

# Intellectual Contributions

Kennesaw State University  
January 1, 2021 - December 31, 2021

## Department of Computer Science

**Aledhari, Mohammed (Assistant Professor)**

### **Refereed Journal Articles**

*Journal Article, Professional Journal (Published)*

Aledhari, M., Di Pierro, M., Hefeida, M., Saeed, F. (Published). A Deep Learning-based Data Minimization Algorithm for Fast and Secure Transfer of Big Genomic Datasets. *IEEE Transactions on Big Data*, .Peer Review - Refereed

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

*Journal Article, Academic Journal (Published)*

Aledhari, M., Razzak, R., Meimandi Parizi, R. (2021). Machine learning for network application security: Empirical evaluation and optimization. *Computers & Electrical Engineering*, 91, 107052, ., <https://www.sciencedirect.com/science/article/pii/S0045790621000677>

*Journal Article, Academic Journal (Published)*

Shahid, O., Nasajpour, M., Pouriye, S., Meimandi Parizi, R., Han, M., Valero, M. A., Li, F., Aledhari, M., Sheng, Q. Z. (2021). Machine learning research towards combating COVID-19: Virus detection, spread prevention, and medical assistance. *Journal of Biomedical Informatics*, 117, 103751, ., <https://www.sciencedirect.com/science/article/pii/S1532046421000800>

*Journal Article, Academic Journal (Published)*

Tariq, M. U., Haseeb, M., Aledhari, M., Razzak, R., Meimandi Parizi, R., Saeed, F. (2021). Methods for Proteogenomics Data Analysis, Challenges, and Scalability Bottlenecks: A Survey. *IEEE Access*, 9, 5497-5516, .

*Journal Article, Academic Journal (Published)*

Shahid, O., Nasajpour, M., Pouriye, S., Parizi, R. M., Han, M., Valero, M. A., Li, F., Aledhari, M., Sheng, Q. Z. (2021). Machine Learning Research Towards Combating COVID-19: Virus Detection, Spread Prevention, and Medical Assistance. *Journal of Biomedical Informatics*, ., Impact Factor: 3.526

### **Conference Proceedings**

*Conference Proceeding (Published)*

Aledhari, M., Razzak, R., Meimandi Parizi, R., Srivastava, G. (2021). Deep Neural Networks for Detecting Real Emotions Using Biofeedback and Voice. In Del Bimbo, Alberto; Cucchiara, Rita; Sclaroff, Stan; Farinella, Giovanni Maria; Mei, Tao; Bertini, Marco; Escalante, Hugo Jair; Vezzani, Roberto (Ed.), *Pattern Recognition. ICPR International Workshops and Challenges* (pp. 302--309). Cham: Springer International Publishing.

*Conference Proceeding (Published)*

Aledhari, M., Razzak, R., Parizi, R., Srivastava, G. (2021). *Multimodal Machine Learning for Pedestrian Detection*. 2021 IEEE 93rd Vehicular Technology Conference (VTC2021-Spring).

*Conference Proceeding (Published)*

Aledhari, M., Razzak, R., Meimandi Parizi, R., Srivastava, G. (2021). Multimodal Machine Learning for Pedestrian Detection. *2021 IEEE 93rd Vehicular Technology Conference (VTC2021-Spring)* (pp. 1-7).

*Conference Proceeding (Published)*

Aledhari, M., Razzak, R., Parizi, R., Srivastava, G. (2021). *Sensor Fusion for Drone Detection*. 2021 IEEE 93rd Vehicular Technology Conference (VTC2021-Spring).

*Conference Proceeding (Published)*

Aledhari, M., Razzak, R., Meimandi Parizi, R., Srivastava, G. (2021). Sensor Fusion for Drone Detection. *2021 IEEE 93rd Vehicular Technology Conference (VTC2021-Spring)* (pp. 1-7).

**Aygun, Ramazan (Associate Professor)**

***Non-Refereed Journal Articles***

*Journal Article, Academic Journal (Published)*

Singhirunnusorn, K., Fahimi, F., Aygun, R. (2021). A single camera 360-degree real time vision-based localization method with application to mobile robot trajectory tracking. *IET Cyber-Systems Robotics*, .

*Journal Article, Academic Journal (Published)*

Tran, T. X., Aygun, R. (2021). WisdomNet: trustable machine learning toward error-free classification. *Neural Computing and Applications*, 33, 2719-2734, .

*Journal Article, Academic Journal (Published)*

Mercan, S., Cebe, M., Aygun, R., Akkaya, K., Toussaint, E., Danko, D. (2021). Blockchain-based video forensics and integrity verification framework for wireless Internet-of-Things devices. *Security and Privacy*, 4(2), e143, .

***Conference Proceedings***

*Conference Proceeding (Published)*

William, F., Zhu, F., Aygun, R., Ponter, M. (2021). *Spectra-based Classification of Audiovisual and Visuospatial Face-name Associative Memories using EEG*. 2021 IEEE International Conference on Bioinformatics and Biomedicine (BIBM).

*Conference Proceeding (Published)*

Flor, E., Aygun, R., Mercan, S., Akkaya, K. (2021). *PRNU-based Source Camera Identification for Multimedia Forensics*. IEEE 22nd International Conference on Information Reuse and Integration for Data Science.

*Conference Proceeding (Accepted)*

William, F., Aygun, R. (in press). *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.

*Conference Proceeding (Accepted)*

Sayenju, S., Aygun, R., Boardman, J., Rathgamage Don, D. P., Zhang, Y., Franks, W., Johnston, S., Lee, G., Sullivan, D., Modgil, G. (in press). *Directional Pairwise Class*

*Confusion Bias and Its Mitigation*. 16th IEEE International Conference on SEMANTIC COMPUTING.

*Conference Proceeding (Submitted)*

Fagbemi, A., Aygun, R., Karakaya, M., Sahin, N. (under review). *Video Alignment of Lecture Notes for Online Education*. IEEE International Conference on Multimedia and Expo.

### **Other Intellectual Contributions**

*Kennesaw State University Internal Document (Published)*

Boyle, T., Aygun, R. (2021). *Kennesaw State University HPC Facilities and Resources*.

### **Bobbie, Patrick (Professor)**

#### **Conference Proceedings**

*Conference Proceeding (Published)*

Suo, K., Shi, Y., Hung, C.-C., Bobbie, P. (2021). *Quantifying Context Switch Overhead of Artificial Intelligence Workloads on the Cloud and Edges*. ACM/SIGAPP Symposium On Applied Computing. <https://dl.acm.org/doi/10.1145/3412841.3441993>Peer Review - Refereed

### **Cetinkaya, Coskun (Professor)**

#### **Conference Proceedings**

*Conference Proceeding (Published)*

Hossain Faruk, m. J., Miner, P., Coughlan, R., Masum, M., Shahriar, H. M., Clincy, V. A., Cetinkaya, C. (2021). *Smart Connected Aircraft: Towards Security, Privacy, and Ethical Hacking* (pp. 6). NY: 14th International Conference on Security of Information and Networks. <https://www.sinconf.org/sin2021/>Peer Review - Refereed

### **Clincy, Victor (Professor)**

#### **Conference Proceedings**

*Conference Proceeding (Published)*

Hossain Faruk, m. J., Miner, P., Coughlan, R., Masum, M., Shahriar, H. M., Clincy, V. A., Cetinkaya, C. (2021). *Smart Connected Aircraft: Towards Security, Privacy, and Ethical Hacking* (pp. 6). NY: 14th International Conference on Security of Information and Networks. <https://www.sinconf.org/sin2021/>Peer Review - Refereed

*Conference Proceeding (Accepted)*

Shivers, R. M., Rahman, M., Hossain Faruk, M. J., Shahriar, H. M., A., Clincy, V. A. (2021). *Ride-Hailing for Autonomous Vehicles: Hyperledger Fabric-Based Secure and Decentralize Blockchain Platform* (pp. 10). IEEE: IEEE Big Data 2021.Editorial Review

### **Garrido, Jose (Professor)**

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

*Journal Article, Academic Journal (Published)*

Valero, M. A., Li, F., Zhao, L., Zhang, C., Garrido, J. M., Han, Z. (Published). Vibration Sensing-Based Human and Infrastructure Safety/Health Monitoring: A Survey. *Digital Signal Processing/elsevier*, ., Impact Factor: 2.871

### **Haddad, Hisham (Professor)**

#### **Refereed Journal Articles**

*Journal Article, Academic Journal (Published)*

Shahriar, H. M., Haddad, H., Farhadi, M. (2021). Assessing HIPAA Compliance of Open Source Electronic Health Record Applications. *International Journal of Information Security and Privacy*, 15(2), 181-195, .Peer Review - Refereed

#### **Conference Proceedings**

*Conference Proceeding (Published)*

Masum, M., Shahriar, H. M., Haddad, H., Hossain Faruk, M. J., Valero, M. A., Khan, M. A. A. H., Rahman, Adnan, M., Cuzzocrea, A., Wu, F. (2021). *Bayesian Hyperparameter Optimization for Deep Neural Network-Based Network Intrusion Detection* (pp. 7). IEEE: IEEE Big Data 2021. <https://bigdataieee.org/BigData2021/>Peer Review - Refereed

*Conference Proceeding (Published)*

Masum, M., Shahriar, H. M., Haddad, H., Song, W. (2021). *A Statistical Summary Analysis of Window-Based Extracted Features for EEG Signal Classification*. Los Alamitos, CA: Conference Publishing Services (CPS). <https://conferences.computer.org/icdh/2021/program/>

### **He, Selena (Associate Professor)**

#### **Refereed Journal Articles**

*Journal Article, Academic Journal (Published)*

Tian, S., He, S., Han, M. (2021). Data-driven Approaches in FinTech: A Survey. *Information Discovery and Delivery*, 49(2), 123-135, ., Impact Factor: 7.462, <https://www.emerald.com/insight/content/doi/10.1108/IDD-06-2020-0062/full/html>Peer Review - Refereed

*Journal Article, Professional Journal (Submitted)*

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

*Journal Article, Professional Journal (Submitted)*

He, S. (under review). An IoT-based Lecture Notes Capture System via Gesture Recognition. *Informatics*, .Peer Review - Refereed

*Journal Article, Professional Journal (Submitted)*

He, S., Peng, H. (under review). A Survey on Deep Learning Techniques for Image and Video Features Aggregation. *IEEE Transactions on Computational Social Systems*, .Peer Review - Refereed

*Journal Article, Professional Journal (Submitted)*

Qu, F., He, S. (under review). From Digitalization of Money to Cryptocurrency: State of the Art. *Futures*, .Peer Review - Refereed

*Journal Article, Professional Journal (Submitted)*

Han, B., He, S. (under review). Fine-grained Customer Review Analysis: A Survey Special issue on Advanced Machine Learning on Cognitive Computing for Human Behavior Analysis. *IEEE Transactions on Computational Social Systems*, .Peer Review - Refereed

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

*Journal Article, Academic Journal (Published)*

Sison, N., Li, L., He, S. (2021). A Configurable Data Preprocessing Framework to Improve Existing Travel Industry Time Series Prediction Models. *IJSE*, .

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

Qu, F., Han, M., Li, L. N., He, S. N. (Revising to Resubmit). From Digitalization of Finance to Cryptocurrency: State of the Art. *Futures/Elsevier*, .

*Journal Article, Academic Journal (In Preparation; Not Yet Submitted)*

Yang, L., Han, M., Li, Z., Pouriyeh, S., He, S. (In Preparation; Not Yet Submitted). Understanding Customer Satisfaction: A Survey on Sentiment, Emotion, and Domain Knowledge.

*Journal Article, In-House Journal (Working Paper)*

Andrade, G., Li, L., Han, M., He, S. (Working Paper). Forecasting America's Domestic Airline Passenger Demand During the Coronavirus Pandemic.

### **Conference Proceedings**

*Conference Proceeding (Published)*

He, S. (2021). *Constructing a React Web Application for College Research Faculty and Students*. National Conferences on Undergraduate Research 2021.

*Conference Proceeding (Published)*

Fei, Z., He, S. (Published). *Robust Efficient Accurate License Plate and Character Detection System Based on Simplified CNN*. National Conference on Undergraduate Research (NCUR).Peer Review - Refereed

*Conference Proceeding (Accepted)*

Damaris Waymond, He, S. (in press). *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).

## **Hoganson, Ken (Professor)**

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

*Journal Article, Academic Journal (Published)*

Hoganson, K. E. (Published). D: TEMP An Embedded Design Tool Targeting Multiprocessor Platforms.

## **Hossain, Mokter (Lecturer)**

### **Conference Proceedings**

*Conference Proceeding (Published)*

Riad, A. K., Shahriar, H. M., Valero, M. A., Hossain, M. (2021). *Cybersecurity Risks and Mitigation Techniques During COVID-19* (pp. 1351-1356). Georgia: 2021 IEEE 45th Annual Computers, Software, and Applications Conference (COMPSAC). Department of Information TechnologyPeer Review - Refereed

## **Hung, Chih-Cheng (Professor)**

### **Refereed Journal Articles**

*Journal Article, Academic Journal (Published)*

Zhuang, Y., Liu, H., Song, E., Ma, G., Xu, X., Hung, C.-C. (2021). 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*, .Peer Review - Refereed

*Journal Article, Academic Journal (Published)*

Liu, S., Bai, X., Fang, M., Li, L., Hung, C.-C. (2021). Mixed Graph Convolution and Residual Transformation Network for Skeleton-based Action Recognition. *Applied Intelligence/Springer*, .Peer Review - Refereed

*Journal Article, Academic Journal (Published)*

Liu, S., Zhang, M., Fang, M., Zhao, J., Hou, K., Hung, C.-C. (2021). Speech emotion recognition based on the transfer learning from FaceNet framework. *The Journal of the Acoustical Society of America*, 149(2), ., <https://doi.org/10.1121/10.0003530>Peer Review - Refereed

*Journal Article, Academic Journal (Published)*

Louati, H., Bechikh, S., Louati, A., Hung, C.-C., Ben Said, L. (2021). Deep convolutional neural network architecture design as a bi-level optimization problem. *Neurocomputing*, 439(2), .Peer Review - Refereed

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

Liu, H., Zhuang, Y., Song, E., Xu, X., Hung, C.-C. (Revising to Resubmit). A Bidirectional Multilayer Contrastive Adaptation Network Based on Unsupervised Domain Adaptation for Unpaired Cross-Modality Medical Image Segmentation. *IEEE/ACM Transactions on Computational Biology and Bioinformatics*, .Peer Review - Refereed

### **Conference Proceedings**

*Conference Proceeding (Published)*

Gardner, N., Yarmohammadtoosky, S., Phan, A., Hung, C.-C. (2021). *ISODS: An ISODATA-Based Initial Centroid Algorithm*. Tokyo: Information.Peer Review - Refereed

*Conference Proceeding (Published)*

Boutaib, S., Elabi, M., Bechikh, S., Hung, C.-C., Ben Said, L. (2021). *Software Anti-patterns Detection under Uncertainty Using a Possibilistic Evolutionary Approach*. Genetic Programming. EuroGP 2021.Peer Review - Refereed

*Conference Proceeding (Published)*

Suo, K., Shi, Y., Hung, C.-C., Bobbie, P. (2021). *Quantifying Context Switch Overhead of Artificial Intelligence Workloads on the Cloud and Edges*. ACM/SIGAPP Symposium On Applied Computing. <https://dl.acm.org/doi/10.1145/3412841.3441993>Peer Review - Refereed

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

### **Refereed Journal Articles**

*Journal Article, Academic Journal (Published)*

Karakaya, M. (2021). Iris-Ocular-Periocular: Towards more accurate Biometrics for Off-angle Images. *Journal of Electronic Imaging*, 30(3), 1-21, .Peer Review - Refereed

*Journal Article, Academic Journal (Published)*

Jalilian, E., Karakaya, M., Uhl, A. (2021). CNN Based Off-angle Iris Segmentation and Recognition. *IET Biometrics*, 10(5), 518-535, .Peer Review - Refereed

### **Conference Proceedings**

*Conference Proceeding (Published)*

Karakaya, M. (2021). *Fragile Bits in Off-angle Iris Recognition*. International Workshop on Biometrics and Forensics (IWBF) 2021.

*Conference Proceeding (Published)*

Elrich, E., Karakaya, M. (2021). *Comparison of Elliptical Unwrapping and Perspective Projection for Off-angle Iris Normalization*. SPIE Defense and Commercial Sensing Conference.

*Conference Proceeding (Accepted)*

Jalilian, E., Wimmer, G., Karakaya, M., Uhl, A. (in press). *DEEP LEARNING BASED OFF-ANGLE IRIS RECOGNITION*. IEEE International Conference on Acoustics, Speech, & Signal Processing (ICASSP).Peer Review - Refereed

*Conference Proceeding (Submitted)*

Fagbemi, A., Aygun, R., Karakaya, M., Sahin, N. (under review). *Video Alignment of Lecture Notes for Online Education*. IEEE International Conference on Multimedia and Expo.

*Conference Proceeding (Submitted)*

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

*Conference Proceeding (Submitted)*

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

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

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

*Journal Article, Academic Journal (Published)*

Khan, Md Abdullah Al Hafiz, Roy, N., Rallapalli, S., Bency, A. J., ARL, K. C., Urgaonkar, R., Manjunath, B. (Published). IoTDI 2018.

*Journal Article, Academic Journal (Published)*

Alam, M. A. U., Aljubayrin, S., Barron, D. L., Chatzimilioudis, G., Cici, B., Civitarese, G., Dai, C., Gid'ofalvi, Gy'oz'o, Gong, Z., Hossain, H. S., others (Published). MDM 2016 External Reviewers.

*Journal Article, Academic Journal (Published)*

Chakma, A., Faridee, A. Z. M., Khan, Md Abdullah Al Hafiz, Roy, N. (2021). Activity recognition in wearables using adversarial multi-source domain adaptation. *Smart Health*, 19, 100174, .

### **Conference Proceedings**

#### *Conference Proceeding (Published)*

Masum, M., Shahriar, H. M., Haddad, H., Hossain Faruk, M. J., Valero, M. A., Khan, M. A. A. H., Rahman, Adnan, M., Cuzzocrea, A., Wu, F. (2021). *Bayesian Hyperparameter Optimization for Deep Neural Network-Based Network Intrusion Detection* (pp. 7). IEEE: IEEE Big Data 2021. [https://bigdataieee.org/BigData2021/Peer Review - Refereed](https://bigdataieee.org/BigData2021/Peer%20Review%20-%20Refereed)

#### *Conference Proceeding (Published)*

Hossain Faruk, M. J., Shahriar, H. M., Valero, M. A., Barsha, F., Sobhan, S., Khan, M. A. A. H., Whitman, M., Cuzzocrea, A., Lo, D. C.-T., Rahman, A., Wu, F. (2021). *Malware Detection and Prevention using Artificial Intelligence Techniques* (pp. 9). IEEE: IEEE Big Data 2021. Peer Review - Refereed

### **Other Intellectual Contributions**

#### *Published Abstract (Accepted)*

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

#### *Published Abstract (Accepted)*

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

#### *Published Abstract (Accepted)*

Khan, M. A. A. H. (in press). *Brain-to-text communication through a non-invasive BCI*. National Conferences on Undergraduate Research.

## **Lee, Ahyoung (Assistant Professor)**

### **Book Chapters**

#### *Book, Chapter in Scholarly Book-New (Not Accepted)*

Lee, A. (Not Accepted). An Efficient Mobile Healthcare Management System for Next-Generation IoT-enabled Healthcare Infrastructures. *Internet of Things: Business Principles and Applications* (Anthem Press). Anthem Press.

### **Refereed Journal Articles**

#### *Journal Article, Professional Journal (Published)*

Zefuack, V., Kim, D., Seo, D., Lee, A. (2021). An Unsupervised Anomaly Detection Framework for Detecting Anomalies in Real Time through Network System's Log Files Analysis. *High-Confidence Computing*, ., <https://doi.org/10.1016/j.hcc.2021.100030> Peer Review - Refereed

#### *Journal Article, Professional Journal (Published)*

Lee, S., Rim, B., Jou, S.-S., Gil, H.-W., Jia, X., Lee, A., Hong, M. (2021). Deep-learning based coronary artery calcium detection from 2 CT image. *Journal of Sensors*, ., <https://doi.org/10.3390/s21217059> Peer Review - Refereed



*Journal Article, Professional Journal (Published)*

Rim, B., Lee, A., Hong, M. (2021). Semantic Segmentation of Large-scale Outdoor Point Clouds by Encoder-Decoder shared MLPs with Multiple Losses. *Journal of Remote Sensing*, ., <https://doi.org/10.3390/rs13163121>Peer Review - Refereed

*Journal Article, Professional Journal (Published)*

Lagabka, P. C., Lee, A. (2021). Seamless Communication Techniques in Mobile Cloud Computing: A Survey. *Journal of International Telecommunication Union (ITU)*, ., <https://doi.org/10.52953/XLEJ8917>Peer Review - Refereed

*Journal Article, Professional Journal (Published)*

Rim, B., Lee, S., Lee, A., Gil, H.-W., Hong, M. (2021). Semantic Cardiac Segmentation in Chest CT images using K-Means Clustering and Mathematical Morphology Method. *Journal of Sensors*, ., <https://doi.org/10.3390/s21082675>Peer Review - Refereed

*Journal Article, Professional Journal (Published)*

Sharma, J., Kim, D., Lee, A., Seo, D. (2021). On Differential Privacy based Framework for Enhancing User Data Privacy in Mobile Edge Computing Environment. *IEEE Access*, ., 10.1109/ACCESS.2021.3063603Peer Review - Refereed

### **Conference Proceedings**

*Conference Proceeding (Published)*

Lee, A., Das, R. K., Ma, J., Hong, M. (2021). *Hybrid Mobile Cloud Computing for Healthcare Applications*. KSII The 13th International Conference on Internet (ICONI 2021). <http://www.iconi.org/portal/contents.do?menuNo=100274>Peer Review - Refereed

*Conference Proceeding (Published)*

Suo, K., Shi, Y., Lee, A., Baidya, S. (2021). *Characterizing Networking Performance and Interrupt Overhead of Container Overlay Networks*. Jacksonville, Alabama: ACM Southeast (ACMSE) conference. <https://dl.acm.org/doi/10.1145/3409334.3452040>Peer Review - Refereed

*Conference Proceeding (Published)*

Sharma, J., Kim, D., Lee, A., Seo, D. (2021). *Differential Privacy using Fuzzy Convolution Neural Network (DP-FCNN) with Laplace Mechanism and Authenticated Access in Edge Computing*. International Conference on Ubiquitous Information Management and Communication (IEEE IMCOM 2021). 10.1109/IMCOM51814.2021.9377383Peer Review - Refereed

*Conference Proceeding (Accepted)*

Le, L., Nguyen, T., Lee, A., Dumba, B. (in press). *Entanglement Routing For Quantum Networks: A Deep Reinforcement Learning Approach*. IEEE International Conference on Communications (ICC 2022). <https://icc2022.ieee-icc.org/>Peer Review - Refereed

*Conference Proceeding (Accepted)*

Padidem, P., Lee, A. (in press). *Studying Offloading Optimization for Energy–Latency Tradeoff With Collaborative Edge Computing*. IMCOM 2022. <http://www.imcom.org/>Peer Review - Refereed

*Conference Proceeding (Revising to Resubmit)*

Mhatre, J., Lee, A., Wang, P. (Revising to Resubmit). *Latency Optimized Dynamic Offloading Scheme in Mobile Edge Networks: A Multi-Period Reinforcement Learning Approach*. IEEE Global Communications Conference (GLOBECOM 2022). <https://icc2022.ieee-icc.org/>Peer Review - Refereed

**Lee, Seokjun (Lecturer)**

**Refereed Journal Articles**

*Journal Article, Professional Journal (Published)*

Kim, H., Kim, S., Shin, Y., Jo, W., Lee, S., Shon, T. (2021). Ext4 and XFS File System Forensic Framework Based on TSK. *Electronics/MDPI*, ., <https://www.mdpi.com/2079-9292/10/18/2310>Peer Review - Refereed

**Lo, Dan (Professor)**

**Conference Proceedings**

*Conference Proceeding (Published)*

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 (Published)*

Hossain Faruk, M. J., Shahriar, H. M., Valero, M. A., Barsha, F., Sobhan, S., Khan, M. A. A. H., Whitman, M., Cuzzocrea, A., Lo, D. C.-T., Rahman, A., Wu, F. (2021). *Malware Detection and Prevention using Artificial Intelligence Techniques* (pp. 9). IEEE: IEEE Big Data 2021.Peer Review - Refereed

*Conference Proceeding (Published)*

Lo, D. C.-T., Lawler, B. R. (2021). *A Study on Students' Views Toward K-12 Computer Science Teaching Career* (pp. 4). 2021 ACM Southeast Conference.Peer Review - Refereed

*Conference Proceeding (Published)*

Gardner, C., Lo, D. C.-T. (2021). *PCA Embedded Random Forest* (pp. 6). IEEE Southeast Conference (IEEE Southeastcon 2021).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

**Nguyen, Tu (Assistant Professor)**

**Books**

*Book, Scholarly-New (Published)*

Nguyen, T. (2021). *Advances in Parallel Computing Technologies and Applications* (1st ed., vol. 40). IOS Press.

## **Non-Refereed Journal Articles**

*Journal Article, Academic Journal (Published)*

Nguyen, T. (2021). 3D Localization and Error Minimization in Underwater Sensor Networks. *ACM Transactions on Sensor Networks*, .

*Journal Article, Academic Journal (Published)*

Nguyen, T. (2021). A Collaborative Approach to Early Detection of IoT Botnet. *Computers and Electrical Engineering*, .

*Journal Article, Academic Journal (Published)*

Nguyen, T. (2021). A comprehensive E-commerce customer behavior analysis using convolutional methods. *Computers and Electrical Engineering*, 96, 107541, ., <https://www.sciencedirect.com/science/article/pii/S0045790621004869>

*Journal Article, Academic Journal (Published)*

Nguyen, T. (2021). A Fuzzy Association Rules Mining Algorithm with Fuzzy Partitioning Optimization for Intelligent Decision Systems. *International Journal of Fuzzy Systems*, .

*Journal Article, Academic Journal (Published)*

Nguyen, T. (2021). A Measurement Approach Using Smart-IoT Based Architecture for Detecting the COVID-19. *Neural Processing Letters*, .

*Journal Article, Academic Journal (Published)*

Nguyen, T. (2021). A Novel Approach for Pivot-based Sensor Fusion of Small Satellites. *Physical Communication*, 45, 101261, ., <https://www.sciencedirect.com/science/article/pii/S1874490720303384>

*Journal Article, Academic Journal (Published)*

Nguyen, T. (2021). A Vehicle-Consensus Information Exchange Scheme for Traffic Management in Vehicular Ad-Hoc Networks. *IEEE Transactions on Intelligent Transportation Systems*, .

*Journal Article, Academic Journal (Published)*

Nguyen, T., Le, L. (2021). An Efficient Hybrid Webshell Detection Method for Webserver of Marine Transportation Systems. *IEEE Transactions on Intelligent Transportation Systems*, 1-13, .

*Journal Article, Academic Journal (Published)*

Nguyen, T. (2021). Bi-GISIS KE: Modified key exchange protocol with reusable keys for IoT security. *Journal of Information Security and Applications*, 58, 102788, ., <https://www.sciencedirect.com/science/article/pii/S2214212621000338>

*Journal Article, Academic Journal (Published)*

Nguyen, T. (2021). Deep Learning-based Concurrent Resource Allocation for Enhancing Service Response in Secure 6G Network-in-Box Users using IIoT. *IEEE Internet of Things Journal*, 1-1, .

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*Journal Article, Academic Journal (Published)*

Nguyen, T. (2021). Hybrid Cache Management in IoT-based Named Data Networking. *IEEE Internet of Things Journal*, 1-1, .

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*Journal Article, Academic Journal (Published)*

Nguyen, T. (2021). Learning-Based Resource Allocation for Backscatter-Aided Vehicular Networks. *IEEE Transactions on Intelligent Transportation Systems*, 1-15, .

*Journal Article, Academic Journal (Published)*

Nguyen, T. (2021). Lightweight batch authentication and privacy-preserving scheme for online education system. *Computers and Electrical Engineering*, 96, 107532, ., <https://www.sciencedirect.com/science/article/pii/S0045790621004778>

*Journal Article, Academic Journal (Published)*

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*Journal Article, Academic Journal (Published)*

Nguyen, T. (2021). Multimodal sentimental analysis for social media applications: A comprehensive review. *WIREs Data Mining and Knowledge Discovery*, 11(5), e1415, ., <https://wires.onlinelibrary.wiley.com/doi/abs/10.1002/widm.1415>

*Journal Article, Academic Journal (Published)*

Nguyen, T. (2021). Polynomial Computation Using Unipolar Stochastic Logic and Correlation Technique. *IEEE Transactions on Computers*, 1-1, .

*Journal Article, Academic Journal (Published)*

Hsu (2021). Secure Localization Algorithms Against Localization Attacks in Wireless Sensor Networks. *Wireless Personal Communications*, .

*Journal Article, Academic Journal (Published)*

Nguyen, T. (2021). Smart Grid Vulnerability and Defense Analysis Under Cascading Failure Attacks. *IEEE Transactions on Power Delivery*, 36(4), 2264-2273, .

*Journal Article, Academic Journal (Published)*

Nguyen, T. (2021). The linguistic summarization and the interpretability, scalability of fuzzy representations of multilevel semantic structures of word-domains. *Microprocessors and Microsystems*, 81, 103641, ., <https://www.sciencedirect.com/science/article/pii/S0141933120307882>

*Journal Article, Academic Journal (Published)*

Nguyen, T. (2021). Towards sustainable energy efficient routing for dynamic ad-hoc communications in smart cities. *Measurement*, .

*Journal Article, Academic Journal (Published)*

Nguyen, T. (2021). Mobile Crowd-Sensing Applications: Data Redundancies, Challenges, and Solutions. *ACM Trans. Internet Technol.*, 22(2), ., <https://doi.org/10.1145/3431502>

### **Conference Proceedings**

*Conference Proceeding (Published)*

Le, L., Xie, Y., Chakravarty, S., Hales, M. E., Johnson II, J. D., Nguyen, T. (2021). Analysis of Students' Concentration Levels for Online Learning Using Webcam Feeds. No. IEEE International Conference on Big Data.

*Conference Proceeding (Published)*

Nguyen, T. (2021). Enforcing Resource Allocation and VNF Embedding in RAN Slicing. *The 2021 IEEE Global Communications Conference (GLOBECOM)*.

*Conference Proceeding (Published)*

Nguyen, T. (2021). Minimizing Latency for Multiple-Type Data Aggregation in Wireless Sensor Networks. *2021 IEEE Wireless Communications and Networking Conference (WCNC)* (pp. 1-6).

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

#### **Refereed Journal Articles**

*Journal Article, Academic Journal (Published)*

Noh, J., Kavuluru, R. (2021). Improved biomedical word embeddings in the transformer era. *Journal of Biomedical Informatics*, 120, ., Acceptance Rate: 15%, Impact Factor: 6.317Editorial Review

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

*Journal Article, Academic Journal (Published)*

Kavuluru, R., Noh, J., Rose, S. W. (2021). Twitter Discourse on Nicotine as Potential Prophylactic or Therapeutic for COVID-19. *Journal of Drug Policy*, ., Impact Factor: 5.009

#### **Conference Proceedings**

*Conference Proceeding (Published)*

Noh, J., Kavuluru, R. (2021). *Joint learning for biomedical NER and entity normalization: encoding schemes, counterfactual examples, and zero-shot evaluation* (55th ed.). The

**North, Sarah (Senior Lecturer)**

**Refereed Journal Articles**

*Journal Article, Academic Journal (Published)*

North, S. M., North, M., Garofalo, D., Prajapati, D. (2021). The Effects of Mixed Reality Immersion on Users' Performance and Perception of Multitasking While Performing Concurrent Real World Tasks. *Journal of Consortium for Computing Sciences in Colleges/ACM*, 36(8), 73-88, ..  
<http://www.csc.org/publications/journals/NE2021.pdf#page=73> Peer Review - Refereed

**Shaw, Alan (Assistant Professor)**

**Conference Proceedings**

*Conference Proceeding (Published)*

Shaw, A., Lawler, B., Muralidhar, D., Crombie, W. (2021). *Supporting Orality and Computational Thinking in Mathematics* (pp. 10). Mathematics Education and Society Conference 11. Peer Review - Refereed

**Shi, Yong (Associate Professor)**

**Conference Proceedings**

*Conference Proceeding (Published)*

Desai, M. G., Shi, Y., Suo, K. (2021). *A Hybrid Approach for IoT Botnet Attack Detection*. Vancouver, BC: 2021 IEEE 12th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON). <https://ieeexplore.ieee.org/document/9623102>

*Conference Proceeding (Published)*

Banka, K., Suo, K., Shi, Y., Baidya, S. (2021). *A Study of State-of-the-Art Energy Saving on Edges*. Jacksonville, Alabama: ACM Southeast conference. <https://dl.acm.org/doi/10.1145/3409334.3452079> Peer Review - Refereed

*Conference Proceeding (Published)*

Duchatellier, J., Holmes, T., Suo, K., Shi, Y. (2021). *An Empirical Study of Thermal Attacks on Edge Platforms*. Jacksonville, Alabama: ACM Southeast conference. <https://dl.acm.org/doi/10.1145/3409334.3452071> Peer Review - Refereed

*Conference Proceeding (Published)*

Suo, K., Shi, Y., Lee, A., Baidya, S. (2021). *Characterizing Networking Performance and Interrupt Overhead of Container Overlay Networks*. Jacksonville, Alabama: ACM Southeast (ACMSE) conference. <https://dl.acm.org/doi/10.1145/3409334.3452040> Peer Review - Refereed

*Conference Proceeding (Published)*

Mohandoss, D. P., Shi, Y., Suo, K. (2021). *Outlier Prediction Using Random Forest Classifier*. IEEE 11th Annual Computing and Communication Workshop and Conference (IEEE CCWC 2021).

*Conference Proceeding (Published)*

Shi, Y., Suo, K., Hodge, J., Mohandoss, D. P., Kemp, S. (2021). *Towards Optimizing Task Scheduling Process in Cloud Environment*. IEEE 11th Annual Computing and Communication Workshop and Conference (IEEE CCWC 2021).

*Conference Proceeding (Published)*

Suo, K., Shi, Y., Hung, C.-C., Bobbie, P. (2021). *Quantifying Context Switch Overhead of Artificial Intelligence Workloads on the Cloud and Edges*. ACM/SIGAPP Symposium On Applied Computing. <https://dl.acm.org/doi/10.1145/3412841.3441993>Peer Review - Refereed

*Conference Proceeding (Not Accepted)*

Suo, K., Shi, Y., Cheng, D., Chen, W. (Not Accepted). *Tackling Cold Start of Serverless Applications by Efficient and Adaptive Container Runtime Reusing*. Washington DC: 41st IEEE International Conference on Distributed Computing Systems. <https://icdcs2021.us/>

**Son, Junggab (Assistant Professor)**

***Refereed Journal Articles***

*Journal Article, Academic Journal (Published)*

Cranfill, L., Kim, J., Lee, H., Youdom Kemmoe, V., Cho, S., Son, J. (2021). Efficient yet Robust Privacy Preservation for MPEG-DASH-Based Video Streaming. *Security and Communication Networks*, 2021(4702469), 1-14, ., Acceptance Rate: 31%, Impact Factor: 1.791, <https://www.hindawi.com/journals/scn/2021/4702469/>Peer Review - Refereed

*Journal Article, Academic Journal (Published)*

Mallavarapu, T., Cranfill, L., Kim, E. H., Parizi, R. M., Morris, J., Son, J. (2021). A federated approach for fine-grained classification of fashion apparel. *Machine Learning with Applications*, 6(15), 1-12, ., <https://www.sciencedirect.com/science/article/pii/S2666827021000591>Peer Review - Refereed

*Journal Article, Academic Journal (Published)*

Lee, H., Kim, J., Ahn, S., Hussain, R., Cho, S., Son, J. (2021). Digestive neural networks: A novel defense strategy against inference attacks in federated learning. *Computers & Security*, 109(102378), 1-20, ., Impact Factor: 4.438, <https://www.sciencedirect.com/science/article/pii/S0167404821002029?via%3Dihub>Peer Review - Refereed

*Journal Article, Academic Journal (Published)*

Suh, H.-J., Son, J., Kang, K. (2021). Trustworthiness in Mobile Cyber-Physical Systems. *Applied Sciences*, 11(4), 1-5, ., Impact Factor: 2.679, <https://www.mdpi.com/2076-3417/11/4/1676/htm>Editorial Review

***Conference Proceedings***

*Conference Proceeding (Published)*

Suo, K., Son, J., Cheng, D., Chen, W., Baidya, S. (2021). *Tackling Cold Start of Serverless Applications by Efficient and Adaptive Container Runtime Reusing*. Portland, OR: IEEE International Conference on Cluster. <https://clustercomp.org/2021/>Peer Review - Refereed

*Conference Proceeding (Published)*

Lee, H., Kim, J., Hussain, R., Cho, S., Son, J. (2021). *On Defensive Neural Networks Against Inference Attack in Federated Learning* (pp. 1-6). IEEE International Conference on Communications (ICC 2021). <https://ieeexplore.ieee.org/abstract/document/9500936>Peer Review - Refereed

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

### **Refereed Journal Articles**

*Journal Article, Academic Journal (Published)*

Constant, P. L., Lee, A., Suo, K., Kim, D. (2021). Seamless Communication Techniques in Mobile Cloud Computing: A Survey. *Journal of International Telecommunication Union*, .Peer Review - Refereed

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

*Journal Article, Academic Journal (Submitted)*

Wang, K., Wu, S., Suo, K., Liu, Y., Jin, H. (under review). Adapt Burstable Containers to Variable CPU Resources. *IEEE Transactions on Computers*, ., Acceptance Rate: 20%

### **Conference Proceedings**

*Conference Proceeding (Published)*

Desai, M. G., Shi, Y., Suo, K. (2021). *A Hybrid Approach for IoT Botnet Attack Detection*. Vancouver, BC: 2021 IEEE 12th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON). <https://ieeexplore.ieee.org/document/9623102>

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Suo, K., Lei, J., Munikar, M., Lu, H., Rao, J. (2021). *Parallelizing Packet Processing in Container Overlay Networks*. Edinburgh, Scotland: ACM European Conference on Computer Systems. <https://dl.acm.org/doi/10.1145/3447786.3456241>Peer Review - Refereed



*Conference Proceeding (Published)*

Mohandoss, D. P., Shi, Y., Suo, K. (2021). *Outlier Prediction Using Random Forest Classifier*. IEEE 11th Annual Computing and Communication Workshop and Conference (IEEE CCWC 2021).

*Conference Proceeding (Published)*

Shi, Y., Suo, K., Hodge, J., Mohandoss, D. P., Kemp, S. (2021). *Towards Optimizing Task Scheduling Process in Cloud Environment*. IEEE 11th Annual Computing and Communication Workshop and Conference (IEEE CCWC 2021).Peer Review - Refereed

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Shi, Y., Suo, K., Hodge, J., Mohandoss, D. P., Kemp, S. (2021). *Towards Optimizing Task Scheduling Process in Cloud Environment*. IEEE 11th Annual Computing and Communication Workshop and Conference (IEEE CCWC 2021).

*Conference Proceeding (Published)*

Suo, K., Shi, Y., Hung, C.-C., Bobbie, P. (2021). *Quantifying Context Switch Overhead of Artificial Intelligence Workloads on the Cloud and Edges*. ACM/SIGAPP Symposium On Applied Computing. <https://dl.acm.org/doi/10.1145/3412841.3441993>Peer Review - Refereed

*Conference Proceeding (Published)*

Mohandoss, D., Shi, Y., Suo, K. (2021). *Outlier Prediction Using Random Forest Classifier*. IEEE 11th Annual Computing and Communication Workshop and Conference. <https://ieeexplore.ieee.org/abstract/document/9376077>Peer Review - Refereed

*Conference Proceeding (Not Accepted)*

Suo, K., Shi, Y., Cheng, D., Chen, W. (Not Accepted). *Tackling Cold Start of Serverless Applications by Efficient and Adaptive Container Runtime Reusing*. Washington DC: 41st IEEE International Conference on Distributed Computing Systems. <https://icdcs2021.us/>

*Conference Proceeding (Submitted)*

Wang, K., Wu, S., Suo, K., Liu, Y., Jin, H. (under review). *Characterizing and Optimizing Kernel Resource Isolation for Container-based Virtualization*. International Parallel and Distributed Processing Symposium. <https://www.ipdps.org/>

## Department of Information Technology

**Halstead-Nussloch, R (Professor)**

### **Book Chapters**

*Book, Chapter in Scholarly Book-New (Accepted)*

Halstead-Nussloch, R., Rutherford, R. (2021). Tips for Using Open Educational Resources to Reduce Textbook Costs in Computing and IT Courses. *Kacprzyk, J. (Editor) Advances in Intelligent Systems and Computing. Springer 2021.* Springer.

**Le, Linh (Assistant Professor)**

### **Refereed Journal Articles**

*Journal Article, Academic Journal (Accepted)*

Le, L., Nguyen, T. (in press). DQRA: Deep Quantum Routing Agent for Entanglement Routing in Quantum Networks. *To appear in IEEE Transactions on Quantum Engineering*, .Peer Review - Refereed

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

*Journal Article, Academic Journal (Published)*

Nguyen, T., Le, L. (2021). An Efficient Hybrid Webshell Detection Method for Webserver of Marine Transportation Systems. *IEEE Transactions on Intelligent Transportation Systems*, 1-13, .

*Journal Article, Academic Journal (Published)*

Le, L., Xie, Y., Raghavan, V. V. (2021). KNN Loss and Deep KNN. *Fundamenta Informaticae, IOS Press, 182(2)*, 95-110, ., Impact Factor: 1.333, <https://content.iospress.com/articles/fundamenta-informaticae/fi2068>

### **Conference Proceedings**

*Conference Proceeding (Published)*

Le, L., Xie, Y., Chakravarty, S., Hales, M. E., Johnson II, J. D., Nguyen, T. (2021). Analysis of Students' Concentration Levels for Online Learning Using Webcam Feeds. *No. IEEE International Conference on Big Data*.

*Conference Proceeding (Published)*

Chakravarty, S., Xie, Y., Le, L., Hales, M. E., Johnson II, J. D. (2021). In Mufti Mahmud, M Shamim Kaiser, Stefano Vassanelli, Qionghai Dai, Ning Zhong (Ed.), *Comparison between Active and Passive Attention Using EEG Waves and Deep Neural Network* (vol. 12960, pp. 287-298). *Brain Informatics*.Peer Review - Refereed

*Conference Proceeding (Published)*

Le, L., Mallapragada, S., Hebbar, S., Guerra-Zubiaga, D. A. (2021). *One-Class Self-Attention for Anomaly Detection in Manufacturing Lines* ((Intelligent System Conference (IntelliSys 2021)), Acceptance Email Notification ed.). *International Joint Conference on Neural Networks*. <https://saiconference.com/IntelliSys>

*Conference Proceeding (Accepted)*

Le, L., Nguyen, T. (in press). *Entanglement Routing for Quantum Networks: A Deep Reinforcement Learning Approach*. IEEE: In the 2022 IEEE International Conference on Communications. Peer Review - Refereed

*Conference Proceeding (Accepted)*

Li, L., Peltsverger, S. B., Zheng, G., Le, L., Handlin, M. (2021). *Retrieving and Classifying LinkedIn Job Titles for Alumni Career Analysis*. ACM SIGITE 2021.

## Li, Lei (Professor)

### Book Chapters

*Book, Chapter in Scholarly Book-New (Accepted)*

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

*Book, Chapter in Scholarly Book-New (Working Paper)*

Zheng, J., Li, Z., Li, L. (Working Paper). Go beyond the Technology – Emphasizing Soft Skills in IT/IS Capstone Classes. *the Handbook of Teaching and Learning in IS*. MARIETTA: 1100 S MARIETTA PKWY SE

### Non-Refereed Journal Articles

*Journal Article, Academic Journal (Accepted)*

Zhao, L., Valero, M. A., Pouriye, S., Li, L., Sheng, Q. (in press). Communication-Efficient Semi-Hierarchical Federated Analytics in IoT Networks. *To appear in IEEE Internet of Things Journal*, ., Impact Factor: 9.936

### Conference Proceedings

*Conference Proceeding (Published)*

Valero, M. A., Li, L., Shahriar, H. M., Sobhan, S., Handlin, M., Zhang, J. (2021). *Emotional Analysis of Learning Cybersecurity with Games* (pp. 6). IEEE International Conference on Intelligence and Security Informatics (ISI). Peer Review - Refereed

*Conference Proceeding (Published)*

Shahriar, H. M., Li, L., Shahriar, H. M., Rutherford, J. (2021). *We Did It! So Can You! Creating "No-Textbook" IT Degrees* (pp. 151-152). Proceedings of the 22st Annual Conference on Information Technology Education.

<https://dl.acm.org/doi/abs/10.1145/3450329.3476870> Peer Review - Refereed

*Conference Proceeding (Published)*

Li, L., She, Y., Han, M. (2021). *Perceptions of Information Systems Security Compliance: An Empirical Study in Higher Education Setting*. Hawaii International Conference on System Sciences (HICSS) - 54.

*Conference Proceeding (Published)*

Williams, J., King, J., Smith, B., Pouriye, S., Shahriar, H. M., Li, L. (2021). *Phishing Prevention Using Defense in Depth*. Las Vegas: CSCE'20 - The 2020 World Congress in Computer Science, Computer Engineering, & Applied Computing.

<https://americancse.org/events/csce2020/program>

*Conference Proceeding (Accepted)*

Li, L., Peltsverger, S. B., Zheng, G., Le, L., Handlin, M. (2021). *Retrieving and Classifying LinkedIn Job Titles for Alumni Career Analysis*. ACM SIGITE 2021.

*Conference Proceeding (Accepted)*

McOker, C., Handlin, M., Li, L., Shahriar, H. M., Zhao, L. (2021). *An Architecture for Federated Learning Enabled Collaborative Intrusion Detection System*. AMCIS 2021. Peer Review - Refereed

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

### **Book Chapters**

*Book, Chapter in Scholarly Book-New (Published)*

Li, J., Yang, M., Xie, Y., Li, Z. (2021). A CU Depth Prediction Model Based on Pre-trained Convolutional Neural Network for HEVC Intra Encoding Complexity Reduction. In George A. Tsihrintzis, Maria Virvou, Lakhmi C. Jain (Ed.), *Book: "Advances in Machine Learning/Deep Learning-based Technologies"* (vol. 2). Springer.

*Book, Chapter in Scholarly Book-New (Working Paper)*

Zheng, J., Li, Z., Li, L. (Working Paper). Go beyond the Technology – Emphasizing Soft Skills in IT/IS Capstone Classes. *the Handbook of Teaching and Learning in IS*. MARIETTA: 1100 S MARIETTA PKWY SE

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

*Journal Article, Academic Journal (In Preparation; Not Yet Submitted)*

Yang, L., Han, M., Li, Z., Pouriyeh, S., He, S. (In Preparation; Not Yet Submitted). Understanding Customer Satisfaction: A Survey on Sentiment, Emotion, and Domain Knowledge.

### **Conference Proceedings**

*Conference Proceeding (Published)*

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

*Conference Proceeding (Published)*

Li, Z., Li, J., Han, M., Yang, M. (2021). *A Computer-Vision Based Engagement Evaluation System for More Effective Learning Design*. SIGITE. Peer Review - Refereed

*Conference Proceeding (Accepted)*

Kuntla, G. S., Tian, S., Li, Z. (2021). *Security and Privacy in Machine Learning: A Survey*. 61st IACIS Annual Conference. Peer Review - Refereed

*Conference Proceeding (Submitted)*

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

### **Other Intellectual Contributions**

*Policy Brief/White Paper (Submitted)*

Tatum, D., Asgill, A., Li, Z., Okhio, C., Vande Ven, S. (under review). Kennesaw State University, College of Teaching and Learning. No Review

**Peltsverger, Svetlana (Professor)**

**Conference Proceedings**

*Conference Proceeding (Accepted)*

Li, L., Peltsverger, S. B., Zheng, G., Le, L., Handlin, M. (2021). *Retrieving and Classifying LinkedIn Job Titles for Alumni Career Analysis*. ACM SIGITE 2021.

**Pouriyeh, Seyedamin (Assistant Professor)**

**Book Chapters**

*Book, Chapter in Scholarly Book-New (Accepted)*

Nasajpour, M., Pouriyeh, S., Meimandi Parizi, R., Zhao, L., Li, L. (in press). *IoT 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)*

Dorodchi, M., Dehbozorgi, N., Fallahian, M., Pouriyeh, S. (2021). Teaching Software Engineering using Abstraction through Modeling. *INFORMATICS IN EDUCATION Journal*, . Peer Review - Refereed

**Non-Refereed Journal Articles**

*Journal Article, Academic Journal (Published)*

Shahid, O., Nasajpour, M., Pouriyeh, S., Meimandi Parizi, R., Han, M., Valero, M. A., Li, F., Aledhari, M., Sheng, Q. Z. (2021). Machine learning research towards combating COVID-19: Virus detection, spread prevention, and medical assistance. *Journal of Biomedical Informatics*, 117, 103751, ., <https://www.sciencedirect.com/science/article/pii/S1532046421000800>

*Journal Article, Academic Journal (Published)*

Mothukuri, V., Meimandi Parizi, R., Pouriyeh, S., Dehghantanha, A., Choo, K.-K. R. (2021). FabricFL: Blockchain-in-the-Loop Federated Learning for Trusted Decentralized Systems. *IEEE Systems Journal*, 1-12, .

*Journal Article, Academic Journal (Published)*

Chowdary Attota, D., Mothukuri, V., Meimandi Parizi, R., Pouriyeh, S. (2021). An Ensemble Multi-View Federated Learning Intrusion Detection for IoT. *IEEE Access Journal*, ., Impact Factor: 3.367

*Journal Article, Academic Journal (Published)*

Mothukuri, V., Khare, P., Meimandi Parizi, R., Pouriyeh, S., Dehghantanha, A., Srivastava, G. (2021). Federated Learning-based Anomaly Detection for IoT Security Attacks. *IEEE Internet of Things Journal*, ., Impact Factor: 9.936

*Journal Article, Academic Journal (Published)*

Shahid, O., Nasajpour, M., Pouriyeh, S., Parizi, R. M., Han, M., Valero, M. A., Li, F., Aledhari, M., Sheng, Q. Z. (2021). Machine Learning Research Towards Combating COVID-19: Virus Detection, Spread Prevention, and Medical Assistance. *Journal of Biomedical Informatics*, ., Impact Factor: 3.526

*Journal Article, Academic Journal (Accepted)*

Zhao, L., Valero, M. A., Pouriyeh, S., Li, L., Sheng, Q. (in press). Communication-Efficient Semi-Hierarchical Federated Analytics in IoT Networks. *To appear in IEEE Internet of Things Journal*, ., Impact Factor: 9.936

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

Shahid, O., Pouriyeh, S., Meimandi Parizi, R., Sheng, Q. Z., Srivastava, G., Zhao, L. (Revising to Resubmit). Secure Smart Communication Efficiency in Federated Learning: Achievements and Challenges.

*Journal Article, Academic Journal (Submitted)*

Hussain, Z., Sheng, Q. Z., Zhang, W. E., Ortiz, J., Pouriyeh, S. (under review). A Review of the Non-Invasive Techniques for Monitoring Different Aspects of Sleep. *ACM Transactions on Computing for Healthcare*, .

*Journal Article, Academic Journal (In Preparation; Not Yet Submitted)*

Nasajpour, M., Pouriyeh, S., Meimandi Parizi, R., Sheng, Q. Z. (In Preparation; Not Yet Submitted). Federated Learning for Cancer Prediction Models.

*Journal Article, Academic Journal (In Preparation; Not Yet Submitted)*

Nasajpour, M., Pouriyeh, S., Meimandi Parizi, R., Sheng, Q. Z., Zhao, L. (In Preparation; Not Yet Submitted). Federated Learning in Smart Healthcare.

*Journal Article, Academic Journal (In Preparation; Not Yet Submitted)*

Nasajpour, M., Pouriyeh, S., Meimandi Parizi, R. (In Preparation; Not Yet Submitted). Social Engineering During COVID-19 Pandemic.

*Journal Article, Academic Journal (In Preparation; Not Yet Submitted)*

Yang, L., Han, M., Li, Z., Pouriyeh, S., He, S. (In Preparation; Not Yet Submitted). Understanding Customer Satisfaction: A Survey on Sentiment, Emotion, and Domain Knowledge.

### **Conference Proceedings**

*Conference Proceeding (Published)*

Shahid, O., Mothukuri, V., Pouriyeh, S., Meimandi Parizi, R., Shahriar, H. M. (2021). Detecting Network Attacks using Federated Learning for IoT Devices. *2021 IEEE 29th International Conference on Network Protocols (ICNP)* (pp. 1-6).

*Conference Proceeding (Published)*

Shahid, O., Mothukuri, V., Pouriyeh, S., Meimandi Parizi, R., Shahriar, H. M. (2021). *Detecting Network Attacks using Federated Learning for IoT Devices* (pp. 1-6). The 6th IEEE International Workshop on Cyber-Physical Systems Security Protocols (CPS-Sec 2021). Peer Review - Refereed

*Conference Proceeding (Published)*

Anderson, S., Veeravenkatappa, S., Pola, P., Pouriyeh, S., Han, M. (2021). *Automatic Face Mask Detection Using Deep Learning*. ICTS4eHealth IEEE CONFERENCE ON ICT SOLUTIONS FOR e-HEALTH.

*Conference Proceeding (Published)*

Schirato, L., Makina, K., Flanders, D., Pouriyeh, S., Shahriar, H. M. (2021). *COVID-19 Mortality Prediction Using Machine Learning Techniques* (pp. 6). 2021 IEEE ICDH (IEEE International Conference on Digital Health). <https://conferences.computer.org/icdh/2021/> Peer Review - Refereed

*Conference Proceeding (Published)*

Durden, B., Shulman, M., Reynolds, A., Phillips, T., Moore, D., Andrews, I., Pouriyeh, S. (Published). *Using Machine Learning Techniques to Predict RT-PCR Results for COVID-19 Patients*. ICTS4eHealth IEEE CONFERENCE ON ICT SOLUTIONS FOR e-HEALTH.

*Conference Proceeding (Published)*

Williams, J., King, J., Smith, B., Pouriyeh, S., Shahriar, H. M., Li, L. (2021). *Phishing Prevention Using Defense in Depth*. Las Vegas: CSCE'20 - The 2020 World Congress in Computer Science, Computer Engineering, & Applied Computing. <https://americancse.org/events/csce2020/program>

**Rutherford, Rebecca (Professor)**

**Book Chapters**

*Book, Chapter in Scholarly Book-New (Published)*

Rutherford, R. H. (2021). Tips for Using Open Educational Resources to Reduce Textbook Costs in Computing and IT Courses. *Intelligent Computing*. WOODSTOCK:. 3600 OLDE PRESTWICK COURTEditorial Review

*Book, Chapter in Scholarly Book-New (Accepted)*

Halstead-Nussloch, R., Rutherford, R. (2021). Tips for Using Open Educational Resources to Reduce Textbook Costs in Computing and IT Courses. *Kacprzyk, J. (Editor) Advances in Intelligent Systems and Computing. Springer 2021*. Springer.

**Conference Proceedings**

*Conference Proceeding (Published)*

Rutherford, R. (2021). *Automating the Prior Learning Assessment Process: A New Way to do PLA*. CAEL.Peer Review - Refereed

*Conference Proceeding (Published)*

Shahriar, H. M., Li, L., Shahriar, H. M., Rutherford, J. (2021). *We Did It! So Can You! Creating "No-Textbook" IT Degrees* (pp. 151-152). Proceedings of the 22st Annual Conference on Information Technology Education. <https://dl.acm.org/doi/abs/10.1145/3450329.3476870>Peer Review - Refereed

*Conference Proceeding (Published)*

Rutherford, R. H. (2021). *Paper*. Computing Conference 2021.Peer Review - Refereed

**Shahriar, Hossain (Associate Professor)**

**Book Chapters**

*Book, Chapter in Scholarly Book-New (Published)*

Progga, F. T., Shahriar, H. M., Zhang, C., Valero, M. A. (2021). Securing Vehicular Network using AI and Blockchain-based Approaches. *AI in blockchain and Cybersecurity* (pp. 31-44). Springer.Peer Review - Refereed

*Book, Chapter in Scholarly Book-New (Published)*

Riad, A. B. M. K., Shahriar, H., Zhang, C., Barsha, F. (2021). Heath Device Security and Privacy: A Comparative Analysis of Fitbit, Jawbone, Google Glass and Samsung Galaxy

Watch. In Ahmed A. Elngar, Ambika Pawar, Prathamesh Churi (Ed.), *Data Protection and Privacy in Healthcare: Research and Innovations*. Taylor and Francis: Taylor & Francis. <https://www.taylorfrancis.com/chapters/edit/10.1201/9781003048848-6/health-device-security-privacy-kamrul-islam-riad-hossain-shahriar-chi-zhang-farhat-lamia-barsha>Peer Review - Refereed

### **Refereed Journal Articles**

#### *Journal Article, Academic Journal (Published)*

Sneha, S., Thalla, S., Rischie, I., Shahriar, H. M. (2021). Health Internet Technology for Chronic Conditions: Review of Diabetes Management Apps. *JMIR Diabetes*, 6(3), 1-9, ., Impact Factor: 5.43, <https://diabetes.jmir.org/2021/3/e17431/>Peer Review - Refereed

#### *Journal Article, Academic Journal (Published)*

Islam, A. K., Islam, S., Shahriar, H. M., Zhang, C., Valero, M. A., Sneha, S. (2021). Plugin-based Tool for Teaching Secure Mobile Application Development. *Information Systems Education Journal*, 19(2), 25-34, ., <https://iscap.info>Peer Review - Refereed

#### *Journal Article, Academic Journal (Published)*

Riad, K., Islam, S., Shahriar, H. M., Valero, M. A., Zhang, C., Sneha, S., Ahamed, S. (2021). Plugin-based Tool for Teaching Secure Mobile Application Development. *Information Systems Education Journal*, 19(2), 25-34, ., Impact Factor: 1.6, <https://isedj.org/>Peer Review - Refereed

#### *Journal Article, Academic Journal (Published)*

Shahriar, H. M., Haddad, H., Farhadi, M. (2021). Assessing HIPAA Compliance of Open Source Electronic Health Record Applications. *International Journal of Information Security and Privacy*, 15(2), 181-195, .Peer Review - Refereed

#### *Journal Article, Academic Journal (Accepted)*

Shahriar, H., Sneha, S., Whitley, P. (2022). Approaches and Challenges To Secure Health Data. *To appear in International Journal of Medical Engineering and Informatics*, 15, ., <https://www.inderscience.com/jhome.php?jcode=ijmei>Peer Review - Refereed

#### *Journal Article, Academic Journal (Accepted)*

Whitley, P., Shahriar, H., Sneha, S. (2021). Impact of Health Information Technologies on the Quality of Healthcare Deliveries. *To appear in International Journal of Applied Research on Public Health Management*, 6(2), 15, ., <https://www.igi-global.com/article/impact-of-health-information-technologies-on-the-quality-of-healthcare-deliveries/267794>Peer Review - Refereed

### **Conference Proceedings**

#### *Conference Proceeding (Published)*

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://ieee-ccwc.org/call-for-papers/>Peer Review - Refereed

#### *Conference Proceeding (Published)*

Hossain Faruk, m. J., Miner, P., Coughlan, R., Masum, M., Shahriar, H. M., Clincy, V. A., Cetinkaya, C. (2021). *Smart Connected Aircraft: Towards Security, Privacy, and Ethical Hacking* (pp. 6). NY: 14th International Conference on Security of Information and Networks. <https://www.sinconf.org/sin2021/>Peer Review - Refereed

#### *Conference Proceeding (Published)*



Masum, M., Shahriar, H. M., Haddad, H., Hossain Faruk, M. J., Valero, M. A., Khan, M. A. A. H., Rahman, Adnan, M., Cuzzocrea, A., Wu, F. (2021). *Bayesian Hyperparameter Optimization for Deep Neural Network-Based Network Intrusion Detection* (pp. 7). IEEE: IEEE Big Data 2021. <https://bigdataieee.org/BigData2021/Peer Review - Refereed>

*Conference Proceeding (Published)*

Lo, D., Shahriar, H. M., Qian, K., Whitman, M., Wu (2021). *Colab Cloud Based Portable and Shareable Hands-on Labware for Machine Learning to Cybersecurity* (pp. 4). IEEE: IEEE Big Data 2021. Peer Review - Refereed

*Conference Proceeding (Published)*

Hossain Faruk, M. J., Shahriar, H. M., Valero, M. A., Barsha, F., Sobhan, S., Khan, M. A. A. H., Whitman, M., Cuzzocrea, A., Lo, D. C.-T., Rahman, A., Wu, F. (2021). *Malware Detection and Prevention using Artificial Intelligence Techniques* (pp. 9). IEEE: IEEE Big Data 2021. Peer Review - Refereed

*Conference Proceeding (Published)*

Shahid, O., Mothukuri, V., Pouriyeh, S., Meimandi Parizi, R., Shahriar, H. M. (2021). *Detecting Network Attacks using Federated Learning for IoT Devices. 2021 IEEE 29th International Conference on Network Protocols (ICNP)* (pp. 1-6).

*Conference Proceeding (Published)*

Shahid, O., Mothukuri, V., Pouriyeh, S., Meimandi Parizi, R., Shahriar, H. M. (2021). *Detecting Network Attacks using Federated Learning for IoT Devices* (pp. 1-6). The 6th IEEE International Workshop on Cyber-Physical Systems Security Protocols (CPS-Sec 2021). Peer Review - Refereed

*Conference Proceeding (Published)*

Valero, M. A., Li, L., Shahriar, H. M., Sobhan, S., Handlin, M., Zhang, J. (2021). *Emotional Analysis of Learning Cybersecurity with Games* (pp. 6). IEEE International Conference on Intelligence and Security Informatics (ISI). Peer Review - Refereed

*Conference Proceeding (Published)*

Shahriar, H. M., Li, L., Shahriar, H. M., Rutherford, J. (2021). *We Did It! So Can You! Creating "No-Textbook" IT Degrees* (pp. 151-152). Proceedings of the 22st Annual Conference on Information Technology Education. <https://dl.acm.org/doi/abs/10.1145/3450329.3476870> Peer Review - Refereed

*Conference Proceeding (Published)*

Islam, S., Shobhan, S., Valero, M. A., Shahriar, H. M., Zhao, L., Ahamed, S. (2021). *Framework for Collecting Data from specialized IoT devices - An application to enhance Healthcare Systems* (pp. 231-233). 2021 IEEE International Conference on Digital Health (ICDH). Peer Review - Refereed

*Conference Proceeding (Published)*

Masum, M., Shahriar, H. M., Haddad, H., Song, W. (2021). *A Statistical Summary Analysis of Window-Based Extracted Features for EEG Signal Classification*. Los Alamitos, CA: Conference Publishing Services (CPS). <https://conferences.computer.org/icdh/2021/program/>

*Conference Proceeding (Published)*

Schirato, L., Makina, K., Flanders, D., Pouriyeh, S., Shahriar, H. M. (2021). *COVID-19 Mortality Prediction Using Machine Learning Techniques* (pp. 6). 2021 IEEE ICDH (IEEE International Conference on Digital Health). <https://conferences.computer.org/icdh/2021/Peer Review - Refereed>

*Conference Proceeding (Published)*

Hossain Faruk, M. J., Shahriar, H. M., Valero, M., Sneha, S., Ahamed, S., Rahman, M. (2021). *Towards Blockchain-Based Secure Data Management for Remote Patient Monitoring* (pp. 299-308). IEEE International Conference on Digital Health. Peer Review - Refereed

*Conference Proceeding (Published)*

Migiro, L., Shahriar, H. M., Sneha, S. (2021). *Analyzing Security and Privacy Concerns of Contact Tracing Applications* (pp. 283-292). IEEE: IEEE International Conference on Digital Health (ICDH). Peer Review - Refereed

*Conference Proceeding (Published)*

Islam, S., Shobhan, S., Valero, M. A., Shahriar, H. M., Zhao, L., Ahamed, S. (2021). *Framework for Collecting Data from specialized IoT devices-An application to enhance Healthcare Systems* (pp. 231-233). IEEE: IEEE International Conference on Digital Health (ICDH). Peer Review - Refereed

*Conference Proceeding (Published)*

Cottrell, K., Brinto Bose, D., Shahriar, H. M., Rahman, A. (2021). *An Empirical Study of Vulnerabilities in Robotics* (pp. 735-744). IEEE 45th Annual Computers, Software, and Applications Conference (COMPSAC). Peer Review - Refereed

*Conference Proceeding (Published)*

Hossain, M. J., Valero, M. A., Shahriar, H. M. (2021). *An Investigation on Non-Invasive Brain-Computer Interfaces: Emotiv EPOC+ Neuroheadset and Its Effectiveness* (pp. 580-589). IEEE: 2021 IEEE 45th Annual Computers, Software, and Applications Conference (COMPSAC). Peer Review - Refereed

*Conference Proceeding (Published)*

Riad, A. K., Shahriar, H. M., Valero, M. A., Hossain, M. (2021). *Cybersecurity Risks and Mitigation Techniques During COVID-19* (pp. 1351-1356). Georgia: 2021 IEEE 45th Annual Computers, Software, and Applications Conference (COMPSAC). Department of Information Technology. Peer Review - Refereed

*Conference Proceeding (Published)*

Shahriar, S., Islam, M. S., Valero, M. A., Shahriar, H. M., Ahamed, S. (2021). *Data Analysis Methods for Health Monitoring Sensors: A survey*. Peer Review - Refereed

*Conference Proceeding (Published)*

Trivedi, S., Valero, M. A., Shahriar, H. M., Zhao, L. (Published). *Non-Invasive Monitoring of Human Hygiene using Vibration Sensor and Classifiers*. IEEE International Conference on Digital Health. Peer Review - Refereed

*Conference Proceeding (Published)*

Li, F., Valero, M. A., Shahriar, H. M., Khan, R. A., Ahamed, S. I. (2021). *Wi-COVID: A COVID-19 Symptom Detection and Patient Monitoring Framework using WiFi*. IEEE/ACM international conference on Connected Health: Applications, Systems and Engineering Technologies (CHASE). Peer Review - Refereed

*Conference Proceeding (Published)*

Williams, J., King, J., Smith, B., Pouriye, S., Shahriar, H. M., Li, L. (2021). *Phishing Prevention Using Defense in Depth*. Las Vegas: CSCE'20 - The 2020 World Congress in Computer Science, Computer Engineering, & Applied Computing. <https://americancse.org/events/csce2020/program>

*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](https://sigcse2022.sigcse.org/Peer%20Review%20-%20Refereed)

*Conference Proceeding (Accepted)*

Shivers, R. M., Rahman, M., Hossain Faruk, M. J., Shahriar, H. M., A., Clincy, V. A. (2021). *Ride-Hailing for Autonomous Vehicles: Hyperledger Fabric-Based Secure and Decentralize Blockchain Platform* (pp. 10). IEEE: IEEE Big Data 2021. Editorial Review

*Conference Proceeding (Accepted)*

McOker, C., Handlin, M., Li, L., Shahriar, H. M., Zhao, L. (2021). *An Architecture for Federated Learning Enabled Collaborative Intrusion Detection System*. AMCIS 2021. Peer Review - Refereed

### **Tatum, Dawn (Senior Lecturer)**

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

*Policy Brief/White Paper (Submitted)*

Tatum, D., Asgill, A., Li, Z., Okhio, C., Vande Ven, S. (under review). Kennesaw State University, College of Teaching and Learning. No Review

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

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

*Journal Article, Academic Journal (Published)*

Tian, S., He, W., Xing, Y. (2021). Using data science to understand the COVID-19 pandemic. *Information Discovery and Delivery*, 49(3), 189-192, ., Impact Factor: 1.94 Peer Review - Refereed

*Journal Article, Academic Journal (Published)*

Tian, S., He, W., Feng-Kwei, W. (2021). Applying Sentiment Analytics to Examine Social Media Crises: A Case Study of United Airline's Crisis in 2017. *Data Technologies and Applications*, ., Impact Factor: 2.4, <https://www.emerald.com/insight/content/doi/10.1108/DTA-09-2018-0087/full/html> Peer Review - Refereed

*Journal Article, Academic Journal (Published)*

Tian, S., He, S., Han, M. (2021). Data-driven Approaches in FinTech: A Survey. *Information Discovery and Delivery*, 49(2), 123-135, ., Impact Factor: 7.462, <https://www.emerald.com/insight/content/doi/10.1108/IDD-06-2020-0062/full/html> Peer Review - Refereed

*Journal Article, Academic Journal (Accepted)*

Chen, W., He, W., Shen, J., Tian, S., Wang, X. (in press). Artificial Intelligence in Industry 4.0: A Survey. *To appear in Journal of Management Analysis*, ., Impact Factor: 5.8 Q1 (2020) CiteScore Best Quartile Peer Review - Refereed

*Journal Article, Academic Journal (Accepted)*

Tian, S., He, W., Xing, Y. (2021). Using Data Science to Understand the COVID-19 Pandemic. *To appear in Information Discovery and Delivery*, . Peer Review - Refereed

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

Li, L., Tian, S. (Revising to Resubmit). Industry 5.0: Emerging Technology in Manufacturing and Logistics. Peer Review - Refereed

*Journal Article, Academic Journal (Submitted)*

Yu, Y., Fred, D., Tian, S. (under review). Differential Determinants of User Satisfaction and Dissatisfaction. *Journal of Computer Information Systems*, . Peer Review - Refereed

*Journal Article, Academic Journal (Submitted)*

Tian, S. (under review). Investigating the Polarization on School Reopening Debate during the COVID-19 Pandemic. *Information Systems Journal*, . Peer Review - Refereed

### **Conference Proceedings**

*Conference Proceeding (Accepted)*

Chen, W., He, Y., Tian, S., He, W. (2021). *Exploring Cybersecurity Education at the K-12 Level*. SITE Interactive Online 2021 Conference. Peer Review - Refereed

*Conference Proceeding (Accepted)*

Tian, S., He, W., Zhang, J., He, Y. (2021). *Fake News or Real News? Sharing Behaviors on Social Media about COVID-19*. Cybersecurity Education, Research and Practice. Peer Review - Refereed

*Conference Proceeding (Accepted)*

He, Y., Li, W., Tian, S., Xing, Y. (2021). *From Pandemic to New Normal: A survey on challenges, impact, and opportunity for information system research*. 61st Annual IACIS Conference. Peer Review - Refereed

*Conference Proceeding (Accepted)*

Kuntla, G. S., Tian, S., Li, Z. (2021). *Security and Privacy in Machine Learning: A Survey*. 61st IACIS Annual Conference. Peer Review - Refereed

*Conference Proceeding (Not Accepted)*

Tian, S., He, W., Zhang, J., He, Y. (Not Accepted). *Fake News or Real News? Sharing Behaviors on Social Media about COVID-19*. ICIS 2021.

*Conference Proceeding (Submitted)*

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

*Conference Proceeding (Submitted)*

He, Y., He, W., Xu, L., Tian, S., Yuan, X., Yang, L., Ellis, J. (under review). *Adapting Process-Oriented Guided Inquiry Learning (POGIL) for Online Teaching in Cybersecurity: Challenges and Recommendations*. 25th Colloquium on Information Systems Security Education (CISSE). Peer Review - Refereed

*Conference Proceeding (Submitted)*

Yu, Y., Fred, D., Tian, S. (under review). *Differential Determinants of User Satisfaction and Dissatisfaction: A Text-mining Approach*. Hawaii International Conference on System Sciences (HICSS). Peer Review - Refereed

*Conference Proceeding (Submitted)*

Tian, S. (under review). *Using Health Belief Model and Social Media analytics to Develop Insights from Hospital-Generated Twitter Messaging and Community Responses on the COVID-19 Pandemic*. HICSS. Peer Review - Refereed

*Conference Proceeding (Submitted)*

He, W., Tian, S., Zhang, J., Li, W. (under review). *Adverse Effects of Sharing Economy: Shared Bicycle Abuse and Sustainable Development*. ICIS 2021.

*Conference Proceeding (Submitted)*

He, Y., Tian, S., He, W., Zhang, J., Xing, Y., Howard, M. (under review). *Investigating the Polarization on School Reopening Debate during the COVID-19 Pandemic*. ICIS 2021.

## **Valero de Clemente, Maria (Assistant Professor)**

### **Book Chapters**

*Book, Chapter in Scholarly Book-New (Published)*

Progga, F. T., Shahriar, H. M., Zhang, C., Valero, M. A. (2021). Securing Vehicular Network using AI and Blockchain-based Approaches. *AI in blockchain and Cybersecurity* (pp. 31-44). Springer. Peer Review - Refereed

### **Refereed Journal Articles**

*Journal Article, Academic Journal (Published)*

Valero, M. A., Clemente, J., Li, F., Song, W. (2021). Health and Sleep Nursing Assistant for Real-Time, Contactless, and Non-Invasive Monitoring. *Pervasive and Mobile Computing*, ., Impact Factor: 2.8 Peer Review - Refereed

*Journal Article, Academic Journal (Published)*

Islam, A. K., Islam, S., Shahriar, H. M., Zhang, C., Valero, M. A., Sneha, S. (2021). Plugin-based Tool for Teaching Secure Mobile Application Development. *Information Systems Education Journal*, 19(2), 25-34, ., <https://iscap.info> Peer Review - Refereed

*Journal Article, Academic Journal (Published)*

Riad, K., Islam, S., Shahriar, H. M., Valero, M. A., Zhang, C., Sneha, S., Ahamed, S. (2021). Plugin-based Tool for Teaching Secure Mobile Application Development. *Information Systems Education Journal*, 19(2), 25-34, ., Impact Factor: 1.6, <https://isedj.org/> Peer Review - Refereed

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

*Journal Article, Academic Journal (Published)*

Shahid, O., Nasajpour, M., Pouriye, S., Meimandi Parizi, R., Han, M., Valero, M. A., Li, F., Aledhari, M., Sheng, Q. Z. (2021). Machine learning research towards combating COVID-19: Virus detection, spread prevention, and medical assistance. *Journal of Biomedical Informatics*, 117, 103751, ., <https://www.sciencedirect.com/science/article/pii/S1532046421000800>

*Journal Article, Academic Journal (Published)*

Valero, M. A., Li, F., Zhao, L., Zhang, C., Garrido, J. M., Han, Z. (Published). Vibration Sensing-Based Human and Infrastructure Safety/Health Monitoring: A Survey. *Digital Signal Processing/elsevier*, ., Impact Factor: 2.871

*Journal Article, Academic Journal (Published)*

Shahid, O., Nasajpour, M., Pouriye, S., Parizi, R. M., Han, M., Valero, M. A., Li, F., Aledhari, M., Sheng, Q. Z. (2021). Machine Learning Research Towards Combating COVID-19: Virus Detection, Spread Prevention, and Medical Assistance. *Journal of Biomedical Informatics*, ., Impact Factor: 3.526

*Journal Article, Academic Journal (Accepted)*

Zhao, L., Valero, M. A., Pouriye, S., Li, L., Sheng, Q. (in press). Communication-Efficient Semi-Hierarchical Federated Analytics in IoT Networks. *To appear in IEEE Internet of Things Journal*, ., Impact Factor: 9.936

### **Conference Proceedings**

*Conference Proceeding (Published)*

Masum, M., Shahriar, H. M., Haddad, H., Hossain Faruk, M. J., Valero, M. A., Khan, M. A. A. H., Rahman, Adnan, M., Cuzzocrea, A., Wu, F. (2021). *Bayesian Hyperparameter Optimization for Deep Neural Network-Based Network Intrusion Detection* (pp. 7). IEEE: IEEE Big Data 2021. <https://bigdataieee.org/BigData2021/Peer> Review - Refereed

*Conference Proceeding (Published)*

Hossain Faruk, M. J., Shahriar, H. M., Valero, M. A., Barsha, F., Sobhan, S., Khan, M. A. A. H., Whitman, M., Cuzzocrea, A., Lo, D. C.-T., Rahman, A., Wu, F. (2021). *Malware Detection and Prevention using Artificial Intelligence Techniques* (pp. 9). IEEE: IEEE Big Data 2021. Peer Review - Refereed

*Conference Proceeding (Published)*

Valero, M. A., Li, L., Shahriar, H. M., Sobhan, S., Handlin, M., Zhang, J. (2021). *Emotional Analysis of Learning Cybersecurity with Games* (pp. 6). IEEE International Conference on Intelligence and Security Informatics (ISI). Peer Review - Refereed

*Conference Proceeding (Published)*

Islam, S., Shobhan, S., Valero, M. A., Shahriar, H. M., Zhao, L., Ahamed, S. (2021). *Framework for Collecting Data from specialized IoT devices - An application to enhance Healthcare Systems* (pp. 231-233). 2021 IEEE International Conference on Digital Health (ICDH). Peer Review - Refereed

*Conference Proceeding (Published)*

Hossain Faruk, M. J., Shahriar, H. M., Valero, M., Sneha, S., Ahamed, S., Rahman, M. (2021). *Towards Blockchain-Based Secure Data Management for Remote Patient Monitoring* (pp. 299-308). IEEE International Conference on Digital Health. Peer Review - Refereed

*Conference Proceeding (Published)*

Islam, S., Shobhan, S., Valero, M. A., Shahriar, H. M., Zhao, L., Ahamed, S. (2021). *Framework for Collecting Data from specialized IoT devices-An application to enhance Healthcare Systems* (pp. 231-233). IEEE: IEEE International Conference on Digital Health (ICDH). Peer Review - Refereed

*Conference Proceeding (Published)*

Hossain, M. J., Valero, M. A., Shahriar, H. M. (2021). *An Investigation on Non-Invasive Brain-Computer Interfaces: Emotiv EPOC+ Neuroheadset and Its Effectiveness* (pp. 580-589). IEEE: 2021 IEEE 45th Annual Computers, Software, and Applications Conference (COMPSAC). Peer Review - Refereed

*Conference Proceeding (Published)*

Riad, A. K., Shahriar, H. M., Valero, M. A., Hossain, M. (2021). *Cybersecurity Risks and Mitigation Techniques During COVID-19* (pp. 1351-1356). Georgia: 2021 IEEE 45th Annual Computers, Software, and Applications Conference (COMPSAC). Department of Information Technology. Peer Review - Refereed

*Conference Proceeding (Published)*

Shahriar, S., Islam, M. S., Valero, M. A., Shahriar, H. M., Ahamed, S. (2021). *Data Analysis Methods for Health Monitoring Sensors: A survey*. Peer Review - Refereed

*Conference Proceeding (Published)*

Trivedi, S., Valero, M. A., Shahriar, H. M., Zhao, L. (Published). *Non-Invasive Monitoring of Human Hygiene using Vibration Sensor and Classifiers*. IEEE International Conference on Digital Health. Peer Review - Refereed

*Conference Proceeding (Published)*

Li, F., Valero, M. A., Shahriar, H. M., Khan, R. A., Ahamed, S. I. (2021). *Wi-COVID: A COVID-19 Symptom Detection and Patient Monitoring Framework using WiFi*. IEEE/ACM international conference on Connected Health: Applications, Systems and Engineering Technologies (CHASE). Peer Review - Refereed

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

### **Book Chapters**

*Book, Chapter in Scholarly Book-New (Published)*

Li, J., Yang, M., Xie, Y., Li, Z. (2021). A CU Depth Prediction Model Based on Pre-trained Convolutional Neural Network for HEVC Intra Encoding Complexity Reduction. In George A. Tsihrintzis, Maria Virvou, Lakhmi C. Jain (Ed.), *Book: "Advances in Machine Learning/Deep Learning-based Technologies"* (vol. 2). Springer.

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

*Journal Article, Academic Journal (Published)*

Le, L., Xie, Y., Raghavan, V. V. (2021). KNN Loss and Deep KNN. *Fundamenta Informaticae, IOS Press, 182(2)*, 95-110, ., Impact Factor: 1.333, <https://content.iospress.com/articles/fundamenta-informaticae/fi2068>

*Journal Article, Academic Journal (Published)*

Zhang, L., Geisler, T., Ray, H., Xie, Y. (2021). Improving Logistic Regression on the Imbalanced Data by a Novel Penalized Log-Likelihood Function. *Journal of Applied Statistics*, ., Impact Factor: 1.404

### **Conference Proceedings**

*Conference Proceeding (Published)*

Le, L., Xie, Y., Chakravarty, S., Hales, M. E., Johnson II, J. D., Nguyen, T. (2021). Analysis of Students' Concentration Levels for Online Learning Using Webcam Feeds. No. IEEE International Conference on Big Data.

*Conference Proceeding (Published)*

Chakravarty, S., Xie, Y., Le, L., Hales, M. E., Johnson II, J. D. (2021). In Mufti Mahmud, M Shamim Kaiser, Stefano Vassanelli, Qionghai Dai, Ning Zhong (Ed.), *Comparison between Active and Passive Attention Using EEG Waves and Deep Neural Network* (vol. 12960, pp. 287-298). Brain Informatics. Peer Review - Refereed

*Conference Proceeding (Published)*

Hebbar, S., Xie, Y. (2021). *CovidBERT-Biomedical Relation Extraction for Covid-19* (vOL.34 (2021) ed.). Proceedings of FLAIRS-34. <https://journals.flvc.org/FLAIRS/issue/view/5929>

## Yang, Ming (Professor)

### Book Chapters

*Book, Chapter in Scholarly Book-New (Published)*

Li, J., Yang, M., Xie, Y., Li, Z. (2021). A CU Depth Prediction Model Based on Pre-trained Convolutional Neural Network for HEVC Intra Encoding Complexity Reduction. In George A. Tsihrintzis, Maria Virvou, Lakhmi C. Jain (Ed.), *Book: "Advances in Machine Learning/Deep Learning-based Technologies"* (vol. 2). Springer.

### Conference Proceedings

*Conference Proceeding (Published)*

Li, Z., Li, J., Han, M., Yang, M. (2021). A Computer-Vision Based Engagement Evaluation System for More Effective Learning Design. SIGITE. Peer Review - Refereed

## Zhang, Chi (Associate Professor)

### Book Chapters

*Book, Chapter in Scholarly Book-New (Published)*

Progga, F. T., Shahriar, H. M., Zhang, C., Valero, M. A. (2021). Securing Vehicular Network using AI and Blockchain-based Approaches. *AI in blockchain and Cybersecurity* (pp. 31-44). Springer. Peer Review - Refereed

*Book, Chapter in Scholarly Book-New (Published)*

Riad, A. B. M. K., Shahriar, H., Zhang, C., Barsha, F. (2021). Heath Device Security and Privacy: A Comparative Analysis of Fitbit, Jawbone, Google Glass and Samsung Galaxy Watch. In Ahmed A. Elngar, Ambika Pawar, Prathamesh Churi (Ed.), *Data Protection and Privacy in Healthcare: Research and Innovations*. Taylor and Francis: Taylor & Francis. <https://www.taylorfrancis.com/chapters/edit/10.1201/9781003048848-6/heath-device-security-privacy-kamrul-islam-riad-hossain-shahriar-chi-zhang-farhat-lamia-barsha> Peer Review - Refereed

### Refereed Journal Articles

*Journal Article, Academic Journal (Published)*

Islam, A. K., Islam, S., Shahriar, H. M., Zhang, C., Valero, M. A., Sneha, S. (2021). Plugin-based Tool for Teaching Secure Mobile Application Development. *Information Systems Education Journal*, 19(2), 25-34, ., <https://iscap.info> Peer Review - Refereed

*Journal Article, Academic Journal (Published)*

Riad, K., Islam, S., Shahriar, H. M., Valero, M. A., Zhang, C., Sneha, S., Ahamed, S. (2021). Plugin-based Tool for Teaching Secure Mobile Application Development. *Information Systems Education Journal*, 19(2), 25-34, ., Impact Factor: 1.6, <https://isedj.org/> Peer Review - Refereed

### Non-Refereed Journal Articles

*Journal Article, Academic Journal (Published)*

Valero, M. A., Li, F., Zhao, L., Zhang, C., Garrido, J. M., Han, Z. (Published). Vibration Sensing-Based Human and Infrastructure Safety/Health Monitoring: A Survey. *Digital Signal Processing/elsevier*, ., Impact Factor: 2.871



## **Conference Proceedings**

### *Conference Proceeding (Published)*

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

### *Conference Proceeding (Published)*

Li, J., Zhang, C., Luo, H. (. (2021). *Using Mixed Reality in K-12 Education: A Literature Review*. Americas Conference on Information Systems (AMCIS).  
[https://aisel.aisnet.org/amcis2021/sig\\_hci/sig\\_hci/22/Peer Review - Refereed](https://aisel.aisnet.org/amcis2021/sig_hci/sig_hci/22/Peer%20Review%20-%20Refereed)

### *Conference Proceeding (Published)*

Zhang, C., Luo, I., Li, Y. (. (2021). In William Chismar, Tom Horan (Ed.), *Depression Detection Using Virtual Reality: A Literature Review*. Hawaii International Conference on System Sciences-54. [https://hicss.hawaii.edu/Peer Review - Refereed](https://hicss.hawaii.edu/Peer%20Review%20-%20Refereed)

### *Conference Proceeding (Published)*

Li, Y. (., Luo, I., Zhang, C. (2021). *Empathy Games for Depression Using Virtual Reality: A Literature Review and A Study Design*. Honolulu HI: Hawaii International Conference on System Sciences. [https://hicss.hawaii.edu/Peer Review - Refereed](https://hicss.hawaii.edu/Peer%20Review%20-%20Refereed)

## **Zhao, Liang (Assistant Professor)**

### **Book Chapters**

#### *Book, Chapter in Scholarly Book-New (Accepted)*

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

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

#### *Journal Article, Academic Journal (Published)*

Zhao, L., Li, J., Li, Q., Li, F. (Published). A Federated Learning Framework for Detecting False Data Injection Attacks in Solar Farms. *IEEE Transactions on Power Electronics*, ., Impact Factor: 6.663

#### *Journal Article, Academic Journal (Published)*

Valero, M. A., Li, F., Zhao, L., Zhang, C., Garrido, J. M., Han, Z. (Published). Vibration Sensing-Based Human and Infrastructure Safety/Health Monitoring: A Survey. *Digital Signal Processing/elsevier*, ., Impact Factor: 2.871

#### *Journal Article, Academic Journal (Accepted)*

Zhao, L., Valero, M. A., Pouriye, S., Li, L., Sheng, Q. (in press). Communication-Efficient Semi-Hierarchical Federated Analytics in IoT Networks. *To appear in IEEE Internet of Things Journal*, ., Impact Factor: 9.936

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

Shahid, O., Pouriye, S., Meimandi Parizi, R., Sheng, Q. Z., Srivastava, G., Zhao, L. (Revising to Resubmit). Secure Smart Communication Efficiency in Federated Learning: Achievements and Challenges.

#### *Journal Article, Academic Journal (In Preparation; Not Yet Submitted)*

Nasajpour, M., Pouriye, S., Meimandi Parizi, R., Sheng, Q. Z., Zhao, L. (In Preparation; Not Yet Submitted). Federated Learning in Smart Healthcare.

### **Conference Proceedings**

#### *Conference Proceeding (Published)*

Islam, S., Shobhan, S., Valero, M. A., Shahriar, H. M., Zhao, L., Ahamed, S. (2021). *Framework for Collecting Data from specialized IoT devices - An application to enhance Healthcare Systems* (pp. 231-233). 2021 IEEE International Conference on Digital Health (ICDH).Peer Review - Refereed

#### *Conference Proceeding (Published)*

Islam, S., Shobhan, S., Valero, M. A., Shahriar, H. M., Zhao, L., Ahamed, S. (2021). *Framework for Collecting Data from specialized IoT devices-An application to enhance Healthcare Systems* (pp. 231-233). IEEE: IEEE International Conference on Digital Health (ICDH).Peer Review - Refereed

#### *Conference Proceeding (Published)*

Trivedi, S., Valero, M. A., Shahriar, H. M., Zhao, L. (Published). *Non-Invasive Monitoring of Human Hygiene using Vibration Sensor and Classifiers*. IEEE International Conference on Digital Health.Peer Review - Refereed

#### *Conference Proceeding (Accepted)*

McOker, C., Handlin, M., Li, L., Shahriar, H. M., Zhao, L. (2021). *An Architecture for Federated Learning Enabled Collaborative Intrusion Detection System*. AMCIS 2021.Peer Review - Refereed

## **Zheng, Jack (Associate Professor)**

### **Book Chapters**

#### *Book, Chapter in Scholarly Book-New (Working Paper)*

Zheng, J., Li, Z., Li, L. (Working Paper). Go beyond the Technology – Emphasizing Soft Skills in IT/IS Capstone Classes. *the Handbook of Teaching and Learning in IS*. MARIETTA: 1100 S MARIETTA PKWY SE

### **Conference Proceedings**

#### *Conference Proceeding (Accepted)*

Li, L., Peltsverger, S. B., Zheng, G., Le, L., Handlin, M. (2021). *Retrieving and Classifying LinkedIn Job Titles for Alumni Career Analysis*. ACM SIGITE 2021.

## Department of Software Engineering and Game Development

Dehbozorgi, Nasrin (Assistant Professor)

### Refereed Journal Articles

*Journal Article, Academic Journal (Published)*

Dorodchi, M., Dehbozorgi, N., Fallahian, M., Pouriyeh, S. (2021). Teaching Software Engineering using Abstraction through Modeling. *INFORMATICS IN EDUCATION Journal*, .Peer Review - Refereed

*Journal Article, Academic Journal (Submitted)*

Rorrer, A., Frevert, T., Latulipe, C., Sun, T., Dehbozorgi, N., Maher, M. L., Cukic, B., Mays, L., Rogelberg, S. (under review). Organizational Change in CS Higher Education: Indicators of Successful Mindset Shifts. *TOCE*, .Peer Review - Refereed

### Non-Refereed Journal Articles

*Journal Article, Academic Journal (Published)*

Dehbozorgi, N. (Published). Emotion Mining from Speech in Collaborative Learning. *Advances in Science, Technology and Engineering Systems Journal*, 6(2), .

*Journal Article, Professional Journal (Working Paper)*

Dehbozorgi, N., Maher, M. L., Dorodchi, M. (Working Paper). Sentiment Analysis on Conversations in Collaborative Active Learning as an Early Predictor of Performance (extended version). *Innovation in Computing, Engineering Science & Technology Journal*, .

### Conference Proceedings

*Conference Proceeding (Published)*

Dehbozorgi, N., Norkham, A. (Published). *An Architecture Model of Recommender System for Pedagogical Design Patterns*. IEEE.  
<https://ieeexplore.ieee.org/abstract/document/9637342/authors#authors>Peer Review - Refereed

*Conference Proceeding (Published)*

Dehbozorgi, N., Pramasani Mohandoss, D. (Published). *Aspect-Based Emotion Analysis on Speech for Predicting Performance in Collaborative Learning*. IEEE.  
<https://ieeexplore.ieee.org/abstract/document/9637330/authors#authors>Peer Review - Refereed

*Conference Proceeding (Published)*

Dehbozorgi, N., Maher, M. L., Dorodchi, M. (Published). *Does Self-Efficacy Correlate with Positive Emotion and Academic Performance in Collaborative Learning?*. IEEE.  
<https://ieeexplore.ieee.org/abstract/document/9637471>

*Conference Proceeding (Not Accepted)*

Dehbozorgi, N. (Not Accepted). *Organizational Change in CS Higher Education: Indicators of Successful Mindset Shifts*. Marietta: SIGCSE 2021. 585 Cobb Ave NW Room 4406, MD 0104Peer Review - Refereed

Franklin, Michael (Associate Professor)

### **Conference Proceedings**

#### *Conference Proceeding (Published)*

Franklin, D. M. (2021). *firstGlimpse: Learning How to Learn through Observation via Memory Modeling with Reinforcement Learning*. Future of Information and Communication Conference.

#### *Conference Proceeding (Accepted)*

Franklin, D. M. (in press). *Multi-Agent Strategies for Diverse Teams*. International Conference on Human Interaction & Emerging Technologies: Artificial Intelligence 2022. Peer Review - Refereed

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

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

#### *Journal Article, Academic Journal (Published)*

Pang, J., Huang, Y., Xie, Z., Li, J., Cai, Z. (2021). Collaborative city digital twin for the COVID-19 pandemic: A federated learning solution. *Tsinghua Science and Technology*, ., Impact Factor: 2.016

#### *Journal Article, Academic Journal (Published)*

Huang, Y., Li, W., Wang, J., Cai, Z., Bourgeois, A. G. (2021). Privacy protection among three antithetic-parties for context-aware services. *Journal of Network and Computer Applications/Elsevier*, ., Impact Factor: 6.281

#### *Journal Article, Academic Journal (Published)*

Xie, Z., Hu, L., Huang, Y., Pang, J. (2021). A Semi-opportunistic Task Allocation Framework For Mobile Crowdsensing with Deep Learning. *Wireless Communications and Mobile Computing*, ., Impact Factor: 1.819

#### *Journal Article, Academic Journal (Published)*

He, Z., Sai, A. M.V.V., Huang, Y., Seo, D., Zhang, H., Han, Q. (2021). Differentially private approximate aggregation based on feature selection. *Journal of Combinatorial Optimization*, ., Impact Factor: 1.003

### **Conference Proceedings**

#### *Conference Proceeding (Published)*

Mekbib, E., Huang, Y., Mei, C., Li, J. (2021). *Designing a Smart Virtual Environment for Autism Spectrum Disorder Detection*. 2021 IEEE SmartWorld. Peer Review - Refereed

#### *Conference Proceeding (Published)*

Malladi, V., Li, J., Seoand, D., Huang, Y. (2021). *Decentralized Aggregation Design and Study of Federated Learning*. 2021 IEEE SmartWorld.

#### *Conference Proceeding (Published)*

Yang, J., Huang, Y., Siddula, M., Cai, Z. (2021). *Noise Generation GAN Based Identity Privacy Protection for Smart City*. 2021 IEEE SmartWorld.

#### *Conference Proceeding (Published)*

Mekbib, E., Huang, Y., Mei, C., Li, Y. (2021). *Designing a Smart Virtual Environment for Autism Spectrum Disorder Detection*. IEEE Smart World Congress.

#### *Conference Proceeding (Published)*

Huang, Y., Cai, Z., Pang, J., Xie, Z., Bourgeois, A. G. (2021). *Game Theory Based Privacy Protection for Context-Aware Services with Long-Term Time Series Data*. 2021 IEEE International Conference on Communications (ICC'2021).

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

### **Refereed Journal Articles**

*Journal Article, Academic Journal (Published)*

Wang, Y., Wu, Y., Jung, S., Hoermann, S., Yao, S., Lindeman, R. W. (2021). Enlarging the Usable Hand Tracking Area by Using Multiple Leap Motion Controllers in VR. *IEEE Sensors Journal*, 21(16), 17947-17961, ., Impact Factor: 3.301, <http://dx.doi.org/10.1109/jsen.2021.3082988>Peer Review - Refereed

*Journal Article, Academic Journal (Published)*

Jung, S., Lindeman, R. W. (2021). Perspective: Does Realism Improve Presence in VR? Suggesting a Model and Metric for VR Experience Evaluation. *Frontiers in Virtual Reality*, 2, ., <http://dx.doi.org/10.3389/frvir.2021.693327>Peer Review - Refereed

*Journal Article, Academic Journal (Published)*

Jung, S., Li, R., McKee, R., Whitton, M. C., Lindeman, R. W. (2021). Floor-vibration VR: Mitigating Cybersickness Using Whole-body Tactile Stimuli in Highly Realistic Vehicle Driving Experiences. *IEEE Transactions on Visualization and Computer Graphics*, 27(5), 2669-2680, ., Acceptance Rate: 16.8, Impact Factor: 4.579, <http://dx.doi.org/10.1109/tvcg.2021.3067773>Peer Review - Refereed

*Journal Article, Academic Journal (Published)*

Jung, S., Karki, N., Slutter, M., Lindeman, R. W. (2021). On the Use of Multi-sensory Cues in Symmetric and Asymmetric Shared Collaborative Virtual Spaces. *Proceedings of the ACM on Human-Computer Interaction*, 5(CSCW1), 1-25, ., Impact Factor: 4.42, <http://dx.doi.org/10.1145/3449146>Peer Review - Refereed

*Journal Article, Academic Journal (Published)*

Suárez, G., Jung, S., Lindeman, R. W. (2021). Evaluating Virtual Human Role-Players for the Practice and Development of Leadership Skills. *Frontiers in Virtual Reality*, 2, ., <http://dx.doi.org/10.3389/frvir.2021.658561>Peer Review - Refereed

*Journal Article, Academic Journal (Published)*

Wu, Y., Wang, Y., Jung, S., Hoermann, S., Lindeman, R. W. (2021). Using a Fully Expressive Avatar to Collaborate in Virtual Reality: Evaluation of Task Performance, Presence, and Attraction. *Frontiers in Virtual Reality*, 2, ., <http://dx.doi.org/10.3389/frvir.2021.641296>Peer Review - Refereed

### **Conference Proceedings**

*Conference Proceeding (Published)*

Bartl, A., Jung, S., Kullmann, P., Wenninger, S., Achenbach, J., Wolf, E., Schell, C., Lindeman, R. W., Botsch, M., Latoschik, M. E. (2021). Self-Avatars in Virtual Reality: A Study Protocol for Investigating the Impact of the Deliberateness of Choice and the Context-Match. *2021 IEEE Conference on Virtual Reality and 3D User Interfaces Abstracts and Workshops (VRW)* (pp. 565-566). NEW YORK: IEEE.Peer Review - Refereed

*Conference Proceeding (Published)*

Li, R. C., Jung, S., McKee, R. D., Whitton, M. C., Lindeman, R. W. (2021). *Introduce Floor Vibration to Virtual Reality*. New York, NY: Association for Computing Machinery. Peer Review - Refereed

## Li, Xia (Assistant Professor)

### Non-Refereed Journal Articles

*Journal Article, Professional Journal (Published)*

Benton, S., Li, X., Lou, Y., Zhang, L. (2021). Evaluating and Improving Unified Debugging. *TSE 2021*, .

### Conference Proceedings

*Conference Proceeding (Published)*

Lou, Y., Zhu, Q., Dong, J., Li, X., Sun, Z., Hao, D., Zhang, L., Zhang, L. (2021). *Boosting coverage-based fault localization via graph-based representation learning*. FSE 2021.

*Conference Proceeding (Published)*

Li, X., Jiang, J., Benton, S., Xiong, Y., Zhang, L. (2021). *A Large-scale Study on API Misuses in the Wild*. ICST 2021.

## Li, Yi (Assistant Professor)

### Book Chapters

*Book, Chapter in Scholarly Book-New (Published)*

Li, Y. (., Sokhadze, E. M., Li, H. (., Elmagraby, A. S. (2021). In Ioan Opris, Mikhail Lebedev, Manuel Casanova (Ed.), *Affective Virtual Reality Gaming for Autism*. Modern Approaches to Augmentation of Brain Function/Springer International Publishing.  
[https://link.springer.com/chapter/10.1007/978-3-030-54564-2\\_26](https://link.springer.com/chapter/10.1007/978-3-030-54564-2_26) Editorial Review

### Conference Proceedings

*Conference Proceeding (Published)*

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

*Conference Proceeding (Published)*

Mekbib, E., Huang, Y., Mei, C., Li, J. (2021). *Designing a Smart Virtual Environment for Autism Spectrum Disorder Detection*. 2021 IEEE SmartWorld. Peer Review - Refereed

*Conference Proceeding (Published)*

Malladi, V., Li, J., Seoand, D., Huang, Y. (2021). *Decentralized Aggregation Design and Study of Federated Learning*. 2021 IEEE SmartWorld.

*Conference Proceeding (Published)*

Li, J., Zhang, C., Luo, H. ( (2021). *Using Mixed Reality in K-12 Education: A Literature Review*. Americas Conference on Information Systems (AMCIS).  
[https://aisel.aisnet.org/amcis2021/sig\\_hci/sig\\_hci/22/](https://aisel.aisnet.org/amcis2021/sig_hci/sig_hci/22/) Peer Review - Refereed

*Conference Proceeding (Published)*

Li, J., Luo, H. (2021). *Depression prevention by mutual empathy training: Using virtual reality as a tool*. IEEE VR 2021 workshop.

*Conference Proceeding (Published)*

Li, J., Ducleroir, C., Stollman, T. I., Wood, E. A. (2021). *Parkinson's Disease Simulation in Virtual Reality for Empathy Training in Medical Education*. IEEE VR 2021 Workshop. Peer Review - Refereed

*Conference Proceeding (Published)*

Zhang, C., Luo, I., Li, Y. (. (2021). In William Chismar, Tom Horan (Ed.), *Depression Detection Using Virtual Reality: A Literature Review*. Hawaii International Conference on System Sciences-54. <https://hicss.hawaii.edu/> Peer Review - Refereed

*Conference Proceeding (Published)*

Li, Y. (., Luo, I., Zhang, C. (2021). *Empathy Games for Depression Using Virtual Reality: A Literature Review and A Study Design*. Honolulu HI: Hawaii International Conference on System Sciences. <https://hicss.hawaii.edu/> Peer Review - Refereed

### **Mei, Chao (Assistant Professor)**

#### **Conference Proceedings**

*Conference Proceeding (Published)*

Mekbib, E., Huang, Y., Mei, C., Li, J. (2021). *Designing a Smart Virtual Environment for Autism Spectrum Disorder Detection*. 2021 IEEE SmartWorld. Peer Review - Refereed

*Conference Proceeding (Published)*

Mekbib, E., Huang, Y., Mei, C., Li, Y. (2021). *Designing a Smart Virtual Environment for Autism Spectrum Disorder Detection*. IEEE Smart World Congress.

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

#### **Book Chapters**

*Book, Chapter in Scholarly Book-New (Accepted)*

Nasajpour, M., Pouriye, S., Meimandi Parizi, R., Zhao, L., Li, L. (in press). *IoT 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)*

Mallavarapu, T., Cranfill, L., Kim, E. H., Parizi, R. M., Morris, J., Son, J. (2021). A federated approach for fine-grained classification of fashion apparel. *Machine Learning with Applications*, 6(15), 1-12, ., <https://www.sciencedirect.com/science/article/pii/S2666827021000591> Peer Review - Refereed

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

*Journal Article, Academic Journal (Published)*

Jafarpisheh, N., Zaferani, E. J., Teshnehab, M., Karimpour, H., Meimandi Parizi, R., Srivastava, G. (2021). A Deep Neural Network Combined with Radial Basis Function for

Abnormality Classification. *Mobile Networks and Applications*, ., <https://doi.org/10.1007/s11036-021-01835-0>

*Journal Article, Academic Journal (Published)*

Yazdinejadna, A., Meimandi Parizi, R., Dehghantanha, A., Khan, M. S. (2021). A kangaroo-based intrusion detection system on software-defined networks. *Computer Networks*, 184, 107688, ., <http://www.sciencedirect.com/science/article/pii/S1389128620312949>

*Journal Article, Academic Journal (Published)*

Javed, A. R., Fahad, L. G., Farhan, A. A., Abbas, S., Srivastava, G., Meimandi Parizi, R., Khan, M. S. (2021). Automated cognitive health assessment in smart homes using machine learning. *Sustainable Cities and Society*, 65, 102572, ., <http://www.sciencedirect.com/science/article/pii/S2210670720307903>

*Journal Article, Academic Journal (Published)*

Mothukuri, V., Cheerla, S. S., Meimandi Parizi, R., Zhang, Q., Choo, K.-K. R. (2021). BlockHDFS: Blockchain-integrated Hadoop distributed file system for secure provenance traceability. *Blockchain: Research and Applications*, 2(4), 100032, ., <https://www.sciencedirect.com/science/article/pii/S2096720921000270>

*Journal Article, Academic Journal (Published)*

Yazdinejad, A., Meimandi Parizi, R., Dehghantanha, A., Karimipour, H. (2021). Federated learning for drone authentication. *Ad Hoc Networks*, 120, 102574, ., <https://www.sciencedirect.com/science/article/pii/S1570870521001165>

*Journal Article, Academic Journal (Published)*

Aledhari, M., Razzak, R., Meimandi Parizi, R. (2021). Machine learning for network application security: Empirical evaluation and optimization. *Computers & Electrical Engineering*, 91, 107052, ., <https://www.sciencedirect.com/science/article/pii/S0045790621000677>

*Journal Article, Academic Journal (Published)*

Shahid, O., Nasajpour, M., Pouriyyeh, S., Meimandi Parizi, R., Han, M., Valero, M. A., Li, F., Aledhari, M., Sheng, Q. Z. (2021). Machine learning research towards combating COVID-19: Virus detection, spread prevention, and medical assistance. *Journal of Biomedical Informatics*, 117, 103751, ., <https://www.sciencedirect.com/science/article/pii/S1532046421000800>

*Journal Article, Academic Journal (Published)*

Tariq, M. U., Haseeb, M., Aledhari, M., Razzak, R., Meimandi Parizi, R., Saeed, F. (2021). Methods for Proteogenomics Data Analysis, Challenges, and Scalability Bottlenecks: A Survey. *IEEE Access*, 9, 5497-5516, .

*Journal Article, Academic Journal (Published)*

Wu, J. M.-T., Srivastava, G., Lin, J. C.-W., Djenouri, Y., Wei, M., Meimandi Parizi, R., Khan, M. S. (2021). Mining of High-Utility Patterns in Big IoT-based Databases. *Mobile Networks and Applications*, ., <https://doi.org/10.1007/s11036-020-01701-5>

*Journal Article, Academic Journal (Published)*

Mao, K., Srivastava, G., Meimandi Parizi, R., Khan, M. S. (2021). Multi-source fusion for weak target images in the Industrial Internet of Things. *Computer Communications*, 173, 150-159, ., <https://www.sciencedirect.com/science/article/pii/S0140366421001389>

*Journal Article, Academic Journal (Published)*



Sakhnini, J., Karimipour, H., Dehghantanha, A., Meimandi Parizi, R. (2021). Physical layer attack identification and localization in cyber–physical grid: An ensemble deep learning based approach. *Physical Communication*, 47, 101394, ., <https://www.sciencedirect.com/science/article/pii/S1874490721001312>

*Journal Article, Academic Journal (Published)*

Ahmed, S., Shamshad, S., Ghaffar, Z., Mahmood, K., Kumar, N., Meimandi Parizi, R., Choo, K.-K. R. (2021). Signcryption Based Authenticated and Key Exchange Protocol for EI-Based V2G Environment. *IEEE Transactions on Smart Grid*, 12(6), 5290-5298, .

*Journal Article, Academic Journal (Published)*

Zuhaira Muhammad Zain, Sapiaah Sakri, Nurul Halimatul Asmak Ismail,, Meimandi Parizi, R. (2021). Software Defect Prediction Harnessing on Multi 1-Dimensional Convolutional Neural Network Structure. *Computers, Materials & Continua*, 71(1), 1521--1546, ., <http://www.techscience.com/cm/v71n1/45448>

*Journal Article, Academic Journal (Published)*

Mothukuri, V., Meimandi Parizi, R., Pouriyeh, S., Dehghantanha, A., Choo, K.-K. R. (2021). FabricFL: Blockchain-in-the-Loop Federated Learning for Trusted Decentralized Systems. *IEEE Systems Journal*, 1-12, .

*Journal Article, Academic Journal (Published)*

Chowdary Attota, D., Mothukuri, V., Meimandi Parizi, R., Pouriyeh, S. (2021). An Ensemble Multi-View Federated Learning Intrusion Detection for IoT. *IEEE Access Journal*, ., Impact Factor: 3.367

*Journal Article, Academic Journal (Published)*

Choo, K. K. R., Ghosh, U., Tosh, D., Meimandi Parizi, R., Dehghantanha, A. (2021). Introduction to the Special Issue on Decentralized Blockchain Applications and Infrastructures for Next Generation Cyber-Physical Systems. *ACM Trans. Internet Technol.*, 21(2), ., <https://doi.org/10.1145/3464768>

*Journal Article, Academic Journal (Published)*

Mothukuri, V., Khare, P., Meimandi Parizi, R., Pouriyeh, S., Dehghantanha, A., Srivastava, G. (2021). Federated Learning-based Anomaly Detection for IoT Security Attacks. *IEEE Internet of Things Journal*, ., Impact Factor: 9.936

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

Shahid, O., Pouriyeh, S., Meimandi Parizi, R., Sheng, Q. Z., Srivastava, G., Zhao, L. (Revising to Resubmit). Secure Smart Communication Efficiency in Federated Learning: Achievements and Challenges.

*Journal Article, Academic Journal (In Preparation; Not Yet Submitted)*

Nasajpour, M., Pouriyeh, S., Meimandi Parizi, R., Sheng, Q. Z. (In Preparation; Not Yet Submitted). Federated Learning for Cancer Prediction Models.

*Journal Article, Academic Journal (In Preparation; Not Yet Submitted)*

Nasajpour, M., Pouriyeh, S., Meimandi Parizi, R., Sheng, Q. Z., Zhao, L. (In Preparation; Not Yet Submitted). Federated Learning in Smart Healthcare.

*Journal Article, Academic Journal (In Preparation; Not Yet Submitted)*

Nasajpour, M., Pouriyeh, S., Meimandi Parizi, R. (In Preparation; Not Yet Submitted). Social Engineering During COVID-19 Pandemic.

### **Conference Proceedings**

*Conference Proceeding (Published)*

Rabieinejad, E., Yazdinejad, A., Meimandi Parizi, R. (2021). A Deep Learning Model for Threat Hunting in Ethereum Blockchain. *2021 IEEE 20th International Conference on Trust, Security and Privacy in Computing and Communications (TrustCom)* (pp. 1-6).

*Conference Proceeding (Published)*

Yazdinejad, A., Rabieinejad, E., Dehghantanha, A., Meimandi Parizi, R., Srivastava, G. (2021). A Machine Learning-based SDN Controller Framework for Drone Management. *2021 IEEE Globecom Workshops (GC Wkshps)* (pp. 1-6).

*Conference Proceeding (Published)*

Meimandi Parizi, R., Dehghantanha, A., Zhang, Q., Franke, K. (2021). *Decentralized Federated Learning: An Introduction and the Road Ahead*. Proceedings of the 54th Hawaii International Conference on System Sciences. <https://scholarspace.manoa.hawaii.edu/bitstream/10125/71471/m-intro-0159.pdf>

*Conference Proceeding (Published)*

Aledhari, M., Razzak, R., Meimandi Parizi, R., Srivastava, G. (2021). Deep Neural Networks for Detecting Real Emotions Using Biofeedback and Voice. In Del Bimbo, Alberto; Cucchiara, Rita; Sclaroff, Stan; Farinella, Giovanni Maria; Mei, Tao; Bertini, Marco; Escalante, Hugo Jair; Vezzani, Roberto (Ed.), *Pattern Recognition. ICPR International Workshops and Challenges* (pp. 302--309). Cham: Springer International Publishing.

*Conference Proceeding (Published)*

Shahid, O., Mothukuri, V., Pouriye, S., Meimandi Parizi, R., Shahriar, H. M. (2021). Detecting Network Attacks using Federated Learning for IoT Devices. *2021 IEEE 29th International Conference on Network Protocols (ICNP)* (pp. 1-6).

*Conference Proceeding (Published)*

Aledhari, M., Razzak, R., Meimandi Parizi, R., Srivastava, G. (2021). Multimodal Machine Learning for Pedestrian Detection. *2021 IEEE 93rd Vehicular Technology Conference (VTC2021-Spring)* (pp. 1-7).

*Conference Proceeding (Published)*

Rabieinejad, E., Yazdinejad, A., Dehghantanha, A., Meimandi Parizi, R., Srivastava, G. (2021). Secure AI and Blockchain-enabled Framework in Smart Vehicular Networks. *2021 IEEE Globecom Workshops (GC Wkshps)* (pp. 1-6).

*Conference Proceeding (Published)*

Aledhari, M., Razzak, R., Meimandi Parizi, R., Srivastava, G. (2021). Sensor Fusion for Drone Detection. *2021 IEEE 93rd Vehicular Technology Conference (VTC2021-Spring)* (pp. 1-7).

*Conference Proceeding (Published)*

Shahid, O., Mothukuri, V., Pouriye, S., Meimandi Parizi, R., Shahriar, H. M. (2021). *Detecting Network Attacks using Federated Learning for IoT Devices* (pp. 1-6). The 6th IEEE International Workshop on Cyber-Physical Systems Security Protocols (CPS-Sec 2021).Peer Review - Refereed

**Pournaghshband, Hassan (Professor)**

**Conference Proceedings**

*Conference Proceeding (Published)*

Pournaghshband, H., pournaghshband, v. (2021). *APPENDING SECURITY THEORIES TO PROJECTS IN UPPER-DIVISION CS COURSES*. International Conference on Computer Science and Information Technology.

*Conference Proceeding (Published)*

Pournaghshband, H. (2021). *Gamification Integration and Student Motivation*. Systemics, Cybernetics and Informatics:WMSCI 2021.

*Conference Proceeding (Accepted)*

Pournaghshband, H. (2021). *Gamification Integration and Student Motivation*. Systemics, Cybernetics and Informatics:WMSCI 2020.Peer Review - Refereed

## **Robertson, Joseph J. (Assistant Professor)**

### **Refereed Journal Articles**

*Journal Article, Academic Journal (Published)*

Kokkinakis, A., York, P., Patra, M. S., Robertson, J. J., Kirman, B., Coates, A., Chitayat, A., Demediuk, S., A., Hook, J., Nolle, I., Olarewaju, O., Slawson, D., Ursu, M., Block, F. O. (2021). Metagaming and Metagames in Esports. *International Journal of Esports*, 1(1), 24, ., <https://www.ijesports.org/article/51/html>Peer Review - Refereed

### **Conference Proceedings**

*Conference Proceeding (Published)*

Martinelli, M., Robertson, J. J. (2021). A Plan-Based Formal Model of Character Regret. *Proceedings of the International Conference on Interactive Digital Storytelling (ICIDS)* (vol. 13138, pp. 107-117). Springer, Cham.Peer Review - Refereed

*Conference Proceeding (Published)*

Robertson, J. J., Kokkinakis, A. V., Hook, J., Kirman, B., Block, F., Ursu, M. F., Patra, S., Demediuk, S., Drachen, A., Olarewaju, O. (2021). Wait, but Why?: Assessing Behavior Explanation Strategies for Real-Time Strategy Games. *Proceedings of the Annual Conference on Intelligent User Interfaces (IUI)* (pp. 32-42). New York, NY: Association for Computing Machinery (ACM). <https://dl.acm.org/doi/abs/10.1145/3397481.3450699>Peer Review - Refereed

*Conference Proceeding (Published)*

Demediuk, S., Kokkinakis, A., Patra, M. S., Robertson, J. J., Kirman, B., Coates, A., Chitayat, A., Hook, J., Nolle, I., Olarewaju, O., Slawson, D., Ursu, M., Block, F., Drachen, A. (2021). Performance Index: A New Way To Compare Players. *MIT Sloan Sports Analytics Conference* (pp. 16). Boston, MA: MIT Sloan. [https://global-uploads.webflow.com/5f1af76ed86d6771ad48324b/607a44cce65a3887927bfdbc\\_SimonDemediuk-PerformanceIndex-RPpaper.pdf](https://global-uploads.webflow.com/5f1af76ed86d6771ad48324b/607a44cce65a3887927bfdbc_SimonDemediuk-PerformanceIndex-RPpaper.pdf)Editorial Review

*Conference Proceeding (Published)*

Robertson, J., Cardona-Rivera, R. E., Young, R. M. (2021). Invisible Dynamic Mechanic Adjustment in Virtual Reality Games. *Proceedings of the International Conference on Artificial Intelligence & Virtual Reality (AIVR)* (pp. 282-289). Institute of Electrical and Electronics Engineers (IEEE). <https://doi.ieeecomputersociety.org/10.1109/AIVR50618.2020.00057>Peer Review - Refereed

## **Rutherford, James (Senior Lecturer)**

### **Conference Proceedings**

*Conference Proceeding (Published)*

Shahriar, H. M., Li, L., Shahriar, H. M., Rutherford, J. (2021). *We Did It! So Can You! Creating" No-Textbook" IT Degrees* (pp. 151-152). Proceedings of the 22st Annual Conference on Information Technology Education.  
<https://dl.acm.org/doi/abs/10.1145/3450329.3476870>Peer Review - Refereed

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

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

*Journal Article, Academic Journal (Published)*

Menghi, C., Rizzi, A. M., Bernasconi, A., Spoletini, P. (2021). TORPEDO: witnessing model correctness with topological proofs. *Formal Aspects of Computing*, 33, .

*Journal Article, Academic Journal (Published)*

Ferrari, A., Huichapa, T., Spoletini, P., Novielli, N., Fucci, D., Girardi, D. (2021). Using Voice and Biofeedback to Predict User Engagement during Requirements Interviews. *CoRR abs/2104.02410*, .

### **Conference Proceedings**

*Conference Proceeding (Published)*

Debnath, S., Spoletini, P., Ferrari, A. (2021). *From Ideas to Expressed Needs: an Empirical Study on the Evolution of Requirements during Elicitation* (pp. 233-244). 29th IEEE International Requirements Engineering Conference, RE 2021, Notre Dame, IN, USA, September 20-24, 2021, IEEE.Peer Review - Refereed

*Conference Proceeding (Published)*

Benbenisty, Y., Hadar, I., Luria, G., Spoletini, P. (2021). *Privacy as first-class requirements in software development: A socio-technical approach*. (vol. Nier). 36th IEEE/ACM International Conference on Automated Software Engineering, ASE 2021, Melbourne, Australia, November 15-19, 2021.Peer Review - Refereed

### **Other Intellectual Contributions**

*Edited Proceedings (Published)*

Dalpiaz, F., Spoletini, P. (2021). *Requirements Engineering: Foundation for Software Quality: 27th International Working Conference, REFSQ 2021* (vol. 12685). Lecture Notes in Computer Science, Springer.

## **Warpefelt, Henrik (Assistant Professor)**

### **Book Chapters**

*Book, Chapter in Scholarly Book-New (Published)*

Warpefelt, H. (2021). The Case for Naive and Low-Fidelity Narrative Generation. In Barbaros Bostan (Ed.), *Games and Narrative: Theory and Practice* (1st ed.). Cham: Springer International Publishing.

## School of Data Science and Analytics

**Brown, Austin (Assistant Professor)**

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

*Journal Article, Academic Journal (Published)*

White, M. A., Maguire, M. R., Brannan, J. D., Brown, A. (2021). Situational Awareness in Acute Deterioration: Identifying Student Time to Task. *Nurse Educator*, 46(2), ., Impact Factor: 1.454Peer Review - Refereed

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

Brown, A., Do, A. (Revising to Resubmit). Predicting Multiple Injuries to Major League Baseball Pitchers: A Logistic Regression Analysis over the 2009 – 2019 Regular Seasons. *Research in Sports Medicine*, ., Impact Factor: 1.87Peer Review - Refereed

*Journal Article, Academic Journal (Not Accepted)*

Rushton, G. R. T., Brown, A., Albrecht, E. A. (Not Accepted). Hierarchical Cluster Heat Mapping as a Visual Approach to Assessment. *Educational Assessment*, ., Impact Factor: 2.3Peer Review - Refereed

*Journal Article, Academic Journal (Not Accepted)*

Brown, A., Kouakou, F. (Not Accepted). Assessing the Effect of Repeat Injuries in Major League Baseball on Likelihood of a Winning Season. *Journal of Quantitative Analysis in Sport*, .Peer Review - Refereed

*Journal Article, Academic Journal (Submitted)*

Taasoobshirazi, G., Wagner, M., Brown, A., Copeland, C. (under review). An evaluation of college students' perceptions of statisticians. *Journal of Statistics and Data Science Education*, ., Impact Factor: 1.2Peer Review - Refereed

*Journal Article, Academic Journal (In Preparation; Not Yet Submitted)*

Brown, A., Brown, C. J. (In Preparation; Not Yet Submitted). The Effect of Nutrition and Exercise on Cognitive Decline: A Logistic Regression Analysis using the 2019 Behavioral Risk Factor Surveillance System. *American Journal of Public Health*, ., Impact Factor: 9.31Peer Review - Refereed

*Journal Article, Academic Journal (In Preparation; Not Yet Submitted)*

Armstrong, M. C., Brown, A. (In Preparation; Not Yet Submitted). NFL Fantasy Football Roster Management for Running Backs and Wide Receivers: A Random Forest Approach. *Journal of Sports Analytics*, .Peer Review - Refereed

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

*Journal Article, Academic Journal (Published)*

Klinczar, A. M., Bateman, F. L., Griffies, J. D., Arnold, R. R., Brown, A. (Published). Determination of amikacin stability at 1% and 3% concentrations in four topical solutions over a 56 day period. *Journal of Veterinary Dermatology*, ., Impact Factor: 1.697

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

Lopez, R., Ikedum, I., Ndungu, B., Brown, A., Sneha, S. (Revising to Resubmit). Assessing the Relationship Between Educational Attainment and Flu Vaccination: An Examination of the 2019 Behavioral Risk Factor Surveillance System. *Vaccine*, ., Impact Factor: 3.143

## **Chowdhury, Mohammed (Assistant Professor)**

### **Books**

*Book, Scholarly-New (In Preparation; Not Yet Submitted)*

Chowdhury, M. R. (In Preparation; Not Yet Submitted). *Side by Side Learning of R and Python Programming*. Springer.

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

*Journal Article, Academic Journal (Published)*

Zahangir, S., Chowdhury, M. R. (2021). Trends and determinants of knowledge and awareness of HIV/AIDS among married women in Bangladesh: An urban-rural comparison. *Demografie, Review of Population Research*, .

*Journal Article, Academic Journal (Published)*

Huskin, S., Kimiti, S., Chowdhury, M. R., Rahman, A. (2021). Longitudinal Predictive Curves of Health Risk Factors for American Adolescent Girls. *Journal of Adolescent Health*, ., Impact Factor: 3.94, 275 Kennesaw State university Rd

*Journal Article, Academic Journal (Published)*

Chowdhury, M. R. (2021). Sex Differences in Cardiovascular Disease and Cognitive Dysfunction in Rural West Elderly Texans. *Journal of Alzheimer's Disease Reports*, ., Impact Factor: 4.47

*Journal Article, Academic Journal (Submitted)*

Lowhorn, R., Chowdhury, M., Rahman, A. F. (under review). Comorbidities and their Association with COVID-19 Mortality in Mexico Between January 2020 and August 2021. *Journal of Infectious Disease*, .

*Journal Article, Academic Journal (Submitted)*

Chowdhury, M. R., Zahangir, M. S. (under review). Fertility and Fecundability in Bangladesh: A Meta-Analysis from BDHS data. *Demography India*, .

*Journal Article, Academic Journal (Submitted)*

Gadidov, B., Chowdhury, R. (under review). One-step and Two-step Methods for Estimating Time-Variant Parametric Models. *Journal of Royal Statistical Society, series-C*, .

## **DeMaio, Joseph (Professor)**

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

*Journal Article, Academic Journal (Published)*

Zhang, L., Priestley, J. C. L., DeMaio, J. D., Ni, S., Tian, X. (2021). Measuring Customer Similarity and Identifying Cross-Selling Products by Community Detection. *Big Data (special issue of Big Data in business)*, ., <https://www.liebertpub.com/doi/10.1089/big.2020.0044>

## **DiPietro, Michele (Professor)**

### **Book Chapters**

*Book, Chapter in Scholarly Book-New (Accepted)*

DiPietro, M., Steiner, H. H. (in press). 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

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

*Journal Article, Academic Journal (In Preparation; Not Yet Submitted)*

Stewart, L. S., Di Pietro, M. (In Preparation; Not Yet Submitted). "Studying the Impact of a CETL-funded, multi-year Faculty Learning Community dedicated to Contemplative Pedagogy in Higher Education: Teaching, Leadership, and Scholarship."

### **Gardner, Kimberly (Professor)**

#### **Other Intellectual Contributions**

*Online Community (Published)*

Gardner, K. D. (2021). An Implementation of the Statistical Problem Solving Process. *No. Wolfram Community Online Technical Discussion Group*.

### **Gittner, Kevin (Assistant Professor)**

#### **Refereed Journal Articles**

*Journal Article, Academic Journal (Published)*

Gittner, K. B., Gittner, L. S., Dennis, J. A., Matheny, L. M. (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](https://journal-veterans-studies.org/articles/10.21061/jvs.v8i1.246/#Peer%20Review) - Refereed

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

#### **Book Chapters**

*Book, Chapter in Non-Scholarly Book-New (Published)*

Ni, S. (2021). An Enhanced Relationship of Mutual Benefit. In J. Priestley and R. McGrath (Ed.), *Closing the Analytics Talent Gap: The Analytics Manager's Handbook for Leveraging Analytics, Data Science, and Business Intelligence at Universities*. Invited

#### **Refereed Journal Articles**

*Journal Article, Academic Journal (Published)*

Gentry, S. B., Nowak, S. J., Ni, S., Hill, S. A., Wade, L. R., Clark, W. R., Keelaghan, A. P., Morris, D., McMurry, J. L. (2021). A real-time assay for cell-penetrating peptide-mediated delivery of molecular cargos. *PLOS ONE*, ., Impact Factor: 2.7, <https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0254468> Peer Review - Refereed

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

*Journal Article, Academic Journal (Published)*

Zhang, L., Priestley, J. C. L., DeMaio, J. D., Ni, S., Tian, X. (2021). Measuring Customer Similarity and Identifying Cross-Selling Products by Community Detection. *Big Data*

(special issue of *Big Data in business*), ..  
<https://www.liebertpub.com/doi/10.1089/big.2020.0044>

*Journal Article, Academic Journal (Working Paper)*

Wang, Y., Ni, S., Huang, X. (Working Paper). 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.

*Journal Article, Academic Journal (Working Paper)*

Wang, Y., Ni, S., Huang, X. (Working Paper). Towards Profitability: A Profit-sensitive Multinomial Logistic Regression for Credit Scoring in Peer-to-Peer Lending. *Statistics & Risk Modeling*, .

## **Priestley, Jennifer (Professor)**

### **Books**

*Book, Scholarly-New (Published)*

Priestley, J. L., McGrath, R. (2021). In Jay Liebowitz (Ed.), *Closing the Analytics Talent Gap: An Executive's Guide To Working With Universities*. Boca Raton, FL: CRC Press.  
[https://www.amazon.com/Closing-Analytics-Talent-Gap-Universities-dp-0367754665/dp/0367754665/ref=mt\\_other?\\_encoding=UTF8&me=&qid=1615294021](https://www.amazon.com/Closing-Analytics-Talent-Gap-Universities-dp-0367754665/dp/0367754665/ref=mt_other?_encoding=UTF8&me=&qid=1615294021)

### **Refereed Journal Articles**

*Journal Article, Academic Journal (Published)*

Hayes, S. W., Priestley, J. A., Moore, B., Ray, H. (2021). Perceived stress, work-related burnout, and working from home before and during COVID-19: An examination of workers in the United States. *SAGE Open*, .Peer Review - Refereed

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

*Journal Article, Academic Journal (Published)*

Zhang, L., Priestley, J. C. L., DeMaio, J. D., Ni, S., Tian, X. (2021). Measuring Customer Similarity and Identifying Cross-Selling Products by Community Detection. *Big Data (special issue of Big Data in business)*, ..  
<https://www.liebertpub.com/doi/10.1089/big.2020.0044>

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

### **Book Chapters**

*Book, Chapter in Scholarly Book-New (Published)*

Johnson, M., Vaughn, A., Taasoobshirazi, G. (2021). Common Misconceptions and Challenges of Motivation Principles. *Theory to Practice: Educational Psychology for Teachers and Teaching*.. Book is published by American Psychological Association..

*Book, Chapter in Scholarly Book-New (Accepted)*

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)*

Spiva, E. L., Hendenstrom, L., Ballard, N. M., Buitrago, P., Davis, S., Hogue, V., Box, M., Taasoobshirazi, G., Case-Wirth, J. (2021). Nursing Leader Training and Strength-Based Coaching to Impact Leadership Style and Resiliency. *Nursing Management*, 52(10), 42-50, .Peer Review - Refereed

*Journal Article, Academic Journal (Published)*

Fatehi, K., Taasoobshirazi, G., Sanchez-Gutierrez, J. (Published). Toward epistemological identification of the four major mindscapes. *Review of International Business and Strategy/Emerald, Early Cites (volume and pages are not determined)*(TBD), TBD, ., <http://emeraldpublishing.com/oapartnerships>Peer Review - Refereed

*Journal Article, Academic Journal (Submitted)*

Taasoobshirazi, G., Wagner, M., Brown, A., Copeland, C. (under review). An evaluation of college students' perceptions of statisticians. *Journal of Statistics and Data Science Education*, ., Impact Factor: 1.2Peer Review - Refereed

*Journal Article, Academic Journal (Submitted)*

Fatehi, K., Taasoobshirazi, G., Vaezi, R. (under review). Capital Flight from Latin America and Political Risk. *Journal of Economic Structures*, ., Impact Factor: 1.93Peer Review - Refereed

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

*Journal Article, Academic Journal (Published)*

Taasoobshirazi, G., Taasoobshirazi, K. (2021). Antibodies in Vaccinated Cows' Milk as a Temporary Measure to Protect Children from COVID-19. 12, 458-459, ., Impact Factor: 2.32

*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

*Journal Article, Academic Journal (Accepted)*

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

*Journal Article, Academic Journal (Submitted)*

Taasoobshirazi, G., Heddy, B., Danielson, R., Abraham, E., Joji, S. (under review). Development and Psychometric Analysis of the Metarepresentations Survey for Physics: Understanding Students' Free-Body Diagrams. *International Journal of Educational Psychology*, ., 1000 Chastain Dr.

*Journal Article, Academic Journal (Submitted)*

Peifer, J., Bradley, E., Taasoobshirazi, G. (under review). Pilot Testing a Brief Partner-Inclusive Hybrid Intervention for Perinatal Mood and Anxiety Disorders (PMADs). *Frontiers in Psychiatry*, .

*Journal Article, Academic Journal (Submitted)*

Mobley, K., Taasoobshirazi, G. (under review). Predicting Suicide in Communities: Creating a quantitative measure of suicide risk. *International Journal of Mental Health*, ., Impact Factor: 2.94

*Journal Article, Academic Journal (Submitted)*

Peifer, J., Taasobshirazi, G. (under review). Heightened Cognitive Empathy through Ethnic Identity and Intercultural Competence for Individuals with Historically Marginalized Identities. *Cultural Diversity & Ethnic Minority Psychology*, ., Impact Factor: 4.052

### **Other Intellectual Contributions**

*(Submitted)*

Taasobshirazi, G., Duncan, L. (under review). *Giftedness as a Precursor to Expertise: Recommendations for Studying Academic Success in Science*. Kennesaw: Sage Open. 1000 Chastain Dr.

*Manuscript (Submitted)*

Taasobshirazi, G., Hord, A., Vaughn, A., Treadaway, H., Johnson, M. (under review). *Using Motivational Theories to Study Imposter Phenomenon Among Academics*. Kennesaw: Gender, Work, and Organization. 1000 Chastain Dr.

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

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

*Journal Article, Academic Journal (Accepted)*

Woo, M., Mishra, P., Lin, J., Kar, S., Deas, N., Linduff, C., Niu, S., Yang, Y., McClendon, J., Smith, D. Hudson, Shelton, S., Gainey, C., Gerard, W., Smith, M., Griffin, S., Gimbel, R., Wang, K.-C. (in press). Complete and Resilient Documentation (CARD) for Operational Medical Environments Leveraging Mobile Hands-free Technology in a Systems Approach. *To appear in JMIR mHealth and uHealth*, ., Impact Factor: 4.77

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

#### **Refereed Journal Articles**

*Journal Article, Academic Journal (Published)*

Rochani, H., Samawi, H., Zhang, X. (2021). Quantiles naïve, ratio and difference estimators for efficient stratified sampling designs. *Journal of the Korean Statistical Society*, .Peer Review - Refereed

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

*Journal Article, Academic Journal (Published)*

Song, Q., Zhang, X., Mao, M., Sun, W., Zhang, C., Chen, Y., Li, L. (2021). Relationship of proprioception, cutaneous sensitivity, and muscle strength with the balance control among older adults. *Journal of sport and health science*, 10(5), 585-593, .

*Journal Article, Academic Journal (Published)*

Du, Z., Cai, S., Yan, D., Li, H., Zhang, X., Yang, W., Cao, J., Yi, N., Tang, Z. (2021). Development and Validation of a Radiosensitivity Prediction Model for Lower Grade Glioma Based on Spike-and-Slab Lasso. *Frontiers in oncology*, 11, 701500, .

*Journal Article, Academic Journal (Published)*

Zhang, T., Mao, M., Sun, W., Li, L., Chen, Y., Zhang, C., Zhang, X., Song, Q. (2021). Effects of a 16-week Tai Chi intervention on cutaneous sensitivity and proprioception among

older adults with and without sensory loss. *Research in sports medicine (Print)*, 29(4), 406-416, .

*Journal Article, Academic Journal (Published)*

Du, Z., Zhang, X., Tang, Z. (2021). More evidence for prediction model of radiosensitivity. *Bioscience reports*, 41(4), .

*Journal Article, Academic Journal (Submitted)*

Zhang, X., Yi, N. (under review). Analyzing the overall effects of the microbiome abundance data with a Bayesian predictive value approach. *Statistical Methods in Medical research*, .