*, .

Karakaya, Mahmut (Assistant Professor)

Conference Proceedings

Conference Proceeding (Published)

Don, D. R., Aygun, R., Karakaya, M. (2023). *A Multistage Framework for Detection of Very Small Objects*. 2023 The 6th International Conference on Machine Vision and Applications (ICMVA 2023). Peer Review - Refereed

Conference Proceeding (Published)

Karakaya, M., Aygun, R. (2023). *Retinal Biomarkers for Detecting Diabetic Retinopathy Using Smartphone-Based Deep Learning Frameworks*. IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP 2023). Peer Review - Refereed

Conference Proceeding (Published)

Philips, S., Karakaya, M. (2022). *Effects of Distance and Gaze Angle on CNN-Based Standoff Iris Recognition*. IEEE Southeast Conference.

Conference Proceeding (Published)

Fagbemi, A., Aygun, R., Karakaya, M., Sahin, N. (2022). *Video Alignment of Lecture Notes Missing Corners*. The Eleventh IEEE International Workshop on Data Integration and Mining (DIM-2022) in conjunction with IEEE 23rd International Conference on Information Reuse and Integration for Data Science.

Conference Proceeding (Published)

Karakaya, M., Aygun, R., Sallam, A. (2022). *Collaborative Deep Learning for Privacy Preserving Diabetic Retinopathy Detection*. IEEE International Engineering in Medicine and Biology Conference. Peer Review - Refereed

Conference Proceeding (Published)

Ghandour, I., Karakaya, M. (2022). *Binary vs. Multi-Class Segmentation for Off-angle Iris Images using Deep Learning Frameworks*. Orlando, FL: SPIE Defence and Commercial Sensing.

Conference Proceeding (Published)

Palta, H., Karakaya, M. (2022). *Image Quality Assessment of Smartphone-Based Retinal Imaging Systems*. SPIE Defence and Commercial Sensing.

Conference Proceeding (Published)

Kota, J., Karakaya, M. (2022). *Improving Off-Angle Iris Recognition Using Iris Quadrant Masking*. Mobile, AL: IEEE Southeast Conference.

Conference Proceeding (Published)

Nasajpour, M., Karakaya, M., Pouriye, S., Meimandi Parizi, R. (2022). *Federated Transfer Learning for Diabetic Retinopathy Detection Using CNN Architectures*. IEEE Southeast Conference. Peer Review - Refereed

Conference Proceeding (Published)

Diab, K., Karakaya, M. (2022). *CNN-based Gaze Estimation for Off-angle Iris Images*. IEEE Southeast Conference.

Conference Proceeding (Published)

Jalilian, E., Wimmer, G., Karakaya, M., Uhl, A. (2022). *Deep Learning Based Off-Angle Iris Recognition*. IEEE International Conference on Acoustics, Speech, & Signal Processing (ICASSP). Peer Review – Refereed

Khan, Md Abdullah Al Hafiz (Assistant Professor)

Refereed Journal Articles

Journal Article, Academic Journal (Published)

Gardner, N., Khan, M. A. A. H., Hung, C.-C. (2022). Definition modeling: literature review and dataset analysis. *Applied Computing and Intelligence*, 2(1), 83-98, ., <https://www.aimspress.com/article/doi/10.3934/aci.2022005> Peer Review - Refereed

Conference Proceedings

Conference Proceeding (Published)

Attota, D., Tadikonda, D. N., Pethe, S., Khan, M. A. A. H. (2022). In IEEE (Ed.), *An Ensembled Method For Diabetic Retinopathy Classification using Transfer Learning..* 2022 IEEE 46th Annual Computers, Software, and Applications Conference (COMPSAC).Peer Review - Refereed

Conference Proceeding (Published)

Dhulipalla, V. K., Khan, M. A. A. H. (2022). In IEEE (Ed.), *Mental workload classification from non-invasive fNIRs signals through deep convolutional neural network..* 2022 IEEE 46th Annual Computers, Software, and Applications Conference (COMPSAC).
<https://ieeexplore.ieee.org/document/9842501>Peer Review - Refereed

Conference Proceeding (Published)

Khan, M. A. A. H., Shahriar, H. (2022). *MRehab: Mutlimodal data acquisition and modeling framework for assessing stroke and cardiac rehabilitation exercises.* 2022 IEEE 46th Annual Computers, Software, and Applications Conference (COMPSAC).
<https://ieeexplore.ieee.org/document/9842715>Peer Review - Refereed

Conference Proceeding (Published)

Masum, M., Nazim, M., Hossain Faruk, M. J., Shahriar, H. M., Valero, M. A., Khan, M. A. A. H., G., Berzanjeh, S., Saglamyurek, E., Rahman, Ahamed, S. (2022). *Quantum Machine Learning for Software Supply Chain Attacks: How Far Can We Go?* (pp. 530-538). IEEE Computers, Software, and Applications Conference (2022).
<https://arxiv.org/abs/2204.02784>Peer Review - Refereed

Conference Proceeding (Published)

Norkham, A., Chalupa, M., Gardner, N., Khan, M. A. A. H., Zhang, X., Hung, C.-C. (2022). *Reinforcement Learning Agent Path Planning with Expert Demonstration.* IEEE 46th Annual Computers, Software, and Applications Conference (COMPSAC) 2022.
<https://ieeexplore.ieee.org/document/9842674>Peer Review - Refereed

Conference Proceeding (Published)

Nazim, M., Hossain Faruk, M. J., Shahriar, H. M., Khan, M. A. A. H., Masum, M., Sakib, N., Wu, F. (2022). *Systematic Analysis of Deep Learning Model for Vulnerable Code Detection* (pp. 1768-1773). IEEE 46th Annual Computers, Software, and Applications Conference (COMPSAC) 2022.Peer Review - Refereed

Conference Proceeding (Published)

Khan, M. A. A. H., Roy, N. (Published). *Cross-Domain Unseen Activity Recognition using Transfer Learning.* IEEE 46th Annual Computers, Software, and Applications Conference (COMPSAC) 2022. <https://ieeexplore.ieee.org/document/9842497>Peer Review - Refereed

Other Intellectual Contributions

Published Abstract (Published)

Wishart, B., Azmee, A. A., Khan, M. A. A. H. (2023). *Identifying Mental Health Issues from Social Media using Machine Learning.* National Conference for Undergraduate Research (NCUR 2023).Peer Review - Refereed

Published Abstract (Published)

Trujillo, C. L., Azmee, A. A., Khan, M. A. A. H., Murikipudi, M., Dargan, C. (2022). In Kennesaw State University DigitalCommons (Ed.), *Brain-to-text communication through a non-invasive BCI*. Student Symposium -- Kennesaw State University DigitalCommons. [https://digitalcommons.kennesaw.edu/undergradsymposiumksu/Fall2022/presentations/136/Editorial Review](https://digitalcommons.kennesaw.edu/undergradsymposiumksu/Fall2022/presentations/136/Editorial%20Review)

Published Abstract (Published)

Gopi, S., Khan, M. A. A. H. (2022). In DigitalCommons@Kennesaw State University (Ed.), *GR-148: Effect of Vedic practices on Heart Coherence*. C-Day Spring 2022 - DigitalCommons@Kennesaw State University. Peer Review - Refereed

Published Abstract (Published)

Murikipudi, M., Azmee, A. A., Khan, M. A. A. H. (2022). In DigitalCommons@Kennesaw State University (Ed.), *GR-288: Comparative Performance Analysis of Hybrid Quantum Machine Learning Algorithm to Assess Post Stroke Rehabilitation Exercises*. C-Day Fall 2022 -- DigitalCommons@Kennesaw State University. Peer Review - Refereed

Published Abstract (Published)

McGregor, D., Trujillo, C. L., Khan, M. A. A. H. (2022). In DigitalCommons@Kennesaw State University (Ed.), *Machine Learning-Enabled Dyslexia Detection from Dyctective Gaming Participants Datasets*. Student Symposium -- DigitalCommons@Kennesaw State University. [https://digitalcommons.kennesaw.edu/undergradsymposiumksu/spring2022/presentations/284/Editorial Review](https://digitalcommons.kennesaw.edu/undergradsymposiumksu/spring2022/presentations/284/Editorial%20Review)

Published Abstract (Published)

Azmee, A. A., Murikipudi, M., Lucena, C., Gueye, I., Wishart, B., Pacheco, Y., Khan, M. A. A. H. (2022). In DigitalCommons@Kennesaw State University (Ed.), *Motor Imagery Detection Toward Non-Invasive Brainwave Based Typing*. Student Symposium -- DigitalCommons@Kennesaw State University. [https://digitalcommons.kennesaw.edu/undergradsymposiumksu/Fall2022/presentations/163/Editorial Review](https://digitalcommons.kennesaw.edu/undergradsymposiumksu/Fall2022/presentations/163/Editorial%20Review)

Published Abstract (Published)

Murikipudi, M., Hillhouse, K., Lucena, C., Dargan, C., Gueye, I., Walker, J., Khan, M. A. A. H. (2022). In Kennesaw State University DigitalCommons (Ed.), *Post-stroke patients' rehabilitation exercise assessment from Vicon-based skeletal angle displacement using Convolutional Neural Network*. Student Symposium -- Kennesaw State University DigitalCommons. [https://digitalcommons.kennesaw.edu/undergradsymposiumksu/Fall2022/presentations/177/Editorial Review](https://digitalcommons.kennesaw.edu/undergradsymposiumksu/Fall2022/presentations/177/Editorial%20Review)

Published Abstract (Published)

Dhulipalla, V. K., Khan, M. A. A. H. (2022). *GC 283: CHAT BOT FOR MENTAL HEALTH*. C-Day Fall 2022 -- DigitalCommons@Kennesaw State University. Peer Review - Refereed

Published Abstract (Published)

Mohammed, M. N., Atmakuri, M. R., Kamgaing, Y. J. K., Gandi, S. C., Khan, M. A. A. H. (2022). *GR-183 - Deep Learning Search Engine*. C-Day DigitalCommons@Kennesaw State University. [https://digitalcommons.kennesaw.edu/cday/Spring_2022/Graduate-Research/8/Peer Review - Refereed](https://digitalcommons.kennesaw.edu/cday/Spring_2022/Graduate-Research/8/Peer%20Review)

Published Abstract (Published)

Azme, A. A., Khan, M. A. A. H. (2022). In DigitalCommons@Kennesaw State University (Ed.), *GR-288 Comparative performance analysis of hybrid quantum machine learning algorithm to assess Post stroke rehabilitation exercises*. C-Day -- DigitalCommons@Kennesaw State University. https://digitalcommons.kennesaw.edu/cday/Fall_2022/Graduate_Research/10/Peer_Review_-_Refereed

Published Abstract (Published)

Khan, M. A. A. H., McGregor, D. (2022). *The Effect of Devices Utilizing Machine Learning on Patients with Dyslexia to Mitigate Their Specific Neurological Issues*. National Conferences on Undergraduate Research (NCUR 2022).Peer Review - Refereed

Published Abstract (Published)

Trujillo, C. L., McGregor, D., Khan, M. A. A. H. (2022). *Brain-to-text communication through an invasive BC*. Digital commons@Kennesaw State University. https://digitalcommons.kennesaw.edu/undergradsymposiumksu/spring2022/presentations/255/Editorial_Review

Published Abstract (Published)

Khan, M. A. A. H., woods, Q. L., Magdaleno, A. (2022). *Classification of Political News with NLP*. National Conferences on Undergraduate Research (2022).Peer Review - Refereed

Published Abstract (Published)

Lucena, C., Khan, M. A. A. H. (Published). *Brain-to-text communication through a non-invasive BCI*. National Conferences on Undergraduate Research.Peer Review - Refereed

Lee, Ahyoung (Assistant Professor)

Refereed Journal Articles

Journal Article, Professional Journal (Published)

Lee, A., Mhatre, J., Kumar Das, R., Hong, M. (Published). Hybrid Mobile Cloud Computing Architecture with Load Balancing for Healthcare Systems. *CMC-Computers, Materials & Continua*, ., <https://doi.org/10.32604/cmc.2023.029340>Peer Review - Refereed

Journal Article, Professional Journal (Published)

Kim, S., Rim, B., Choi, S., Lee, A., Min, S. D., Hong, M. (2022). Deep Learning in Multi-Class Lung Diseases' Classification on Chest X-ray Images. *Diagnostics (MDPI)*, ., <https://www.mdpi.com/2075-4418/12/4/915>Peer Review - Refereed

Journal Article, Professional Journal (Published)

Tam, P., Math, S., Lee, A., Kim, S. (2022). Multi-Agent Deep Q-Networks for Efficient Edge Federated Learning Communications in Software-Defined IoT. *Journal of Computers, Materials & Continua (CMC)*, 71(2), 3319-3335, ., <https://www.techscience.com/cmc/v71n2/45862>Peer Review - Refereed

Conference Proceedings

Conference Proceeding (Published)

Mhatre, J., Lee, A. (2023). *MP-DDPG: Optimal Latency-Energy Dynamic Offloading Scheme in Collaborative Cloud Networks*. The 38th ACM/SIGAPP Symposium On Applied Computing (ACM SAC 2023). <https://www.sigapp.org/sac/sac2023/index.html>Peer Review - Refereed

Conference Proceeding (Published)

Le, L., Nguyen, T., Lee, A., Dumba, B. (2022). Entanglement Routing For Quantum Networks: A Deep Reinforcement Learning Approach. *ICC 2022 - IEEE International Conference on Communications* (pp. 395-400).Peer Review - Refereed

Conference Proceeding (Published)

Mhatre, J., Lee, A. (2022). *Dynamic Reinforcement Learning based Scheduling for Energy-Efficient Edge-Enabled LoRaWAN*. IEEE IPCCC 2022. 10.1109/IPCCC55026.2022.9894340Peer Review - Refereed

Conference Proceeding (Published)

Traore, S., Valero, M. A., Shahriar, H. M., Zhao, L., Ahamed, S. I., Lee, A. (2022). *Enabling Cyberanalytics using an IoT Clusters and Containers*. COMPSAC 2022.Peer Review - Refereed

Conference Proceeding (Published)

Le, L., Nguyen, T., Lee, A., Dumba, B. (2022). *Entanglement Routing For Quantum Networks: A Deep Reinforcement Learning Approach*. IEEE International Conference on Communications (ICC 2022). <https://ieeexplore.ieee.org/abstract/document/9839240>Peer Review - Refereed

Conference Proceeding (Published)

Padidem, P., Lee, A. (2022). *Studying Offloading Optimization for Energy–Latency Tradeoff With Collaborative Edge Computing*. IMCOM 2022. <https://ieeexplore.ieee.org/document/9721745>Peer Review - Refereed

Lee, Sanghoon

Refereed Journal Articles

Journal Article, Academic Journal (Published)

Lee, S., Banzon, J., Le, K., Kim, D. H. (2022). Estimating animal pose using deep learning a trained deep learning model outperforms morphological analysis. *EAI Endorsed Transactions on Bioengineering and Bioinformatics*, 22(4), e5, .Peer Review - Refereed

Other Intellectual Contributions

Published Abstract (Published)

Lee, S., Pressman, I., Xu, H., Hwang, T. H. (2022). *Spatial image analysis on stroma composition linking to patient prognosis, chemotherapy response, and immunotherapy resistance* (12th ed., vol. 82, pp. 5044). Proceedings of the American Association for Cancer Research Annual Meeting 2022.Peer Review - Refereed

Published Abstract (Published)

Choi, W., Nourzadeh, H., Lee, S., Chen, Y., Ghassemi, N., Vinogradskiy, Y., Dicker, A. (2022). *A Framework for Reproducible and Scalable Radiomics Pipelines for Radiation Oncology* (6th ed., vol. 49, pp. E190-E191). MEDICAL PHYSICS.Peer Review – Refereed

Lo, Dan C. T. (Professor)

Conference Proceedings

Conference Proceeding (Published)

Shi, Y., Shahriar, H. M., Lo, D. C.-T., Qian, K., Chi, H. (2023). *Collaborative and Active Learning with Portable Online Hands-on Labware for Blockchain Development* (978-1-4503-9433-8 ed.). 54th ACM Technical Symposium on Computer Science Education. Peer Review - Refereed

Conference Proceeding (Published)

Hossain Faruk, M. J., Shahriar, H. M., Qian, K., Lo, D. C.-T., Whitman, M., Cuzzocrea, A., Wu, F., Clincy, V. A. (2022). *Authentic Learning of Machine Learning in Cybersecurity with Portable Hands-on Labware: Neural Network Algorithms for Network Denial of Service (DOS) Detection* (pp. 6). IEEE: IEEE Big Data.

Conference Proceeding (Published)

Shi, Y., Shahriar, H. M., Lo, D. C.-T., Chi, H. (2022). *Enhancing Blockchain Technology Education with Innovative Active Learning*. Online: IEEE ICALTER 2022 : The 2nd International Conference on Advanced Learning Technologies on Education & Research. <https://ieeexplore.ieee.org/document/9623102>

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Ga, C., Zhang, Y., Lo, D. C.-T., Shi, Y., Huang, J. (2022). *Improving the Machine Learning Prediction Accuracy with Clustering Discretization* (pp. 0513-0517). 2022 IEEE 12th Annual Computing and Communication Workshop and Conference (CCWC). Peer Review - Refereed

Conference Proceeding (Published)

Lo, D. C.-T., Shi, Y., Qian, K., Shahriar, H., Ng, C. (2022). *Broaden Multidisciplinary Data Science Research by an Innovative Cyberinfrastructure Platform* (pp. 428-429). 2022 IEEE 46th Annual Computers, Software, and Applications Conference (COMPSAC). Peer Review - Refereed

Conference Proceeding (Published)

Ga, C., Shahriar, H. M., Lo, D. C.-T., Shi, Y., Qian, K. (2022). *Improving the Prediction Accuracy with Feature Selection for Ransomware Detection* (pp. 424-425). 2022 IEEE 46th Annual Computers, Software, and Applications Conference (COMPSAC). Peer Review - Refereed

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Masum, M., Hossain Faruk, M. J., Shahriar, H. M., Qian, K., Lo, D. C.-T., Adnan, M. I. (2022). *Ransomware Classification and Detection With Machine Learning Algorithms* (pp. 6). IEEE: 2022 IEEE 12th Annual Computing and Communication Workshop and Conference (CCWC). <https://iee-ccwc.org/call-for-papers/> Peer Review - Refereed

Conference Proceeding (Accepted)

Lo, D. C.-T., Lawler, B. (2022). *Enhance Capacity to Foster Secondary Computer Science Teachers in Multiple Pathways*. ACM SIGCSE Technical Symposium 2022. Peer Review - Refereed

Conference Proceeding (Accepted)

Lo, D. C.-T., Shahriar, H. M., Qian, K., Whitman, M., Wu, F., Thomas, C. (2022). *Authentic Learning of Machine Learning in Cybersecurity with Portable Hands-on Labware Submission* (pp. 2). The 53rd ACM Technical Symposium on Computing Science Education. <https://sigcse2022.sigcse.org/> Peer Review - Refereed

Conference Proceeding (Accepted)

Lawler, B. R., Lo, D. (2022). A study on students' views toward K-12 computer science teaching career. Proceedings of the 53rd ACM Technical Symposium on Computer Science Education. <https://doi.org/10.1145/3478432.3499077>

Nguyen, Tu (Assistant Professor)

Refereed Journal Articles

Journal Article, Academic Journal (Published)

Lipsa, S., Nguyen, T., Dash, R. K. (2022). A New Signature-Based Blockchain Paradigm: Foreseeable Impact on Healthcare Applications. *IEEE Internet of Things Magazine*, 5(3), 146-151, .Peer Review - Refereed

Journal Article, Academic Journal (Published)

Khan, H. A., Nguyen, T., Shafiq, G., Mirza, J., Javed, M. A. (2022). A Secure Wearable Framework for Stress Detection in Patients Affected by Communicable Diseases. *IEEE Sensors Journal*, 1-1, .Peer Review - Refereed

Journal Article, Academic Journal (Published)

Han, Z., Yang, Y., Wang, W., Zhou, L., Nguyen, T., Su, C. (2022). Age Efficient Optimization in UAV-Aided VEC Network: A Game Theory Viewpoint. *IEEE Transactions on Intelligent Transportation Systems*, 23(12), 25287-25296, .Peer Review - Refereed

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Nguyen, T., Ngo, Q.-D., Nguyen, H.-T., Nguyen, G. L. (2022). An Advanced Computing Approach for IoT-Botnet Detection in Industrial Internet of Things. *IEEE Transactions on Industrial Informatics*, 18(11), 8298-8306, .Peer Review - Refereed

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Attiya, I., Elaziz, M. A., Abualigah, L., Nguyen, T., El-Latif, A. A. Abd (2022). An Improved Hybrid Swarm Intelligence for Scheduling IoT Application Tasks in the Cloud. *IEEE Transactions on Industrial Informatics*, 18(9), 6264-6272, .Peer Review - Refereed

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Le, L., Nguyen, T. (2022). DQRA: Deep Quantum Routing Agent for Entanglement Routing in Quantum Networks. *IEEE Transactions on Quantum Engineering*, 3, 1-12, .Peer Review - Refereed

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Khan, W. U., Ihsan, A., Nguyen, T., Ali, Z., Javed, M. A. (2022). NOMA-Enabled Backscatter Communications for Green Transportation in Automotive-Industry 5.0. *IEEE Transactions on Industrial Informatics*, 18(11), 7862-7874, .Peer Review - Refereed

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Ahmed, J., Nguyen, T., Ali, B., Javed, A., Mirza, J. (2022). On the Physical Layer Security of Federated Learning based IoMT Networks. *IEEE Journal of Biomedical and Health Informatics*, 1-1, .Peer Review - Refereed

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Samantra, A., Sa, P. K., Nguyen, T., Sangaiah, A. K., Bakshi, S. (2022). On the Usage of Neural POS Taggers for Shakespearean Literature in Social Systems. *IEEE Transactions on Computational Social Systems*, 1-11, .Peer Review - Refereed

Journal Article, Academic Journal (Published)

Javed, M. A., Nguyen, T., Mirza, J., Ahmed, J., Ali, B. (2022). Reliable Communications for Cybertwin-Driven 6G IoTs Using Intelligent Reflecting Surfaces. *IEEE Transactions on Industrial Informatics*, 18(11), 7454-7462, .Peer Review - Refereed

Journal Article, Academic Journal (Published)

Tanveer, M., Khan, A. U., Ahmad, M., Nguyen, T., El-Latif, A. A. Abd (2022). Resource-Efficient Authenticated Data Sharing Mechanism for Smart Wearable Systems. *IEEE Transactions on Network Science and Engineering*, 1-12, .Peer Review - Refereed

Journal Article, Academic Journal (Published)

Adam, A. B. M., Muthanna, M. S. A., Muthanna, A., Nguyen, T., El-Latif, A. A. Abd (2022). Toward Smart Traffic Management With 3D Placement Optimization in UAV-Assisted NOMA IIoT Networks. *IEEE Transactions on Intelligent Transportation Systems*, 1-11, .Peer Review - Refereed

Journal Article, Academic Journal (Published)

Tanveer, M., Khan, A. U., Nguyen, T., Ahmad, M., Abdei-Latif, A. (2022). Towards A Secure and Computational Framework for Internet of Drones Enabled Aerial Computing. *IEEE Transactions on Network Science and Engineering*, 1-1, .Peer Review - Refereed

Journal Article, Academic Journal (Published)

Muthanna, M. S. A., Muthanna, A., Nguyen, T., Alshahrani, A., El-Latif, A. A. Abd (2022). Towards optimal positioning and energy-efficient UAV path scheduling in IoT applications. *Computer Communications*, 191, 145-160, ., <https://www.sciencedirect.com/science/article/pii/S0140366422001414>Peer Review - Refereed

Journal Article, Academic Journal (Published)

Shabir, M. W., Nguyen, T., Mirza, J., Ali, B., Javed, M. A. (2022). Transmit and Reflect Beamforming for Max-Min SINR in IRS-Aided MIMO Vehicular Networks. *IEEE Transactions on Intelligent Transportation Systems*, 1-7, .Peer Review - Refereed

Journal Article, Academic Journal (Published)

Ranjha, A., Nguyen, T., Javed, M. A. (2022). AECT: Accurate Energy Efficient Contact Tracing Using Smart Phones for Infectious Disease Detection. *ACM Trans. Sen. Netw.*, ., <https://doi.org/10.1145/3561304>Peer Review - Refereed

Non-Refereed Journal Articles

Journal Article, Academic Journal (Published)

Chu, S.-I., Wu, C.-L., Nguyen, T., Liu, B.-H. (2022). Polynomial Computation Using Unipolar Stochastic Logic and Correlation Technique. *IEEE Transactions on Computers*, 71(6), 1358-1373, .

Conference Proceedings

Conference Proceeding (Published)

Shi, Y., Lingareddy, I. J., Suo, K., Nguyen, T. (2022). *Optimizing Resource Allocation in Cloud*. Online: 2022 IEEE 13th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON).Peer Review - Refereed

Conference Proceeding (Published)

Le, L., Nguyen, T., Lee, A., Dumba, B. (2022). Entanglement Routing For Quantum Networks: A Deep Reinforcement Learning Approach. *ICC 2022 - IEEE International Conference on Communications* (pp. 395-400).Peer Review - Refereed

Conference Proceeding (Published)

Nguyen, T., Nguyen, D. H. P., Pham, D. H., Liu, B.-H., Nguyen, H. N. (2022). LP Relaxation-Based Approximation Algorithms for Maximizing Entangled Quantum Routing Rate. *ICC 2022 - IEEE International Conference on Communications* (pp. 3269-3274).Peer Review - Refereed

Conference Proceeding (Published)

Vo, H. V., Nguyen, H. N., Nguyen, T., Du, H. P. (Published). Towards A Hybrid Signature and Deep Analysis-based Intrusion Detection Method. *IEEE Global Communications Conference (GLOBECOM 2022)*.Peer Review - Refereed

Conference Proceeding (Published)

Suo, K., Nguyen, T., Shi, Y., He, S., Hung, C.-C. (2022). *Keep Clear of the Edges: An Empirical Study of Artificial Intelligence Workload Performance and Resource Footprint on Edge Devices*. IEEE International Performance, Computing, and Communications Conference (IPCCC). <https://www.ipccc.org/>Peer Review - Refereed

Conference Proceeding (Published)

Le, L., Nguyen, T. N., Suo, K., He, S. (Published). *5G Network Slicing and Drone-Assisted Applications: A Deep Reinforcement Learning Approach*. Mobicom/Drone.Peer Review - Refereed

Noh, Jiho (Assistant Professor)

Conference Proceedings

Conference Proceeding (Accepted)

Gadireddy, G. R., Adatrao, N. S. K., Noh, J. (in press). *A Survey on Conversational Search and Applications in Biomedicine.. ACM Southeast Conference*.Peer Review - Refereed

Conference Proceeding (Accepted)

Chen, T., Noh, J., Cranfill, L., Morris, J., Son, J. (in press). *Improving Fashion Attribute Classification Accuracy with Limited Labeled Data Using Transfer Learning.. IEEE International Conference on Machine Learning and Applications (ICMLA)*.Peer Review - Refereed

North, Sarah M. (Senior Lecturer)

Refereed Journal Articles

Journal Article, Academic Journal (Published)

Rhea, J., North, M., Richardson, R., North, S., Okhio, C., Garofalo, D., Golias, Y., Lopez, A., Mambobo, D., Patel, K., Watson, D. (2022). Mobile Applications Utilization in the Healthcare Sector. *International Management Review Journal*, 18(1), 88-102, ., <http://www.americanscholarspress.us/journals/IMR/pdf/IMR-1-2022/IMRv8n1-art10.pdf>Peer Review - Refereed

Parakh, Abhishek (Associate Professor)

Refereed Journal Articles

Journal Article, Academic Journal (Published)

Parakh, A., Subramaniam, M. (2022). Galore: A Platform for Experiential Learning. *Journal of the The Colloquium for Information Systems Security Education*, 9(1), .Peer Review - Refereed

Journal Article, Academic Journal (Published)

Mishra, S., Thapliyal, K., Parakh, A., Pathak, A. (2022). Quantum anonymous veto: a set of new protocols. *EPJ Quantum Technology*, 9(14), .Peer Review - Refereed

Journal Article, Academic Journal (Published)

Parakh, A. (2022). Quantum teleportation with one classical bit. *Nature Scientific Reports*, 12(3392), .Peer Review - Refereed

Conference Proceedings

Conference Proceeding (Published)

Parakh, A., Subramaniam, M., Chundi, P. (2022). A Framework for Incorporating Serious Games into Learning Object Repositories through Experiential Learning. *[Best Paper Award Nominee]* (pp. 5253-5263). 55th Hawaii International Conference on System Sciences. Peer Review - Refereed

Conference Proceeding (Published)

Parakh, A., Subramaniam, M. (2022). *Evaluating different topologies for multi-photon quantum key distribution* (1209309th ed., vol. 12093). SPIE Defense + Commercial Sensing. Peer Review - Refereed

Conference Proceeding (Published)

Burr, J., Parakh, A., Subramaniam, M. (2022). *Evaluating different topologies for multi-photon quantum key distribution* (vol. 12093, pp. 1209309). SPIE Defense + Commercial Sensing. Peer Review - Refereed

Other Intellectual Contributions

Magazine/Trade Publication (Published)

Burr, J., Parakh, A., Subramaniam, M. (2022). In Peter J. Denning (Ed.), *Quantum Internet* (August ed., vol. 2022, pp. 1-14). ACM. Peer Review - Refereed

Shaw, Alan (Associate Professor)

Book Chapters

Book, Chapter in Scholarly Book-New (Published)

Shaw, A., Crombie, W. (2023). Providing a "Playing Field": An Epistemic Playground, a Sandbox, and the Algebra Project 5-Step Curricular Process. In Olga S. Jarrett, Vera L. Stenhouse, Michael M. Patte, John A. Sutterby (Ed.), *Play and Social Justice Across Systems of Inequity*. New York: Peter Lang Ltd International Academic Publishers. Editorial Review

Shi, Yong (Associate Professor)

Conference Proceedings

Conference Proceeding (Published)

Shi, Y., Shahriar, H. M., Lo, D. C.-T., Qian, K., Chi, H. (2023). *Collaborative and Active Learning with Portable Online Hands-on Labware for Blockchain Development* (978-1-4503-9433-8 ed.). 54th ACM Technical Symposium on Computer Science Education. Peer Review - Refereed

Conference Proceeding (Published)

Shi, Y., Shahriar, H. M., Lo, D. C.-T., Chi, H. (2022). *Enhancing Blockchain Technology Education with Innovative Active Learning*. Online: IEEE ICALTER 2022 : The 2nd International Conference on Advanced Learning Technologies on Education & Research. <https://ieeexplore.ieee.org/document/9623102>

Conference Proceeding (Published)

Shi, Y., Lingareddy, I. J., Suo, K., Nguyen, T. (2022). *Optimizing Resource Allocation in Cloud*. Online: 2022 IEEE 13th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON). Peer Review - Refereed

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Ga, C., Zhang, Y., Lo, D. C.-T., Shi, Y., Huang, J. (2022). *Improving the Machine Learning Prediction Accuracy with Clustering Discretization* (pp. 0513-0517). 2022 IEEE 12th Annual Computing and Communication Workshop and Conference (CCWC). Peer Review - Refereed

Conference Proceeding (Published)

Holmes, T., McLarty, C., Shi, Y., Bobbie, P., Suo, K. (2022). *Energy Efficiency on Edge Computing: Challenges and Vision*. IEEE International Performance, Computing, and Communications Conference (IPCCC). <https://www.ipccc.org/>

Conference Proceeding (Published)

Suo, K., Nguyen, T., Shi, Y., He, S., Hung, C.-C. (2022). *Keep Clear of the Edges: An Empirical Study of Artificial Intelligence Workload Performance and Resource Footprint on Edge Devices*. IEEE International Performance, Computing, and Communications Conference (IPCCC). <https://www.ipccc.org/> Peer Review - Refereed

Conference Proceeding (Published)

Lo, D. C.-T., Shi, Y., Qian, K., Shahriar, H., Ng, C. (2022). *Broaden Multidisciplinary Data Science Research by an Innovative Cyberinfrastructure Platform* (pp. 428-429). 2022 IEEE 46th Annual Computers, Software, and Applications Conference (COMPSAC). Peer Review - Refereed

Conference Proceeding (Published)

Ga, C., Shahriar, H. M., Lo, D. C.-T., Shi, Y., Qian, K. (2022). *Improving the Prediction Accuracy with Feature Selection for Ransomware Detection* (pp. 424-425). 2022 IEEE 46th Annual Computers, Software, and Applications Conference (COMPSAC). Peer Review - Refereed

Suo, Kun (Assistant Professor)

Refereed Journal Articles

Journal Article, Academic Journal (Published)

Huang, H., Zhao, Y., Rao, J., Wu, S., Hai, J., Suo, K., Pan, L. (2023). Adapt Burstable Containers to Variable CPU Resources. *IEEE Transactions on Computers*, ., Acceptance Rate: 24%, Impact Factor: 3.131, <https://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=71>Peer Review - Refereed

Journal Article, Academic Journal (Published)

Shin, S., Boyapati, M., Suo, K., Kang, K., Son, J. (2023). An empirical analysis of image augmentation against model inversion attack in federated learning. *The Journal of Networks, Software Tools and Applications*, ., Acceptance Rate: 28%, Impact Factor: 2.303, <https://www.springer.com/journal/10586>Peer Review - Refereed

Non-Refereed Journal Articles

Journal Article, Academic Journal (Published)

Wang, K., Suo, K., Liu, Y., Huang, H., Huang, Z., Jin, H. (2023). Characterizing and Optimizing Kernel Resource Isolation for Containers. *Future Generation Computer Systems*, .

Conference Proceedings

Conference Proceeding (Published)

Shi, Y., Lingareddy, I. J., Suo, K., Nguyen, T. (2022). *Optimizing Resource Allocation in Cloud*. Online: 2022 IEEE 13th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON).Peer Review - Refereed

Conference Proceeding (Published)

Holmes, T., McLarty, C., Shi, Y., Bobbie, P., Suo, K. (2022). *Energy Efficiency on Edge Computing: Challenges and Vision*. IEEE International Performance, Computing, and Communications Conference (IPCCC). <https://www.ipccc.org/>

Conference Proceeding (Published)

Suo, K., Nguyen, T., Shi, Y., He, S., Hung, C.-C. (2022). *Keep Clear of the Edges: An Empirical Study of Artificial Intelligence Workload Performance and Resource Footprint on Edge Devices*. IEEE International Performance, Computing, and Communications Conference (IPCCC). <https://www.ipccc.org/>Peer Review - Refereed

Conference Proceeding (Published)

Le, L., Nguyen, T. N., Suo, K., He, S. (Published). *5G Network Slicing and Drone-Assisted Applications: A Deep Reinforcement Learning Approach*. Mobicom/Drone.Peer Review - Refereed

Zhang, Xinyue (Assistant Professor)

Conference Proceedings

Conference Proceeding (Published)

Zhang, X., Chen, R., Wang, J., Zhang, H., Pan, M. (Published). *Energy Efficient Federated Learning over Cooperative Relay-Assisted Wireless Networks*. IEEE Global Communications Conference (GLOBECOM) 2022.Peer Review - Refereed

Conference Proceeding (Published)

Norkham, A., Chalupa, M., Gardner, N., Khan, M. A. A. H., Zhang, X., Hung, C.-C. (2022). *Reinforcement Learning Agent Path Planning with Expert Demonstration*. IEEE 46th Annual Computers, Software, and Applications Conference (COMPSAC) 2022. <https://ieeexplore.ieee.org/document/9842674>Peer Review - Refereed

Conference Proceeding (Published)

Li, J., Zhang, X., Zhao, L. (Published). *Robust Federated Learning based on Metrics Learning and Unsupervised Clustering for Malicious Data Detection*. ACMSE 2022.

Department of Information Technology

Le, Linh T. (Assistant Professor)

Refereed Journal Articles

Journal Article, Academic Journal (Published)

Le, L., Nguyen, T. (2022). DQRA: Deep Quantum Routing Agent for Entanglement Routing in Quantum Networks. *IEEE Transactions on Quantum Engineering*, 3, 1-12, .Peer Review - Refereed

Conference Proceedings

Conference Proceeding (Published)

Le, L., Nguyen, T., Lee, A., Dumba, B. (2022). Entanglement Routing For Quantum Networks: A Deep Reinforcement Learning Approach. *ICC 2022 - IEEE International Conference on Communications* (pp. 395-400).Peer Review - Refereed

Conference Proceeding (Published)

Le, L., Nguyen, T. N., Suo, K., He, S. (Published). *5G Network Slicing and Drone-Assisted Applications: A Deep Reinforcement Learning Approach*. Mobicom/Drone.Peer Review - Refereed

Li, Lei (Professor)

Book Chapters

Book, Chapter in Scholarly Book-New (Published)

Zheng, J., Li, Z., Li, L. (2023). Go beyond the Technology - Emphasizing Soft Skills in IT/IS Capstone Classes. In Mark I. Hwang (Ed.), *the Handbook of Teaching and Learning in IS* (pp. 44-67). MARIETTA: Teaching Information Systems. 1100 S MARIETTA PKWY SEPeer Review - Refereed

Book, Chapter in Scholarly Book-New (Published)

Nasajpour, M., Pouriye, S., Meimandi Parizi, R., Zhao, L., Li, L. (2022). *Internet of Things use case applications for COVID-19*. Book: Edge-of-Things in Personalized Healthcare Support Systems : Concepts, Practices, and Applications.Peer Review - Refereed

Li, Zhigang (Assistant Professor)

Book Chapters

Book, Chapter in Scholarly Book-New (Published)

Zheng, J., Li, Z., Li, L. (2023). Go beyond the Technology - Emphasizing Soft Skills in IT/IS Capstone Classes. In Mark I. Hwang (Ed.), *the Handbook of Teaching and Learning in IS* (pp. 44-67). MARIETTA: Teaching Information Systems. 1100 S MARIETTA PKWY SEPeer Review - Refereed

Refereed Journal Articles

Journal Article, Academic Journal (Published)

Kulal, S., Li, Z., Tian, S. (2022). Security and Privacy in Virtual Reality: A Literature Review. *IACIS Annual Conference/ Issues in Information Systems (IIS)*, .Peer Review - Refereed

Journal Article, Academic Journal (Accepted)

Yang, M., Li, J., Li, Z., Li, W., Yu, M. (2023). Self-Adaptive SURF for Image-Video Matching. To appear in *Springer Journal of Signal, Image and Video Processing*, ., Impact Factor: 2.156Peer Review - Refereed

Conference Proceedings

Conference Proceeding (Published)

Gumbo, Y., Zhao, L., Tian, S., Li, Z., Long, Y. (2023). *A Literature Review on Privacy and Security in Virtual Reality and Augmented Reality*. SAIS 2023. <https://aisel.aisnet.org/cgi/viewcontent.cgi?article=1005&context=sais2023>Peer Review - Refereed

Conference Proceeding (Published)

Li, J., Li, Z., Zhang, C. (2022). *A Review of Immersive Virtual Reality in Special Education*. Information Systems and Computing Academic Professionals (ISCAP). <https://iscap.us/papers/>Peer Review - Refereed

Conference Proceeding (Published)

Li, Z., Tian, S., Jin, Y. (2022). *The Effectiveness of a Hybrid Cybersecurity Summer Camp for Teachers*. AMCIS 2022.Peer Review - Refereed

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Kulal, S., Tian, S., Li, Z. (2022). *Effectiveness of Bridging Master Program in Cybersecurity and Industry in US: Program Comparison and Analysis*. SAIS 2022 Conference.Peer Review - Refereed

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Li, J., Li, Z., Zhang, C. (2022). *Learning-by-Teaching in CS Education: A Systematic Review* (pp. 972-981). Hawaii: Hawaii International Conference on System Sciences.Peer Review - Refereed

Pouriyeh, Seyedamin (Assistant Professor)

Book Chapters

Book, Chapter in Scholarly Book-New (Published)

Nasajpour, M., Pouriyeh, S., Meimandi Parizi, R., Zhao, L., Li, L. (2022). *Internet of Things use case applications for COVID-19*. Book: *Edge-of-Things in Personalized Healthcare Support Systems : Concepts, Practices, and Applications*.Peer Review - Refereed

Refereed Journal Articles

Journal Article, Academic Journal (Published)

Mosaiyebzadeh, F., Pouriyeh, S., Meimandi Parizi, R., Z. Sheng, Q., Zhao, L., Batista, D. (2023). Privacy-Enhancing Technologies in Federated Learning for the Internet of Healthcare Things: A Survey. *MDPI electronics - Special Issue "IoT for Healthcare and Wellbeing: Trends, Challenges, and Applications"*, .Peer Review - Refereed

Journal Article, Academic Journal (Published)

Regan, C., Nasajpour, M., Meimandi Parizi, R., Pouriyeh, S., Dehghantanha, A., Choo, K.-K. R. (2022). Federated IoT security attack detection using decentralized edge data. *Machine Learning with Applications*, 100263, ., Impact Factor: 3.8, <https://www.sciencedirect.com/science/article/pii/S2666827022000081>Peer Review - Refereed

Journal Article, Academic Journal (Published)

Pouriyeh, S., Shahid, O., Meimandi Parizi, R., Sheng, Q. Z., Srivastava, G., Zhao, L. (2022). Secure Smart Communication Efficiency in Federated Learning: Achievements and Challenges. *Applied Sciences Journal*, ., Impact Factor: 2.83, <https://www.mdpi.com/2076-3417/12/18/8980>Peer Review - Refereed

Journal Article, Academic Journal (Published)

Hussain, Z., Sheng, Q. Z., Emma Zhang, W., Ortiz, J., Pouriyeh, S. (2022). Non-invasive Techniques for Monitoring Different Aspects of Sleep: A Comprehensive Review. *ACM Transactions on Computing for Healthcare (HEALTH)*, 3(2), 1-26, .Peer Review - Refereed

Conference Proceedings

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Mosaiyebzadeh, F., Pouriyeh, S., Meimandi Parizi, R., Han, M., Batista, D. (2023). *Intrusion Detection System for IoHT Devices using Federated Learning*. IEEE International Conference on Computer Communications (The 2023 International Workshop on AI-Driven Trustworthy, Secure, and Privacy-Preserving Computing).

Conference Proceeding (Published)

Patan, R., Meimandi Parizi, R., Pouriyeh, S., Khan, M. S., Gandomi, A. H. (2022). A Secured Certificateless Sign-encrypted Blockchain Communication for Intelligent Transport System. *2022 IEEE Conference on Communications and Network Security (CNS)* (pp. 1-7).Peer Review - Refereed

Conference Proceeding (Published)

Mothukuri, V., Meimandi Parizi, R., Pouriyeh, S., Mashhadi, A. (2022). CloudFL: A Zero-Touch Federated Learning Framework for Privacy-Aware Sensor Cloud. *Proceedings of the 17th International Conference on Availability, Reliability and Security*. New York, NY, USA: ACM. <https://doi.org/10.1145/3538969.3543783>Peer Review - Refereed

Conference Proceeding (Published)

Nasajpour, M., Karakaya, M., Pouriyeh, S., Meimandi Parizi, R. (2022). *Federated Transfer Learning for Diabetic Retinopathy Detection Using CNN Architectures*. IEEE Southeast Conference.Peer Review - Refereed

Sakib, Nazmus (Assistant Professor)

Refereed Journal Articles

Journal Article, Academic Journal (Published)

Anik, F. I., Sakib, N., Shahriar, H., Xie, Y., Nahiyen, H. A., Ahamed, S. I. (Published). Unraveling a Blockchain-based Framework towards Patient Empowerment: A Scoping Review Envisioning Future Smart Health Technologies. *Elsevier Smart Health*, ., Acceptance Rate: Very CompetitivePeer Review - Refereed

Conference Proceedings

Conference Proceeding (Published)

Reddy, J., Attuluri, A., Kolli, A., Sakib, N. *, Shahriar, H. M., Cuzzocrea, A. (2022). *A Crowd Source System for YouTube Big Data Analytics: Unpacking Values from Data Sprawl* (pp. 7). IEEE: IEEE Big Data 2022. <http://bigdataieee.org/BigData2022/>Peer Review - Refereed

Conference Proceeding (Published)

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Tian, Shirley (Assistant Professor)

Refereed Journal Articles

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Valero de Clemente, Maria A. (Assistant Professor)

Refereed Journal Articles

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Xie, Chloe Yixin (Assistant Professor)

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Xie, Ying (Professor)

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Yang, Ming (Professor)

Refereed Journal Articles

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Zhang, Chi (Professor)

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Li, J., Li, Z., Zhang, C. (2022). *Learning-by-Teaching in CS Education: A Systematic Review* (pp. 972-981). Hawaii: Hawaii International Conference on System Sciences.Peer Review - Refereed

Zhao, Liang (Assistant Professor)

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Zheng, Jack (Associate Professor)

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SEPeer Review - Refereed

Department of Software Engineering and Game Development

Dehbozorgi, Nasrin (Assistant Professor)

Conference Proceedings

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Dehbozorgi, N., Chowdary Attota, D. (Published). *A Conversational Recommender System for Exploring Pedagogical Design Patterns*. Springer and ACM digital library. Peer Review - Refereed

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Huang, Yan (Assistant Professor)

Refereed Journal Articles

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Jung, Sungchul (Assistant Professor)

Conference Proceedings

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Li, Joy (Assistant Professor)

Refereed Journal Articles

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Huang, Y., Li, J., Cai, Z. (2023). Security and Privacy in Metaverse: A Comprehensive Survey. *Big Data Mining and Analytics*, 6(2), 234-247, ., Impact Factor: 5.6, <https://ieeexplore.ieee.org/document/10026513>Peer Review - Refereed

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Li, Xia (Assistant Professor)

Conference Proceedings

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Hossain Faruk, M. J., Subramaniyan, S., Shahriar, H. M., Valero de Clemente, M. A., Li, X. (2022). *Software Engineering Process and Methodology in Blockchain-Oriented Software Development: A Systematic Study*. 20th IEEE/ACIS International Conference on Software Engineering, Management and Applications (SERA 2022). Peer Review - Refereed

Markowsky, George (Professor)

Non-Refereed Journal Articles

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

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

Meimandi Parizi, Reza (Associate Professor)

Book Chapters

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Nasajpour, M., Pouriye, S., Meimandi Parizi, R., Zhao, L., Li, L. (2022). *Internet of Things use case applications for COVID-19*. Book: Edge-of-Things in Personalized Healthcare Support Systems : Concepts, Practices, and Applications. Peer Review - Refereed

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Mosaiyebzadeh, F., Pouriye, S., Meimandi Parizi, R., Z. Sheng, Q., Zhao, L., Batista, D. (2023). Privacy-Enhancing Technologies in Federated Learning for the Internet of Healthcare Things: A Survey. *MDPI electronics - Special Issue "IoT for Healthcare and Wellbeing: Trends, Challenges, and Applications"*, . Peer Review - Refereed

Journal Article, Academic Journal (Published)

Regan, C., Nasajpour, M., Meimandi Parizi, R., Pouriye, S., Dehghantanha, A., Choo, K.-K. R. (2022). Federated IoT security attack detection using decentralized edge data. *Machine Learning with Applications*, 100263, ., Impact Factor: 3.8, <https://www.sciencedirect.com/science/article/pii/S2666827022000081> Peer Review - Refereed

Journal Article, Academic Journal (Published)

Xie, Z., Huang, Y., Yu, D., Parizi, R. M., Zheng, Y., Pang, J. (2022). FedEE: A Federated Graph Learning Solution for Extended Enterprise Collaboration. *IEEE Transactions on Industrial Informatics*, ., Impact Factor: 10.215Peer Review - Refereed

Journal Article, Academic Journal (Published)

Pouriyeh, S., Shahid, O., Meimandi Parizi, R., Sheng, Q. Z., Srivastava, G., Zhao, L. (2022). Secure Smart Communication Efficiency in Federated Learning: Achievements and Challenges. *Applied Sciences Journal*, ., Impact Factor: 2.83, <https://www.mdpi.com/2076-3417/12/18/8980>Peer Review - Refereed

Non-Refereed Journal Articles

Journal Article, Academic Journal (Published)

Kim, Y., Son, J., Meimandi Parizi, R., Srivastava, G., Oh, H. (2022). 3-Multi ranked encryption with enhanced security in cloud computing. *Digital Communications and Networks*, ., <https://www.sciencedirect.com/science/article/pii/S2352864822001146>

Journal Article, Academic Journal (Published)

Yazdinejad, A., Zolfaghari, B., Dehghantanha, A., Karimipour, H., Srivastava, G., Meimandi Parizi, R. (2022). Accurate threat hunting in industrial internet of things edge devices. *Digital Communications and Networks*, ., <https://www.sciencedirect.com/science/article/pii/S2352864822001857>

Journal Article, Academic Journal (Published)

Yazdinejad, A., Dehghantanha, A., Karimipour, H., Srivastava, G., Meimandi Parizi, R. (2022). An efficient packet parser architecture for software-defined 5G networks. *Physical Communication*, 53, 101677, ., <https://www.sciencedirect.com/science/article/pii/S1874490722000453>

Journal Article, Academic Journal (Published)

Yazdinejad, A., Kazemi, M., Meimandi Parizi, R., Dehghantanha, A., Karimipour, H. (2022). An ensemble deep learning model for cyber threat hunting in industrial internet of things. *Digital Communications and Networks*, ., <https://www.sciencedirect.com/science/article/pii/S2352864822001833>

Journal Article, Academic Journal (Published)

Yazdinejad, A., Dehghantanha, A., Meimandi Parizi, R., Hammoudeh, M., Karimipour, H., Srivastava, G. (2022). Block Hunter: Federated Learning for Cyber Threat Hunting in Blockchain-Based IIoT Networks. *IEEE Transactions on Industrial Informatics*, 18(11), 8356-8366, .

Conference Proceedings

Conference Proceeding (Published)

Mosaiyebzadeh, F., Pouriyeh, S., Meimandi Parizi, R., Han, M., Batista, D. (2023). *Intrusion Detection System for IoHT Devices using Federated Learning*. IEEE International Conference on Computer Communications (The 2023 International Workshop on AI-Driven Trustworthy, Secure, and Privacy-Preserving Computing).

Conference Proceeding (Published)

Patan, R., Meimandi Parizi, R., Pouriyeh, S., Khan, M. S., Gandomi, A. H. (2022). A Secured Certificateless Sign-encrypted Blockchain Communication for Intelligent Transport System. *2022 IEEE Conference on Communications and Network Security (CNS)* (pp. 1-7).Peer Review - Refereed

Conference Proceeding (Published)

Mashhadi, A., Tabaraei, A., Zhan, Y., Meimandi Parizi, R. (2022). An Auditing Framework for Analyzing Fairness of Spatial-Temporal Federated Learning Applications. *2022 IEEE World AI IoT Congress (AlloT)* (pp. 699-707).

Conference Proceeding (Published)

Mothukuri, V., Meimandi Parizi, R., Pouriye, S., Mashhadi, A. (2022). CloudFL: A Zero-Touch Federated Learning Framework for Privacy-Aware Sensor Cloud. *Proceedings of the 17th International Conference on Availability, Reliability and Security*. New York, NY, USA: ACM. <https://doi.org/10.1145/3538969.3543783>Peer Review - Refereed

Conference Proceeding (Published)

Patan, R., Meimandi Parizi, R. (2022). Performance Improvement of Blockchain-based IoT Applications using Deep Learning Techniques. *2022 4th IEEE International Conference on Blockchain Computing and Applications (BCCA)* (pp. 151-158).

Conference Proceeding (Published)

Nasajpour, M., Karakaya, M., Pouriye, S., Meimandi Parizi, R. (2022). *Federated Transfer Learning for Diabetic Retinopathy Detection Using CNN Architectures*. IEEE Southeast Conference. Peer Review - Refereed

Pournaghshband, Hassan (Professor)

Books

Book, Article/Case (Published)

Pournaghshband, H., Hossein Faruk, M. J. (2022). AI-Oriented Software Engineering: Challenges, Opportunities, and New Directions. *New Perspectives in Software Engineering* (pp. 3 - 19). Springer.

Conference Proceedings

Conference Proceeding (Published)

Pournaghshband, H., Hossein Faruk, M. J. (2022). *AI-Oriented Software Engineering: Challenges, Opportunities, and New Directions* (pp. 8). International Conference on Software Process Improvement.

Spoletini, Paola (Professor)

Refereed Journal Articles

Journal Article, Academic Journal (Published)

Ferrari, A., Spoletini, P., Debnath, S. (2022). How do requirements evolve during elicitation? An empirical study combining interviews and app store analysis. *Requirements Engineering Journal*. Peer Review - Refereed

Conference Proceedings

Conference Proceeding (Published)

Spoletini, P. (2023). *Strategies, Benefits and Challenges of App Store-inspired Requirements Elicitation*. Proceedings of the 45th ACM/IEEE Conference on Software Engineering. Peer Review - Refereed

Conference Proceeding (Published)

Grubb, A., Spoletini, P. (2023). *Bringing Stakeholders Along for the Ride: Towards Supporting Intentional Decisions in Software Evolution*. Proceeding of the 29th International Working Conference on Requirement Engineering: Foundation for Software Quality. Peer Review - Refereed

Conference Proceeding (Published)

Cherukuri, H., Ferrari, A., Spoletini, P. (Published). *Towards Explainable Formal Methods: from LTL to Natural Language with Neural Machine Translation*. Requirements Engineering: Foundation for Software Quality - 28th International Working Conference, REFSQ 2022.

Warpefelt, Henrik H. (Assistant Professor)

Conference Proceedings

Conference Proceeding (Published)

Warpefelt, H. (2022). Developing the Relic Series: Exploring the Effects of Remediating Naively Generated Narrative. *FDG'22: Proceedings of the 17th International Conference on the Foundations of Digital Games*. ACM.

Conference Proceeding (Published)

Warpefelt, H. (2022). A Gap in Games Research: Reflecting on Two Camps and a Bridge. *FDG'22: Proceedings of the 17th International Conference on the Foundations of Digital Games*. ACM. Peer Review - Refereed

Other Intellectual Contributions

Editorial for journal special issue (Published)

Warpefelt, H., Salge, C., Palosaari Eladhari, M., Seif El-Nasr, M., Zhu, J. (2022). Guest Editorial: User Experience of AI in Games. In Henrik Warpefelt, Christoph Salge, Mirjam Palosaari Eladhari, Magy Seif El-Nasr, Jichen Zhu (Ed.), *IEEE Transactions on Games: Special issue on the User Experience of Artificial Intelligence in Games* (Special issue on the User Experience of Artificial Intelligence in Games ed.). IEEE Transactions on Games. Invited

School of Data Science and Analytics

Brown, Austin (Assistant Professor)

Refereed Journal Articles

Journal Article, Academic Journal (Published)

Lopez, R., Ikedum, I., Ndungu, B., Brown, A., Sneha, S. (2023). Assessing the Relationship Between Educational Attainment and Flu Vaccination: An Examination of the 2019 Behavioral Risk Factor Surveillance System. *Journal of Public Health: From Theory to Practice*, ., Impact Factor: 1.8Peer Review - Refereed

Journal Article, Academic Journal (Published)

Maguire, M. R., White, M. A., Brown, A. (2023). The Quality of Care Delivered in a Simulation Center: A Benchmark Study. *Nurse Educator*, ., Impact Factor: 2.082Peer Review - Refereed

Journal Article, Academic Journal (Published)

Taasoobshirazi, G., Wagner, M., Brown, A., Copeland, C. (2022). An evaluation of college students' perceptions of statisticians. *Journal of Statistics and Data Science Education*, 30(2), 138-153, ., Impact Factor: 1.07Peer Review - Refereed

Journal Article, Academic Journal (Published)

Brown, A., Do, A. (Published). Predicting Multiple Injuries to Major League Baseball Pitchers: A Logistic Regression Analysis over the 2009 – 2019 Regular Seasons. *Research in Sports Medicine*, ., Acceptance Rate: 14%, Impact Factor: 4.7Peer Review - Refereed

Conference Proceedings

Conference Proceeding (Published)

Brown, A. (2022). *A SAS Macro for Implementing a Nonparametric Control Charting Scheme for Individual Observations*. Southeastern SAS Users Group.

DiPietro, Michele (Professor)

Book Chapters

Book, Chapter in Scholarly Book-New (Published)

DiPietro, M., Steiner, H. H. (2022). Foreword. In Nancy Chick and Jennifer Friberg (Ed.), *Going public reconsidered: Engaging with the world beyond academe through the scholarship of teaching and learning*. Stylus.Invited

Franks, Bill (Lecturer)

Refereed Journal Articles

Journal Article, Academic Journal (Published)

Rathgamage Don, D. P., Boardman, J., Sayenju, S., Aygun, R., Zhang, Y., Franks, W., Johnston, S., Lee, G., Sullivan, D., Modgil, G. (2023). Automation of Explainability Auditing for Image Recognition. *International Journal of Multimedia Engineering and Management*, 14(1), 17, ., <https://www.igi-global.com/gateway/article/332882>Editorial Review

Non-Refereed Journal Articles

Journal Article, Academic Journal (Published)

Sayenju, S., Aygun, R., Boardman, J., Rathgamage Don, D. P., Zhang, Y., Franks, W., Johnston, S., Lee, G., Sullivan, D., Modgil, G. (2022). Quantification and Mitigation of Directional Pairwise Class Confusion Bias in a Chatbot Intent Classification Model. *International Journal of Semantic Computing*, .

Conference Proceedings

Conference Proceeding (Published)

Rathgamage Don, D. P., Boardman, J., Sayenju, S., Aygun, R., Zhang, Y., Franks, W., Johnston, S., Lee, G., Sullivan, D., Modgil, G. (2022). *ExplainabilityAudit: An Automated Evaluation of Local Explainability in Image Recognition*. 2022 IEEE 23rd International Conference on Information Reuse and Integration for Data Science.

Conference Proceeding (Published)

Sayenju, S., Aygun, R., Franks, W., Johnston, S., Lee, G., Modgil, G. (2022). *Stereotype and Categorical Bias Evaluation via Differential Cosine Bias Measure*. 2022 IEEE International Conference on Big Data Workshop - 1st International Workshop on Responsible AI and Data Ethics (RAIDE 2022) RAIDE 2022. Peer Review - Refereed

Conference Proceeding (Published)

Sayenju, S., Aygun, R., Boardman, J., Rathgamage Don, D. P., Zhang, Y., Franks, W., Johnston, S., Lee, G., Sullivan, D., Modgil, G. (2022). *Directional Pairwise Class Confusion Bias and Its Mitigation*. 16th IEEE International Conference on SEMANTIC COMPUTING.

Gittner, Kevin B. M. (Assistant Professor)

Book Chapters

Book, Chapter in Scholarly Book-New (Accepted)

Lahman, M., Gittner, K. (2023). 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*. Invited

Refereed Journal Articles

Journal Article, Academic Journal (Published)

Gittner, K. B., Gittner, L. S., Dennis, J. A., Matheny, L. (2022). VetStar: Justice-Involved Veterans Successful Mental Health Diversion. *Journal of Veteran Studies/Virginia Tech Libraries*, 8(1)(2470-4768), 1-14, ., Acceptance Rate: 69%, https://journal-veterans-studies.org/articles/10.21061/jvs.v8i1.246/#Peer_Review - Refereed

Non-Refereed Journal Articles

Journal Article, Academic Journal (Published)

Gittner, K. B., Ramezani, N., Mobley, K. (2022). Embracing Cross-Loading to Improve Latent Variable Models Fit: A comparison of available options in SAS®, Mplus™, and R™. *SouthEast SAS User Group SESUG 2022(SESUG 2022)*, 1-26, ., https://www.lexjansen.com/sesug/2022/SESUG2022_Paper_169_Final_PDF.pdf No Review

Conference Proceedings

Conference Proceeding (Published)

Gittner, K., Ramezani, N., Mobley, K. (2022). *Embracing cross-loading to improve latent variable models fit: A comparison of exploratory and Bayesian structural equation modeling* (pp. 1-22). Joint Statistical Meeting 2022 annual conference.No Review

Kane, Victor E. (Associate Professor)

Non-Refereed Journal Articles

Journal Article, Academic Journal (Published)

Kane, V. E. (2022). Common Paths for Identifying Lean Six Sigma Improvement Opportunities. *International Journal of Quality and Reliability Management*, 39(8), 2058-2077, ., Impact Factor: 2.768, H index 90, Q1

Matheny, Lauren (Assistant Professor)

Refereed Journal Articles

Journal Article, Academic Journal (Published)

Stake, I., Matheny, L., Comfort, S., Dornan, G., Haytmanek, T., Clanton, T. O. (2023). Outcomes Following Repair of Achilles Midsubstance Tears: Percutaneous Knotless Repair versus Open Repair. *Foot and Ankle International*, ., Impact Factor: 2.7, 3.1 5-yrPeer Review - Refereed

Journal Article, Academic Journal (Published)

Plancher, K. D., Matheny, L., Briggs, K. K., Petterson, S. C. (2022). Reliability and Validity of the Knee Injury and Osteoarthritis Outcome Score in Patients Undergoing Unicompartmental Knee Arthroplasty. *Journal of Arthroplasty*, 22(S0883-5403 (epub ahead of print)), 00475-2, ., Impact Factor: 4.757, [https://www.arthroplastyjournal.org/article/S0883-5403\(22\)00475-2/pdf](https://www.arthroplastyjournal.org/article/S0883-5403(22)00475-2/pdf)Peer Review - Refereed

Journal Article, Academic Journal (Published)

Gittner, K. B., Gittner, L. S., Dennis, J. A., Matheny, L. (2022). VetStar: Justice-Involved Veterans Successful Mental Health Diversion. *Journal of Veteran Studies/Virginia Tech Libraries*, 8(1)(2470-4768), 1-14, ., Acceptance Rate: 69%, <https://journal-veterans-studies.org/articles/10.21061/jvs.v8i1.246/#>Peer Review - Refereed

Other Intellectual Contributions

Published Abstract (Published)

Obey, M., Schafer, K., Matheny, L. M., McAndrew, C., Ricci, W., Backus, J. (Published). *Syndesmotom Suture Button Fixation Results in Higher Tegner Activity Scale Scores when Compared to Screw Fixation: A Multicenter Investigation*. *Foot and Ankle Orthopaedics*. <https://journals.sagepub.com/home/fao>Peer Review - Refereed

Ni, Sherry (Professor)

Book Chapters

Book, Chapter in Scholarly Book-New (Published)

Wang, Y., Ni, S. (2023). A Survey of Machine Learning Methodologies for Loan Evaluation in Peer-to-Peer (P2P) Lending. In Foued Saâdaoui, Yichuan Zhao, Hana Rabbouch (Ed.), *Data Analytics for Management, Banking and Finance*. Springer. Peer Review - Refereed

Conference Proceedings

Conference Proceeding (Published)

Wang, Y., Ni, S., Huang, X. (Published). *Towards Profitability: A Profit-sensitive Multinomial Logistic Regression for Credit Scoring in Peer-to-Peer Lending* (pp. 696-718). Proceedings of the Future Technologies Conference.

Ray, Herman E. (Associate Professor)

Refereed Journal Articles

Journal Article, Professional Journal (Published)

Barnett, K. B., Amason, J., Wagner, D., Ray, H. (Published). Characteristics of Substance Addicted Mothers that predict graduation from the Family Treatment Court. *Journal of Nursing Scholarship*, ., Impact Factor: 3.176 Peer Review - Refereed

Non-Refereed Journal Articles

Journal Article, Academic Journal (Published)

Ndembera, R., Ray, H. E., Shah, L., Rushton, G. T. (Published). Analysis of category level performance on the *Praxis*[®] earth and space science: Content knowledge test: Implications for professional learning. *Journal of Geoscience Education*, 1-14, ., <http://dx.doi.org/10.1080/10899995.2022.2138067>

Journal Article, Academic Journal (Published)

Cortes, K. J., Reid, J. W., Fallin, R., Hao, J., Shah, L., Ray, H. E., Rushton, G. T. (2022). A Longitudinal Study Identifying the Characteristics and Content Knowledge of Those Seeking Certification to Teach Secondary Biology in the United States. *CBE—Life Sciences Education*, 21(4), ar63, ., <https://doi.org/10.1187/cbe.21-08-0220>

Journal Article, Academic Journal (Published)

Zhang, L., Geisler, T., Ray, H. E., Xie, Y. (2022). Improving logistic regression on the imbalanced data by a novel penalized log-likelihood function. *Journal of Applied Statistics*, 49(13), 3257-3277, ., <http://dx.doi.org/10.1080/02664763.2021.1939662>

Journal Article, Academic Journal (Published)

Chhabra, J., Ray, H. E., Derkach, S., Thompson, D., Whyte, W. (2022). Disparities in timely treatment among lung cancer patients. *Journal of Clinical Oncology*, 40(16_suppl), e18515-e18515, ., http://dx.doi.org/10.1200/jco.2022.40.16_suppl.e18515

Other Intellectual Contributions

posted-content (Published)

Ndembera, R., Ray, H. E., Shah, L., Rushton, G. (Published). *Which factors contribute to standardized test scores for prospective general science teachers: An analysis of the Praxis® General Science Content Knowledge Test.* Research Square Platform LLC. <http://dx.doi.org/10.21203/rs.3.rs-2891716/v1>

Taasoobshirazi, Gita (Associate Professor)

Book Chapters

Book, Chapter in Scholarly Book-New (Published)

Johnson, M., Vaughn, A., Jones, S., Herrick, I., Jones, S., Schoepf, S., Taasoobshirazi, G. (2022). Strategies and challenges to teaching for conceptual learning. *In J.S. Vogler & M. Buehl (Eds.). Teaching Learning for Effective Instruction.* American Psychological Association.

Refereed Journal Articles

Journal Article, Academic Journal (Published)

Taasoobshirazi, G., Wagner, M., Brown, A., Copeland, C. (2022). An evaluation of college students' perceptions of statisticians. *Journal of Statistics and Data Science Education*, 30(2), 138-153, ., Impact Factor: 1.07Peer Review - Refereed

Non-Refereed Journal Articles

Journal Article, Academic Journal (Published)

Taasoobshirazi, G., Edwards, O., Eldridge, B. (2023). Stereotype threat and gender differences in Statistics. *Contemporary Mathematics and Science Education*, .

Journal Article, Academic Journal (Published)

Taasoobshirazi, G., Peifer, J. (2022). College Students' Reduced Cognitive Empathy and Increased Anxiety and Depression before and during the COVID-19 Pandemic. *International Journal of Environmental Research and Public Health*, 19(18), 11330, ., Impact Factor: 4.80

Journal Article, Academic Journal (Published)

Peifer, J., Taasoobshirazi, G. (2022). Heightened Cognitive Empathy through Ethnic Identity and Intercultural Competence for Individuals with Historically Marginalized Identities. *International Journal on Social and Education Sciences*, 4(2), 290-306, .

Journal Article, Academic Journal (Published)

Edwards, O., Taasoobshirazi, G. (2022). Investigating the Relationship Among Social Presence, Instructor Support, Expectancy-Value Beliefs, and Engagement in Online Learning. *Internet and Higher Education*, 55, 2-11, ., Impact Factor: 11.36

Journal Article, Academic Journal (Published)

Peifer, J., Bradley, E., Taasoobshirazi, G. (2022). Pilot Testing a Brief Partner-Inclusive Hybrid Intervention for Perinatal Mood and Anxiety Disorders (PMADs). *Frontiers in Psychiatry*, 13, 1-8, ., Impact Factor: 5.44

Journal Article, Academic Journal (Published)

Mobley, K., Taasoobshirazi, G. (2022). Predicting Suicide in Communities: Creating a quantitative measure of suicide risk. *International Journal of Environmental Research and Public Health*, 19(13), 8173, ., Impact Factor: 4.80

Journal Article, Academic Journal (Published)

Fatehi, K., Taasoobshirazi, G., Sanchez-Gutierrez, J. (2022). Toward epistemological identification of the four major mindscape types. *Review of International Business and Strategy*, 32(4), 484-502, ., Impact Factor: 3.04

Journal Article, Academic Journal (Published)

Taasoobshirazi, G., Heddy, B., Danielson, R., Abraham, E., Joji, S. (2022). Understanding Students' Free-Body Diagrams Using the Metarepresentations Survey for Physics. *Journal of Learning Theory and Methodology*, 3(3), 93-101, ., Impact Factor: 4.0, 1000 Chastain Dr.

Journal Article, Academic Journal (Published)

Taasoobshirazi, G., zaman, s., Taasoobshirazi, K. (2022). A Case Report: Antibody Response to 2-Dose Pfizer Vaccine and Johnson & Johnson Vaccine in a Kidney Transplant Patient. *Journal of Vaccines and Vaccination*, 13, 470-474, ., Impact Factor: 6.60

Journal Article, Academic Journal (Accepted)

Peifer, J., Meyer-Lee, E., Taasoobshirazi, G. (2022). Developmental Pathways to Intercultural Competence in College Students. *To appear in Journal of Studies in International Education*, ., Impact Factor: 3.62

Woo, MinJae (Assistant Professor)

Refereed Journal Articles

Journal Article, Academic Journal (Published)

Jung, J., Vey, B., Correa, R., Woo, M., Banerjee, I., Gichoya, J., Trivedi, H. (2023). The EMory BrEast imaging Dataset (EMBED): A Racially Diverse, Granular Dataset of 3.4 Million Screening and Diagnostic Mammographic Images. *Radiology Artificial Intelligence*, ., Impact Factor: 25.0Peer Review - Refereed

Zhang, Xinyan (Assistant Professor)

Refereed Journal Articles

Journal Article, Academic Journal (Published)

Zhang, X., Yi, N. (2022). Analyzing the overall effects of the microbiome abundance data with a Bayesian predictive value approach. *Statistical methods in medical research*, 31(10), 1992-2003, .Peer Review - Refereed

Non-Refereed Journal Articles

Journal Article, Academic Journal (Published)

Yan, D., Zhao, Q., Du, Z., Li, H., Geng, R., Yang, W., Zhang, X., Cao, J., Yi, N., Zhou, J., others (2022). Development and validation of an immune-related gene signature for predicting the radiosensitivity of lower-grade gliomas. *Scientific reports*, 12(1), 1--12, .

Journal Article, Academic Journal (Published)

Tang, Z., Li, H., Liu, S., Shen, J., Bai, L., Zhang, X., Cao, J., Yi, N., Lu, K. (2022). Development and validation of prognostic model for lung adenocarcinoma patients based on m6A methylation related transcriptomics. *Frontiers in oncology*, 2742, .

Journal Article, Academic Journal (Published)

Rochani, H., Samawi, H., Zhang, X. (2022). Quantiles naive, ratio and difference estimators for efficient stratified sampling designs. *Journal of the Korean Statistical Society*, 51(2), 542--567, .

Conference Proceedings

Conference Proceeding (Published)

Sangari, s., Zhang, X. (2022). *Forecasting Hierarchical Time Series*. JSM Proceedings 2022.