# Intellectual Contributions

Kennesaw State University
January 1, 2018 - December 31, 2018

## Department of Computer Science

### Aledhari, Mohammed (Assistant Professor)

#### *Refereed Journal Articles*

*Journal Article, Professional Journal (Accepted)*
Aledhari, M., Di Pierro, M. (in press). Towards Smart City Infrastructures: A RFID-Based Smart Traffic Lights System. *To appear in IEEE Transactions on Intelligent Transportation Systems*, ., Impact Factor: 4.051Peer Review - Refereed

*Journal Article, Professional Journal (Accepted)*
Aledhari, M., Di Pierro, M. (in press). A Fuzzy Logic-Based Smart Object Detection and Avoidance Algorithm in Support of Autonomous Vehicles and Mobile Robots. *To appear in IEEE Transactions on Vehicular Technology*, ., Impact Factor: 4.432Peer Review - Refereed

*Journal Article, Professional Journal (Accepted)*
Aledhari, M., Di Pierro, M. (in press). A Hybrid Edge-Based Face Recognition Algorithm in Support of Internet of Things Smart Services. *To appear in IEEE Transactions on Pattern Analysis and Machine Intelligence*, ., Impact Factor: 9.455Peer Review - Refereed

*Journal Article, Professional Journal (Accepted)*
Aledhari, M., Abed, A. (in press). Remote Access and Monitor of PLC Systems using the Android Application. *To appear in IEEE Transactions on Automation Science and Engineering*, ., Impact Factor: 3.667Peer Review - Refereed

*Journal Article, Professional Journal (Accepted)*
Aledhari, M., Di Pierro, M. (in press). A Smart Embedded Vision-Based System for Accurate Positioning Systems in Support of Autonomous Vehicles and Intelligent Transportation Systems. *To appear in IEEE Transactions on Intelligent Transportation Systems*, ., Impact Factor: 4.051Peer Review - Refereed

#### *Conference Proceedings*

*Conference Proceeding (Accepted)*
Aledhari, M., Di Pierro, M., Saeed, F. (in press). *A Fourier-Based Data Minimization Algorithm for Fast and Secure Transfer of Big Genomic Datasets*. 2018 IEEE International Congress on Big Data.Peer Review - Refereed

### Bobbie, Patrick (Professor)

#### *Conference Proceedings*

*Conference Proceeding (Published)*
Bobbie, P. (2018). *Improving Vacant Channel Utilization in Shared TV White Space Spectrum*. Future Technologies Conference (FTC) 2018.

*Conference Proceeding (Published)*

He, S., Han, M., Bobbie, P. (2018). *An Energy-efficient Secure Adaptive Cloud-of-Things (CoT) Framework to Facilitate Undergraduate STEM Education* (pp. 6). ACM SIGITE 2018. This paper won Best Paper Award.Peer Review - Refereed

*Conference Proceeding (Accepted)*
Bobbie, P., He, J. (., Han, M. (2018). *An Energy-Efficient Secure Adaptive Cloud-of-Things (CoT) Framework to Facilitate Undergraduate STEM Education*. ACM: ACM 2018 SIGITE Conference.Peer Review - Refereed

*Conference Proceeding*
Bobbie, P. (2018). *Reducing Secondary User Collisions in TV White Space through a Geolocation Database Middleware*. The Sixth International Conference on Digital Information, Networking, and Wireless Communications (DINWC2018).

**Clincy, Victor (Professor)**

***Book Chapters***

*Book, Chapter in Scholarly Book-New (Published)*
Shahriar, H., Clincy, V. A., Bond, W. (2018). In Y. Maleh (Ed.), *Classification of Web-Service-Based Attacks and Mitigation Techniques* (pp. 299-378). Security and Privacy Management, Techniques, and Protocols. https://www.igi-global.com/chapter/classification-of-web-service-based-attacks-and-mitigation-techniques/202055Peer Review - Refereed

***Conference Proceedings***

*Conference Proceeding (Published)*
Shahriar, H. M., Clincy, V. A. (2018). *Detection of Anomaly in Firewall Rule-Sets* (pp. 422-431). International Conference on Applications and Techniques in Cyber Security and Intelligence ATCI 2018. https://link.springer.com/chapter/10.1007/978-3-319-98776-7_46Peer Review - Refereed

*Conference Proceeding (Published)*
Clincy, V. A., Shahriar, H. M. (2018). *Web Application Firewall: Network Security Models and Configuration* (pp. 835-836). IEEE 42nd Annual Computer Software and Applications Conference (COMPSAC). https://www.computer.org/csdl/proceedings/compsac/2018/2666/00/266601a835-abs.htmlPeer Review - Refereed

**Haddad, Hisham (Professor)**

***Book Chapters***

*Book, Chapter in Scholarly Book-New (Published)*
Qu, F., Haddad, H., Shahriar, H. M. (2019). Application of Blockchain and Smart Contract: Approaches and Challenges. In Kuan-Ching Li, Xiaofeng Chen, Hai Jiang, and Elisa Bertino (Ed.), *Book Titled: Essentials of Blockchain Technology* (pp. 121-140). CRC Press. https://books.google.com/books?hl=en&lr=&id=SsfADwAAQBAJ&oi=fnd&pg=PA121&dq=feiyang+qu+blockchain&ots=rAndye_yW6&sig=biA5Q_aPlXHC4-pu2h0h7EUg8n0#v=onepage&q&f=falsePeer Review - Refereed

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

Talukder, A., Shahriar, H., Haddad, H. (2019). Point-of-Sale Device Attacks and Mitigation Approaches for Cyber-Physical Systems. *Cybersecurity and Privacy in Cyber Physical Systems* (pp. 368-383). CRC Press:. https://books.google.com/books?id=PVOWDwAAQBAJ&lpg=PA367&ots=smB-EmJqLK&dq=info%3AiPKKaAphYiYJ%3Ascholar.google.com&lr&pg=PA367#v=onepage&q&f=falsePeer Review - Refereed

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

Farhadi, M., Haddad, H., Shahriar, H. M. (2018). In Y. Malleh (Ed.), *Compliance of Electronic Health Record Applications With HIPAA Security and Privacy Requirements* (pp. 199-213). Security and Privacy Management, Techniques, and Protocols. URL: https://www.igi-global.com/chapter/compliance-of-electronic-health-record-applications-with-hipaa-security-and-privacy-requirements/202045Peer Review - Refereed

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

Shahriar, H. M., Haddad, H. (2018). In Mehdi Khosrow-Pour (Ed.), *Fuzzy Rule-Based Vulnerability Assessment Framework for Web Applications* (pp. 778-797). Application Development and Design: Concepts, Methodologies, Tools, and Applications. https://www.igi-global.com/chapter/fuzzy-rule-based-vulnerability-assessment-framework-for-web-applications/188234Peer Review - Refereed

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

Talukder, A. I., Shahriar, H. M., Haddad, H. (in press). Point of Sale Device Attacks and Mitigation Approaches for Cyber-Physical Systems. In Yassine Maleh, Abdelkrim Haqiq, Mohammad Shojafar, and Ashraf Darwish (Ed.), *Book Title: Cybersecurity and Privacy in Cyber Physical Systems*. IGI Global.

***Refereed Journal Articles***

*Journal Article, Academic Journal (Published)*

Romero, B. D. R., Rodríguez-Fórtiz, M. J., Torres, M. V. H., Haddad, H. (2018). Accessibility and Activity-Centered Design for ICT Users: ACCESIBILITIC Ontology. *IEEE Access, 6*(1), 60655-60665, ., Impact Factor: 3.557, https://ieeexplore.ieee.org/document/8490866?arnumber=8490866&source=authoralertPeer Review - Refereed

***Conference Proceedings***

*Conference Proceeding (Published)*

Farhadi, M., Haddad, H., Shahriar, H. M. (2018). *Static Analysis of HIPPA Security Requirements in Electronic Health Record Applications* (pp. 474-479). IEEE 42nd Annual Computer Software and Applications Conference (COMPSAC).Peer Review - Refereed

**He, Selena (Associate Professor)**

***Refereed Journal Articles***

*Journal Article, Professional Journal (Published)*

Patel, N., He, S. (2018). A Survey on Hand Gesture Recognition Techniques, Methods and Tools. *International Journal of Research in Advent Technology (IJRAT)*, 19, ., http://www.ijrat.org/downloads/Vol-6/june-2018/paper ID-66201807.pdfPeer Review - Refereed

*Journal Article, Professional Journal (Accepted)*

He, S., Han, M., Ji, S., Du, T., Li, Z. (in press). Spreading Social Influence with Both Positive and Negative Opinions in Online Networks. *To appear in Big Data Mining and Analytics (BDMA)*, 18, .Peer Review - Refereed

***Conference Proceedings***

*Conference Proceeding (Published)*
Han, M., Li, Z., He, S., Tian, S. (2019). *Understand the Emerging Demands of Computing Education for Non-CS Major Students*. ACM SIGCSE 2019.Peer Review - Refereed

*Conference Proceeding (Published)*
Han, M., Li, Z., He, S., Wu, D., Xie, Y., Baba, A. (2018). *A Novel Blockchain-based Education Records Verification Solution* (pp. 6). ACM SIGITE 2018. https://dl.acm.org/citation.cfm?id=3241870Peer Review - Refereed

*Conference Proceeding (Published)*
He, S., Han, M., Bobbie, P. (2018). *An Energy-efficient Secure Adaptive Cloud-of-Things (CoT) Framework to Facilitate Undergraduate STEM Education* (pp. 6). ACM SIGITE 2018. This paper won Best Paper Award.Peer Review - Refereed

*Conference Proceeding (Published)*
Zhou, Y., Han, M., Liu, L., He, S., Wang, Y. (2018). *Deep Learning Approach for Cyberattack Detection* (pp. 6). IEEE InfoCom 2018. https://ieeexplore.ieee.org/document/8407032Peer Review - Refereed

*Conference Proceeding (Published)*
Jackson, D. T., Cesar, Z., Martinez, J., Han, M., He, S. (2018). *Motion-based Control System: Proof-of-Concept Implementation on Robotics via Internet-of-Things (IoT) Technologies*. American Society for Engineering Education (ASEE-SE). http://www.asee-se.org/proceedings/ASEE2018/posters2018.htmPeer Review - Refereed

*Conference Proceeding (Accepted)*
Rashied, A., Nwajagu, N., He, S. (2019). *Statistical Analysis of Empirical Skateboard Data to Aid in Rider Training*. National Conference on Undergraduate Research (NCUR) 2019.Peer Review - Refereed

***Other Intellectual Contributions***

*Conference Poster (Published)*
Han, M., Li, Z., He, S., Tian, S. (Published). *What are the Non-majors Looking for in CS Classes?*. CompEd 2019.Peer Review - Refereed

**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.

***Conference Proceedings***

*Conference Proceeding (Published)*

Hoganson, K. E. (2018). *Multi-Core Real-Time Scheduling in Multilevel Feedback Queue with Starvation Mitigation (MLFQ-RT)* (1st ed., vol. 1, pp. 6). ACM: ACM SouthEast 2018 Conference Proceeding.Peer Review - Refereed

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

***Refereed Journal Articles***

*Journal Article, Academic Journal (Published)*
Chabbouh, M., Bechikh, S., Hung, C.-C., Said, L. B. (2019). Multi-objective Evolution of Oblique Decision Trees for Imbalanced Data Classification. *Swarm and Evolutionary Computation, 49*, 1-22, .Peer Review - Refereed

*Journal Article, Academic Journal (Published)*
Yu, F., Song, E., Liu, H., Zhu, J., Hung, C.-C. (2018). Laparoscopic Image-Guided System Based on Multispectral Imaging for the Ureter Detection. *IEEE Access, 7*, 3800--3809, ., https://doi.org/10.1109/ACCESS.2018.2889138Peer Review - Refereed

*Journal Article, Academic Journal (Published)*
Lan, Y., Zhang, X., Zhang, J., Wang, Y., Hung, C.-C. (2018). A Quadratic Optimization Model for Dynamic Intensity Modulated Radiotherapy and Volumetric Modulated Arc Therapy with Tongue and Groove Constraints. *International Journal of Circuits, Systems and Signal Processing, 12*, .Peer Review - Refereed

*Journal Article, Academic Journal (Published)*
Yu, F., Song, E., Li, Y., Liu, H., Zhu, J., Hung, C.-C. (2018). Laparoscopic Image-guided System Based on Multispectral Imaging for the Ureter Detection. *IEEE Access*, .Peer Review - Refereed

*Journal Article, Academic Journal (Published)*
Xu, Y., Liu, H., Song, E., Jin, R., Hung, C.-C. (2018). Automatic brain tissue segmentation in MR Images using Hybrid Atlas Forest based on Confidence-Weighted Probability Matrix. *International Journal of Imaging Systems and Technology*, .Peer Review - Refereed

*Journal Article, Academic Journal (Published)*
Hammami, M., Bechikh, S., Hung, C.-C., Said, L.B. (2018). A Multi-Objective Hybrid Filter-Wrapper Evolutionary Approach for Feature Selection. *Memetic Computing*, .Peer Review - Refereed

*Journal Article, Academic Journal (Published)*
Lan, Y., Liu, J., Wang, Y., Song, X., Hung, C.-C. (2018). A Quadratic Optimization Model for Dynamic Intensity Modulated Radiotherapy and Volumetric Modulated Arc Therapy with Tongue and Groove Constraints. *International Journal of Circuits, Systems and Signal Processing, 12*, 135 - 142, .Peer Review - Refereed

*Journal Article, Academic Journal (Published)*
Lan, Y., Zhang, X., Zhang, J., Wang, Y., Hung, C.-C. (2018). An Improved Convex Programming Model for the Inverse Problem in Intensity-Modulated Radiation Therapy. *International Journal of Performability Engineering, 14*(5), .Peer Review - Refereed

*Journal Article, Academic Journal (Published)*
Yan, M., Liu, H., Song, E., Qian, Y., Jin, L., Hung, C.-C. (2018). Sparse Patch-Based Representation with Combined Information of Atlas for Multi-Atlas Label Fusion. *IET Image Processing Journal*, .Peer Review - Refereed

### *Non-Refereed Journal Articles*

*Journal Article, Academic Journal (Published)*
Yu, F., Song, E., Liu, H., Li, Y., Zhu, J., Hung, C.-C. (2018). An Augmented Reality Endoscope System for Ureter Position Detection. *J. Medical Systems, 42*(8), 138:1--138:12, ., https://doi.org/10.1007/s10916-018-0992-8

*Journal Article, Academic Journal (Published)*
Song, E., Yu, F., Li, Y., Liu, H., Wan, Y., Hung, C.-C. (2018). An Image-guided Endoscope System for the Ureter Detection. *MONET, 23*(6), 1655--1668, ., https://doi.org/10.1007/s11036-018-1114-z

*Journal Article, Academic Journal (Published)*
Shen, J., Hung, C.-C., Beydoun, G., Li, Y., Guo, W. (2018). Data-Centric Intelligent Computing.

*Journal Article, Academic Journal (Published)*
Cheng, N., Song, E., Liu, H., Hung, C.-C., Lu, Z. (2018). Improved method of frame accumulation technology using dual optical signals. *J. Electronic Imaging, 27*(04), 043032, ., https://doi.org/10.1117/1.JEI.27.4.043032

*Journal Article, Academic Journal (Published)*
Zhu, Z., Jin, L., Song, E., Hung, C.-C. (2018). Quaternion Switching Vector Median Filter Based on Local Reachability Density. *IEEE Signal Process. Lett., 25*(6), 843--847, ., https://doi.org/10.1109/LSP.2018.2808343

*Journal Article, Academic Journal (Published)*
Wang, Q., Xiong, W., Zhang, Y., Pan, N., Yu, Z., Song, E., Hung, C.-C. (2018). Remote analysis of myocardial fiber information in vivo assisted by cloud computing. *Future Generation Comp. Syst., 85*, 146--159, ., https://doi.org/10.1016/j.future.2018.03.019

*Journal Article, Academic Journal (Published)*
Yan, M., Liu, H., Song, E., Qian, Y., Jin, L., Hung, C.-C. (2018). Sparse patch-based representation with combined information of atlas for multi-atlas label fusion. *IET Image Processing, 12*(8), 1345--1353, ., https://doi.org/10.1049/iet-ipr.2017.1108

*Journal Article, Academic Journal (Published)*
Shen, J., Hung, C.-C., Beydoun, G., Li, Y., Guo, W. (2018). Data-Centric Intelligent Computing: Preface. *Int. J. Comput. Intell. Syst., 11*(1), 616--617, ., https://doi.org/10.2991/ijcis.11.1.47

### *Conference Proceedings*

*Conference Proceeding (Published)*
Mallapradaga, S., Wong, M., Hung, C.-C. (2018). *Dimensionality Reduction of Hyperspectral Images for Classification*. International Conference on Information, Tokyo, Japan, December 7-9, 2018..Peer Review - Refereed

*Conference Proceeding (Published)*
Hung, C.-C. (2018). *2018 IEEE Congress on Evolutionary Computation, CEC 2018, Rio de Janeiro, Brazil, July 8-13, 2018*. IEEE. http://ieeexplore.ieee.org/xpl/mostRecentIssue.jsp?punumber=8466244

*Conference Proceeding (Published)*

Mallapragada, S., Wong, M., Hung, C.-C. (2018). Dimensionality reduction of hyperspectral images for classification. *Proceedings of the ninth international conference on information* (pp. 153--160).

*Conference Proceeding (Published)*
Abeysinghe, W., Hung, C.-C., Bechikh, S., Wang, X., Rattani, A. (2018). Clustering algorithms on imbalanced data using the SMOTE technique for image segmentation. *Proceedings of the 2018 Conference on Research in Adaptive and Convergent Systems, RACS 2018, Honolulu, HI, USA, October 09-12, 2018* (pp. 17--22). ACM. https://doi.org/10.1145/3264746.3264774

*Conference Proceeding (Published)*
Hung, C.-C. (2018). In Hung, Chih-Cheng; Said, Lamjed Ben (Ed.), *Proceedings of the 2018 Conference on Research in Adaptive and Convergent Systems, RACS 2018, Honolulu, HI, USA, October 09-12, 2018*. ACM. http://dl.acm.org/citation.cfm?id=3264746

*Conference Proceeding (Published)*
Hammami, M., Bechikh, S., Hung, C.-C., Said, L. B. (2018). *A Multi-Objective Hybrid Filter-Wrapper Evolutionary Approach for Feature Construction on High-Dimensional Data* (pp. 1--8). 2018 IEEE Congress on Evolutionary Computation, CEC 2018, Rio de Janeiro, Brazil, July 8-13, 2018. https://doi.org/10.1109/CEC.2018.8477771

*Conference Proceeding (Published)*
Yu, F., Song, E., Liu, H., Wan, Y., Zhu, J., Hung, C.-C. (2018). *An Enhanced Narrow-Band Imaging Method for the Microvessel Detection*. Proceedings of the SPIE.

***Other Intellectual Contributions***

*(Published)*
Wang, Y., Hung, C.-C., others (2018). *Identification and classification of traffic conflicts using live video images*.

**Jung, Edward (Associate Professor)**

***Refereed Journal Articles***

*Journal Article, Academic Journal (Submitted)*
Jung, E., Bossuet, L., Choi, S. (under review). Maximum (k, t)-maskability in Bounded Lattice Model and State Identification Problem. *Elsevier Information Processing Letter*, ., Impact Factor: 0.793, https://www.journals.elsevier.com/information-processing-letters/Peer Review - Refereed

*Journal Article, Academic Journal (Submitted)*
Jung, E., Bossuet, L., Choi, S. (under review). On the generalization of parallel decomposition of communication protocols and its application to real-time fault detection with masking capability. *Elsevier Computer Communication*, 17, ., Impact Factor: 2.613, https://www.journals.elsevier.com/computer-communications/Peer Review - Refereed

**Lo, Dan (Professor)**

***Conference Proceedings***

*Conference Proceeding (Published)*

Qian, K., Meimandi Parizi, R., Lo, D. C.-T. (2018). *OWASP Risk Analysis Driven Security Requirements Specification for Secure Android Mobile Software Development*. The 2018 IEEE Conference on Dependable and Secure Computing.Peer Review - Refereed

*Conference Proceeding (Published)*
Shahriar, H. M., Qian, K., Islam Talukder, M. A., Patel, M., Lo, D. C.-T. (2018). *Mobile Software Security Risk Assessment with Program Analysis*. The 23rd IEEE Pacific Rim International Symposium on Dependable Computing.

*Conference Proceeding (Published)*
Meng, X., Qian, K., Lo, D. C., Bhattacharya, P., Wu, F. (2018). *Secure Mobile Software Development with Vulnerability Detectors in Static Code Analysis*. Rome: IEEE International Symposium on Networks, Computers, and Communications.Peer Review - Refereed

*Conference Proceeding (Published)*
Lo, D. C.-T., Qian, K., Chen, W. (2018). *PLab: Learning Hands-on Portable Web Security Labs in Database Curriculum*. 2018 Hawaii International Conference on Education.Peer Review - Refereed

*Conference Proceeding*
Meng, X., Qian, K., Lo, D. C.-T., Shahriar, H. M., Talukder, M. A., Bhattacharya, P. (2018). *Secure Mobile IPC Software Development with Vulnerability Detectors in Android Studio* (pp. 829-830). 42nd IEEE International Conference on Computer Software & Applications.Peer Review - Refereed

**North, Sarah (Senior Lecturer)**

***Refereed Journal Articles***

*Journal Article, Academic Journal (Published)*
North, M. M., North, S. (2018). The Sense of Presence Exploration in Virtual Reality Therapy. *Journal of Universal Computer Science: Special Issue on Immersive Learning Research, 24*(2), 72-84, ., http://www.jucs.org/jucs_24_2/the_sense_of_presence/jucs_24_02_0072_0084_north.pdfPeer Review - Refereed

*Journal Article, Academic Journal (Published)*
North, M. M., Richardson, R., North, S. (2018). Analysis of Effectiveness of Optional Versus Mandatory Quizzes on Final Comprehensive Examinations Performance. *International Management Review Journal, 14*(1), 44-48, ., scholarspress.us/journals/IMR/pdf/IMR-1-2018/IMR-v14n1art4.pdfPeer Review - Refereed

***Conference Proceedings***

*Conference Proceeding (Accepted)*
North, S. M. (2019). *Brain-Computer Interface: The Primer Demographic Performance Analysis*. Kennesaw: NCUR Proceedings of the 33rd National Conference on Undergraduate Research. https://apps.cur.org/ncur2019/search/Display_NCUR.aspx?id=111121

*Conference Proceeding (Accepted)*
North, S. M., Verma, M. (2019). In https://www.xcdsystem.com/SoutheastCon/program/x79wt0t/index.cfm?pgid=1989 (Ed.),

*Pedagogical Innovative Research Endeavor: Visualization of Streamed Big Data through Augmented Reality*. IEEE SoutheastCon 2019. https://site.ieee.org/southeastcon2019/conference-schedule/Peer Review - Refereed

*Conference Proceeding (Accepted)*
North, S. M. (2018). *Performances Analysis of Brain-Computer Interface in Aerial Drone*. Annual ACM Southeast Conference, 2018 ACMSE Conference.

**Shaw, Alan (Assistant Professor)**

***Other Intellectual Contributions***

*Research Report (Not Accepted)*
Shaw, A. (Not Accepted). *Incorporating Computer Programming into Mathematics Curricula to Enhance Learning for Low Performing, Underserved Students*. SIGCSE 2018. https://sigcse2019.sigcse.org/index.htmlPeer Review - Refereed

**Shi, Yong (Associate Professor)**

***Conference Proceedings***

*Conference Proceeding (Published)*
Shi, Y., Brown, D. (2018). *An Attempt to Discover Analytical Information for Multi-Dimensional Data Sets* (pp. 1-5). 2018 International Conference on Inventive Research in Computing Applications (ICIRCA).

*Conference Proceeding (Accepted)*
Brown, D., Japp, A., Shi, Y. (2019). *A Fast Density-Grid Based Clustering Method*. 2019 IEEE 9th Annual Computing and Communication Workshop and Conference (CCWC).

*Conference Proceeding (Accepted)*
Shi, Y., Qian, K. (2019). *LBMM: A Load Balancing based Task Scheduling Algorithm for Cloud*. IEEE Future of Information and Communication Conference (FICC) 2019.

*Conference Proceeding (Accepted)*
Japa, A., Brown, D., Shi, Y. (2019). *Towards Optimizing Data Analysis for Multi-Dimensional Data Sets*. IEEE Future of Information and Communication Conference (FICC) 2019.

*Conference Proceeding (Accepted)*
Shi, Y. (2018). *An Attempt to Analyze Data Distribution for Abnormal Behaviors*. The 8th IEEE Annual Computing and Communication Workshop and Conference.

**Son, Junggab (Assistant Professor)**

***Refereed Journal Articles***

*Journal Article, Academic Journal (Published)*
Hussain, R., Kim, D.-H., Son, J., Lee, J., Oh, H. (2018). Secure and Privacy-Aware Incentives-based Witness Service in VANET Clouds. *Internet of Things (IoT) Journal / IEEE, 5*(3), 2441-2448, .Peer Review - Refereed

*Journal Article, Academic Journal (Accepted)*

Son, J., Kim, D.-H., Bhuiyan, M. Z. A., Tashakkori, R., Seo, J., Lee, D. H. (2020). Privacy Enhanced Location Sharing for Mobile Online Social Networks. *To appear in Transactions on Sustainable Computing (TSC) / IEEE*, .Peer Review - Refereed

***Conference Proceedings***

*Conference Proceeding (Published)*

Son, J., Ko, E., Boyanapalli, U. B., Kim, D.-H., Kim, Y., Kang, M. (2019). *Fast and Accurate Machine Learning-based Malware Detection via RC4 Ciphertext Analysis*. IEEE: Proceedings of International Workshop on Computing, Networking and Communications (CNC).Peer Review - Refereed

*Conference Proceeding (Accepted)*

Kim, Y., Kim, D.-H., Son, J., Wang, W., Noh, Y. (2018). *A New Fog-Cloud Storage Framework with Transparency and Auditability*. IEEE International Conference on Communications (ICC 2018) / IEEE. icc2018.ieee-icc.org/content/welcome-ieee-icc-2018Peer Review - Refereed

**Xu, Xiaohua (Assistant Professor)**

***Refereed Journal Articles***

*Journal Article, Academic Journal (Published)*

Gou, L., Xu, X., Zhang, C., Song, M. (2018). Guaranteed Rendezvous for Cognitive Radio Networks. *China Communications*, .Peer Review - Refereed

***Conference Proceedings***

*Conference Proceeding (Published)*

Chen, Y., Chen, F., Wu, T., Hu, W., Xu, X. (2018). *Deep-SCPT: A Deep Learning Model for Secure Cyber-Physical Transportation Systems*. IEEE Conference on Computer Communications Poster and Demo (INFOCOM Poster/Demo) - IEEE INFOCOM Demo.

## Department of Information Technology

### Halstead-Nussloch, R (Professor)

#### *Books*

*Book, Textbook-New (Published)*
Halstead-Nussloch, R. (2019). In Dr. Becky Rutherfoord (Ed.), *Cost-Free Educational Resources for Management of Information Technology and Human Computer Interaction. 2018. Online Textbook/Workbook*. http://ksuweb.kennesaw.edu/~rhalstea/ALG/IT4683/index.htmlEditorial Review

*Book, Textbook-New (Published)*
Halstead-Nussloch, R. (2019). In Dr. Lei Li (Ed.), *Information Technology Systems Acquisition and Integration. December 2018. Online Textbook/ Workbook*. http://ksuweb.kennesaw.edu/~rhalstea/ALG/IT6423/index.htmlEditorial Review

### Han, Meng (Assistant Professor)

#### *Refereed Journal Articles*

*Journal Article, Academic Journal (Published)*
Li, X., Ji, S., Han, M., Ji, J., Ren, Z., Liu, Y., Wu, C. (2019). Adversarial Examples versus Cloud-based Detectors: A Black-box Empirical Study. *IEEE Transactions on Dependable and Secure Computing*, ., Impact Factor: 6.404Peer Review - Refereed

*Journal Article, Academic Journal (Published)*
Joshi, A. P., Han, M., Wang, Y. (2018). A survey on security and privacy issues of blockchain technology. *Mathematical Foundations of Computing, 1*(2), 121--147, .Peer Review - Refereed

*Journal Article, Academic Journal (Published)*
Han, M., Li, L., Xie, Y., Wang, J., Duan, Z., Li, J., Yan, M. (2018). Cognitive approach for location privacy protection. *IEEE Access, 6*, 13466--13477, ., Impact Factor: 4.0Peer Review - Refereed

*Journal Article, Academic Journal (Published)*
Han, M., Li, Y. (2018). Influence analysis: A survey of the state-of-the-art. *Mathematical Foundations of Computing, 1*(3), 201--253, .Peer Review - Refereed

*Journal Article, Academic Journal (Published)*
Han, M., Wang, J., Yan, M., Ai, C., Duan, Z., Hong, Z. (2018). Near-complete privacy protection: cognitive optimal strategy in location-based services. *Procedia Computer Science, 129*, 298--304, .Peer Review - Refereed

*Journal Article, Academic Journal (Published)*
Han, M., Han, Q., Li, L., Li, J., Li, Y. (2018). Maximising influence in sensed heterogeneous social network with privacy preservation. *International Journal of Sensor Networks, 28*(2), 69--79, .Peer Review - Refereed

*Journal Article, Professional Journal (Accepted)*
He, S., Han, M., Ji, S., Du, T., Li, Z. (in press). Spreading Social Influence with Both Positive and Negative Opinions in Online Networks. *To appear in Big Data Mining and Analytics (BDMA)*, 18, .Peer Review - Refereed

### *Non-Refereed Journal Articles*

*Journal Article, Academic Journal (Published)*
Li, J., Cai, Z., Wang, J., Han, M., Li, Y. (2018). Truthful incentive mechanisms for geographical position conflicting mobile crowdsensing systems. *IEEE Transactions on Computational Social Systems, 5*(2), 324--334, .

*Journal Article, Academic Journal (Accepted)*
Li, J., Wang, J., Han, M., Li, Y., Cai, Z. (in press). Truthful Incentive Mechanisms for Geographical Position Conflicting Mobile Crowdsensing Systems. *To appear in IEEE Transactions on Computational Social Systems*, .

### *Conference Proceedings*

*Conference Proceeding (Published)*
Han, M., Li, Z., He, S., Tian, S. (2019). *Understand the Emerging Demands of Computing Education for Non-CS Major Students*. ACM SIGCSE 2019.Peer Review - Refereed

*Conference Proceeding (Published)*
Han, M., Miao, D., Wang, J., Liu, L. (2018). Defend the Clique-based Attack for Data Privacy. *International Conference on Combinatorial Optimization and Applications* (pp. 262--280). Springer.Peer Review - Refereed

*Conference Proceeding (Published)*
Vu, L., Xie, Y., Han, M. (2018). *Designing Visually Interactive Learning Modules to Promote Students' Critical Thinking in Mathematics*. Frontiers in Education (FIE) 2018.Peer Review - Refereed

*Conference Proceeding (Published)*
Lu, Y., Yan, M., Han, M., Yang, Q., Zhang, Y. (2018). Privacy Preserving Multiclass Classification for Horizontally Distributed Data. *Proceedings of the 19th Annual SIG Conference on Information Technology Education* (pp. 165--165).

*Conference Proceeding (Published)*
Han, M., Li, Z., He, S., Wu, D., Xie, Y., Baba, A. (2018). *A Novel Blockchain-based Education Records Verification Solution* (pp. 6). ACM SIGITE 2018. https://dl.acm.org/citation.cfm?id=3241870Peer Review - Refereed

*Conference Proceeding (Published)*
He, S., Han, M., Bobbie, P. (2018). *An Energy-efficient Secure Adaptive Cloud-of-Things (CoT) Framework to Facilitate Undergraduate STEM Education* (pp. 6). ACM SIGITE 2018. This paper won Best Paper Award.Peer Review - Refereed

*Conference Proceeding (Published)*
Liu, L., Han, M., Zhou, Y., Wang, Y. (2018). LSTM Recurrent Neural Networks for Influenza Trends Prediction. *International Symposium on Bioinformatics Research and Applications* (pp. 259--264).Peer Review - Refereed

*Conference Proceeding (Published)*
Zhou, Y., Han, M., Liu, L., He, J. S., Wang, Y. (2018). Deep learning approach for cyberattack detection. *IEEE INFOCOM 2018-IEEE Conference on Computer Communications Workshops (INFOCOM WKSHPS)*.Peer Review - Refereed

*Conference Proceeding (Published)*

Li, L., Guo, R., Han, M. (2018). *On-Demand Virtual Lectures: Promoting Active Learning in Distance Learning*. Beijing, China: 2nd International Conference on E-Education, E-Business and E-Technology.

*Conference Proceeding (Published)*
Liu, L., Han, M., Wang, Y., Zhou, Y. (2018). Understanding Data Breach: A Visualization Aspect. *International Conference on Wireless Algorithms, Systems, and Applications* (pp. 883--892).Peer Review - Refereed

*Conference Proceeding (Published)*
Zhou, Y., Han, M., Liu, L., He, S., Wang, Y. (2018). *Deep Learning Approach for Cyberattack Detection* (pp. 6). IEEE InfoCom 2018. https://ieeexplore.ieee.org/document/8407032Peer Review - Refereed

*Conference Proceeding (Published)*
Walker-Holmes, M. R., Han, M. (2018). *A Data-Driven Framework for the Advancement of Disabled Persons*. American Society for Engineering Education (ASEE-SE). http://www.asee-se.org/proceedings/ASEE2018/posters2018.htmPeer Review - Refereed

*Conference Proceeding (Published)*
Jackson, D. T., Cesar, Z., Martinez, J., Han, M., He, S. (2018). *Motion-based Control System: Proof-of-Concept Implementation on Robotics via Internet-of-Things (IoT) Technologies*. American Society for Engineering Education (ASEE-SE). http://www.asee-se.org/proceedings/ASEE2018/posters2018.htmPeer Review - Refereed

***Other Intellectual Contributions***

*Conference Poster (Published)*
Han, M., Li, Z., He, S., Tian, S. (Published). *What are the Non-majors Looking for in CS Classes?*. CompEd 2019.Peer Review - Refereed

*Cited Research (Accepted)*
Liu, L., Han, M. (2018). *LSTM and GRU Neural Networks for Influenza Trends Prediction with Multiple Data Resources*. Southern Data Science 2019.Peer Review - Refereed

**Li, Lei (Professor)**

***Refereed Journal Articles***

*Journal Article, Academic Journal (Published)*
Han, M., Li, L., Xie, Y., Wang, J., Duan, Z., Li, J., Yan, M. (2018). Cognitive approach for location privacy protection. *IEEE Access, 6*, 13466--13477, ., Impact Factor: 4.0Peer Review - Refereed

*Journal Article, Academic Journal (Published)*
Guo, R., Shen, Y., Li, L. (2018). Using Social Media To Improve Student-Instructor Communication In A Distance Learning Environment. *International Journal of Information and Communication Technology Education, 14*(1), .Peer Review - Refereed

***Conference Proceedings***

*Conference Proceeding (Published)*
Peltsverger, S. B., Li, L., Rutherfoord, R. (2018). Can We Be More Innovative with Program Revision?: Using a Data-Driven 360 Degree Program Review Model. *Proceedings of the 19th Annual SIG Conference on Information Technology Education* (pp. 90--90).

*Conference Proceeding (Published)*
Peltsverger, S. B., Li, L., Rutherfoord, R. (2018). *Principles of Program Revision for Computing Degrees: A Data-Driven 360 Degree Program Review Model*. Norfolk, VA: EDSIGCON.Peer Review - Refereed

*Conference Proceeding (Published)*
Li, L., Guo, R., Ellis, Y. (2018). *Myth Busted on Official Hours – An Empirical Study on Technology Enabled Student-Faculty Out-of-Class Communication*. San Diego, CA: International Conference on Education and E-Learning (ICEEL).

*Conference Proceeding (Published)*
Privitera, D., Li, L. (2018). *Can IoT Devices Be Trusted? An Exploratory Study*. New Orleans: Twenty-fourth Americas Conference on Information Systems (AMCIS).

*Conference Proceeding (Published)*
Li, L., Guo, R., Han, M. (2018). *On-Demand Virtual Lectures: Promoting Active Learning in Distance Learning*. Beijing, China: 2nd International Conference on E-Education, E-Business and E-Technology.

*Conference Proceeding (Published)*
Privitera, D., Li, L. (2018). *Are Certified IoT Devices Trustworthy? A Preliminary Investigation*. Proceedings of the Southern Association for Information Systems Conference (SAIS).

**Li, Zhigang (Assistant Professor)**

***Conference Proceedings***

*Conference Proceeding (Published)*
Han, M., Li, Z., He, S., Tian, S. (2019). *Understand the Emerging Demands of Computing Education for Non-CS Major Students*. ACM SIGCSE 2019.Peer Review - Refereed

*Conference Proceeding (Published)*
Han, M., Li, Z., He, S., Wu, D., Xie, Y., Baba, A. (2018). *A Novel Blockchain-based Education Records Verification Solution* (pp. 6). ACM SIGITE 2018. https://dl.acm.org/citation.cfm?id=3241870Peer Review - Refereed

***Other Intellectual Contributions***

*Conference Poster (Published)*
Han, M., Li, Z., He, S., Tian, S. (Published). *What are the Non-majors Looking for in CS Classes?*. CompEd 2019.Peer Review - Refereed

**Peltsverger, Svetlana (Professor)**

***Conference Proceedings***

*Conference Proceeding (Published)*
Peltsverger, S. B., Li, L., Rutherfoord, R. (2018). Can We Be More Innovative with Program Revision?: Using a Data-Driven 360 Degree Program Review Model. *Proceedings of the 19th Annual SIG Conference on Information Technology Education* (pp. 90--90).

*Conference Proceeding (Published)*

Peltsverger, S. B., Li, L., Rutherfoord, R. (2018). *Principles of Program Revision for Computing Degrees: A Data-Driven 360 Degree Program Review Model*. Norfolk, VA: EDSIGCON.Peer Review - Refereed

**Pouriyeh, Seyedamin (Assistant Professor)**

***Non-Refereed Journal Articles***

*Journal Article, Academic Journal (Published)*
Pouriyeh, S., Allahyari, M., Kochut, K., Arabnia, H. R. (2018). A Comprehensive Survey of Ontology Summarization: Measures and Methods. *arXiv:1801.01937v1*, .

*Journal Article, Academic Journal (Published)*
Pouriyeh, S., Allahyari, M., Liu, Q., Cheng, G., Arabnia, H. R., Qu, Y., Kochut, K. (2018). Graph-based Ontology Summarization: A Survey. *arXiv:1805.06051*, .

***Conference Proceedings***

*Conference Proceeding (Published)*
Pouriyeh, S., Allahyari, M., Kochut, K., Cheng, G., Arabnia, H. R. (2018). Combining Word Embedding and Knowledge-Based Topic Modeling for Entity Summarization. *12th IEEE International Conference on Semantic Computing, ICSC 2018* (pp. 252--255).

*Conference Proceeding (Published)*
Price, R., Ramaswamy, L., Pouriyeh, S. (2018). Efficient Processing of Range Queries over Distributed Relational Databases. *IEEE 19th International Conference on Information Reuse and Integration for Data Science*.

*Conference Proceeding (Published)*
Pouriyeh, S., Allahyari, M., Liu, Q., Cheng, G., Arabnia, H. R., Atzori, M., Kochut, K. (2018). Graph-based Methods for Ontology Summarization: A Survey. *The First IEEE International Conference on Artificial Intelligence and Knowledge Engineering (AIKE 2018)*.

***Other Intellectual Contributions***

*Ph.D. Thesis (Published)*
Pouriyeh, S. (2018). *Probabilistic Topic Modeling Based Framework for Exploration of Rdf Data*. University of Georgia.

**Rutherfoord, Rebecca (Professor)**

***Conference Proceedings***

*Conference Proceeding (Published)*
Peltsverger, S. B., Li, L., Rutherfoord, R. (2018). Can We Be More Innovative with Program Revision?: Using a Data-Driven 360 Degree Program Review Model. *Proceedings of the 19th Annual SIG Conference on Information Technology Education* (pp. 90--90).

*Conference Proceeding (Published)*
Peltsverger, S. B., Li, L., Rutherfoord, R. (2018). *Principles of Program Revision for Computing Degrees: A Data-Driven 360 Degree Program Review Model*. Norfolk, VA: EDSIGCON.Peer Review - Refereed

*Conference Proceeding (Published)*
Rutherfoord, R. (2018). *Creating STEM courses with No Textbook*.

*Conference Proceeding (Published)*
Rutherfoord, R. (2018). *Creating No-Textbook IT Courses - Yes It Can Work for You*. ACM SIGITE '18 The 19th Annual Conference on Information Technology Education Proceedings.Peer Review - Refereed

**Shahriar, Hossain (Associate Professor)**

***Book Chapters***

*Book, Chapter in Scholarly Book-New (Published)*
Qu, F., Haddad, H., Shahriar, H. M. (2019). Application of Blockchain and Smart Contract: Approaches and Challenges. In Kuan-Ching Li, Xiaofeng Chen, Hai Jiang, and Elisa Bertino (Ed.), *Book Titled: Essentials of Blockchain Technology* (pp. 121-140). CRC Press.
https://books.google.com/books?hl=en&lr=&id=SsfADwAAQBAJ&oi=fnd&pg=PA121&dq=feiyang+qu+blockchain&ots=rAndye_yW6&sig=biA5Q_aPlXHC4-pu2h0h7EUg8n0#v=onepage&q&f=falsePeer Review - Refereed

*Book, Chapter in Scholarly Book-New (Published)*
Talukder, A., Shahriar, H., Haddad, H. (2019). Point-of-Sale Device Attacks and Mitigation Approaches for Cyber-Physical Systems. *Cybersecurity and Privacy in Cyber Physical Systems* (pp. 368-383). CRC Press:.
https://books.google.com/books?id=PVOWDwAAQBAJ&lpg=PA367&ots=smB-EmJqLK&dq=info%3AiPKKaAphYiYJ%3Ascholar.google.com&lr&pg=PA367#v=onepage&q&f=falsePeer Review - Refereed

*Book, Chapter in Scholarly Book-New (Published)*
Shahriar, H., Clincy, V. A., Bond, W. (2018). In Y. Maleh (Ed.), *Classification of Web-Service-Based Attacks and Mitigation Techniques* (pp. 299-378). Security and Privacy Management, Techniques, and Protocols.
https://www.igi-global.com/chapter/classification-of-web-service-based-attacks-and-mitigation-techniques/202055Peer Review - Refereed

*Book, Chapter in Scholarly Book-New (Published)*
Farhadi, M., Haddad, H., Shahriar, H. M. (2018). In Y. Malleh (Ed.), *Compliance of Electronic Health Record Applications With HIPAA Security and Privacy Requirements* (pp. 199-213). Security and Privacy Management, Techniques, and Protocols. URL:
https://www.igi-global.com/chapter/compliance-of-electronic-health-record-applications-with-hipaa-security-and-privacy-requirements/202045Peer Review - Refereed

*Book, Chapter in Scholarly Book-New (Published)*
Shahriar, H. M., Haddad, H. (2018). In Mehdi Khosrow-Pour (Ed.), *Fuzzy Rule-Based Vulnerability Assessment Framework for Web Applications* (pp. 778-797). Application Development and Design: Concepts, Methodologies, Tools, and Applications.
https://www.igi-global.com/chapter/fuzzy-rule-based-vulnerability-assessment-framework-for-web-applications/188234Peer Review - Refereed

*Book, Chapter in Scholarly Book-New (Accepted)*
Talukder, A. I., Shahriar, H. M., Haddad, H. (in press). Point of Sale Device Attacks and Mitigation Approaches for Cyber-Physical Systems. In Yassine Maleh, Abdelkrim Haqiq, Mohammad Shojafar, and Ashraf Darwish (Ed.), *Book Title: Cybersecurity and Privacy in Cyber Physical Systems*. IGI Global.

### *Refereed Journal Articles*

*Journal Article, Academic Journal (Published)*
Shahriar, H. M., Zhang, C., Dunn, S., Bronte, R., Shalan, A., Tarmissi, K. (2019). Mobile anti-phishing: Approaches and challenges. *INFORMATION SECURITY JOURNAL: A GLOBAL PERSPECTIVE*, 1-16, .Peer Review - Refereed

*Journal Article, Academic Journal (Published)*
Carter, G., White, D., Nalla, A., Sneha, S., Shahriar, H. M. (2019). Toward Application of Blockchain for Improved Health Records Management and Patient Care. *Blockchain in Healthcare Today, February, 2019*, 1-12, .Peer Review - Refereed

### *Conference Proceedings*

*Conference Proceeding (Published)*
Shahriar, H. M., Zhang, C., Talukder, M. A. I., Ahamed, S. (2019). *Resources For Healthcare Workflow Modeling and Analysis* (pp. 2469-2472). ACM Symposium of Applied Computing (SAC). https://www.sigapp.org/sac/sac2019/Peer Review - Refereed

*Conference Proceeding (Published)*
Sinclair, D., Shahriar, H. M., Zhang, C. (2019). *Security Requirement Prototyping with Hyperledger Composer for Drug Supply Chain – A Blockchain Application* (pp. 158-163). ACM: Proceedings of the 3rd International Conference on Cryptography, Security and Privacy (ICCSP 2019). http://www.iccsp.org/Peer Review - Refereed

*Conference Proceeding (Published)*
Shahriar, H. M., Qian, K., Islam Talukder, M. A., Patel, M., Lo, D. C.-T. (2018). *Mobile Software Security Risk Assessment with Program Analysis*. The 23rd IEEE Pacific Rim International Symposium on Dependable Computing.

*Conference Proceeding (Published)*
Shahriar, H. M., Zhang, C. (2018). *Teaching of Clinical Workflow Analysis with Process Mining: An Experience Report* (pp. 1-7). Proceedings of the EDSIG Conference. http://proc.iscap.info/2018/pdf/4658.pdfPeer Review - Refereed

*Conference Proceeding (Published)*
Shahriar, H. M., Clincy, V. A. (2018). *Detection of Anomaly in Firewall Rule-Sets* (pp. 422-431). International Conference on Applications and Techniques in Cyber Security and Intelligence ATCI 2018. https://link.springer.com/chapter/10.1007/978-3-319-98776-7_46Peer Review - Refereed

*Conference Proceeding (Published)*
Whitley, P., Ennis, E., Tacca, N., Sneha, S., Shahriar, H. M., Zhang, C. (2018). *Reduction of Medical Errors in Emergency Medical Care* (pp. 160). SIGITE '18 Proceedings of the 19th Annual SIG Conference on Information Technology Education.Peer Review - Refereed

*Conference Proceeding (Published)*
Meimandi Parizi, R., Qian, K., Shahriar, H. M., Wu, F., Tao, L. (2018). *Benchmark Requirements for Assessing Software Security Vulnerability Testing Tools* (pp. 825-826). 42nd IEEE International Conference on Computer Software & Applications.Peer Review - Refereed

*Conference Proceeding (Published)*
Clincy, V. A., Shahriar, H. M. (2018). *Web Application Firewall: Network Security Models and Configuration* (pp. 835-836). IEEE 42nd Annual Computer Software and Applications

Conference (COMPSAC). https://www.computer.org/csdl/proceedings/compsac/2018/2666/00/266601a835-abs.htmlPeer Review - Refereed

*Conference Proceeding (Published)*
Hasan, M. G., Datta, A., Rahman, M., Shahriar, H. M. (2018). *Chained of Things: A Secure and Dependable Design of Autonomous Vehicle Services* (pp. 498-503). 2018 42nd IEEE International Conference on Computer Software & Appli. https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=8377911Peer Review - Refereed

*Conference Proceeding (Published)*
Farhadi, M., Haddad, H., Shahriar, H. M. (2018). *Static Analysis of HIPPA Security Requirements in Electronic Health Record Applications* (pp. 474-479). IEEE 42nd Annual Computer Software and Applications Conference (COMPSAC).Peer Review - Refereed

*Conference Proceeding (Published)*
Privitera, D., Shahriar, H. M. (2018). *Design and development of smart TV protector* (pp. 45-52). 2018 National Cyber Summit (NCS). https://ieeexplore.ieee.org/abstract/document/8595334Peer Review - Refereed

*Conference Proceeding (Published)*
Tibeme, B., Shahriar, H. M., Zhang, C. (2018). *Process Mining Algorithms for Clinical Workflow Analysis* (pp. 6). IEEE Southeast Conference. https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=8479176Peer Review - Refereed

*Conference Proceeding*
Zhang, C., Shahriar, H. M. (2018). *Health Data Analytics: A Health IT Application Course* (pp. 163-163). SIGITE '18 Proceedings of the 19th Annual SIG Conference on Information Technology Education. https://dl.acm.org/citation.cfm?id=3241887Peer Review - Refereed

*Conference Proceeding*
Meng, X., Qian, K., Lo, D. C.-T., Shahriar, H. M., Talukder, M. A., Bhattacharya, P. (2018). *Secure Mobile IPC Software Development with Vulnerability Detectors in Android Studio* (pp. 829-830). 42nd IEEE International Conference on Computer Software & Applications.Peer Review - Refereed

**Tian, Shirley (Assistant Professor)**

***Refereed Journal Articles***

*Journal Article, Academic Journal (Published)*
He, W., Zhang, W., Tian, S., Tao, R., Akula, V. (2018). Identifying customer knowledge on social media through data analytics. *Journal of Enterprise Information Management*, ., Impact Factor: 2.482Peer Review - Refereed

*Journal Article, Academic Journal (Published)*
He, W., Tian, S., Hung, A., Akula, V., Zhang, W. (2018). Measuring and comparing service quality metrics through social media analytics: a case study. *Information Systems and e-Business Management*, 1--22, .Peer Review - Refereed

*Journal Article, Academic Journal (Accepted)*
He, W., Tian, S., Wang, F.-K. (2019). Innovating the customer loyalty program with social media: A case study of best practices using analytics tools. *To appear in Journal of Enterprise Information Management*, ., Impact Factor: 2.482Peer Review - Refereed

*Journal Article, Academic Journal (Revising to Resubmit)*
Tian, X., He, W., Shenghua, Z. (Revising to Resubmit). Investigating Blockchain Application in Education: A Survey. *Journal of Enterprise Information Management (JEIM)*, ., Impact Factor: 2.482Peer Review - Refereed

*Journal Article, Academic Journal (Submitted)*
Tian, X., He, W., Wen, Q., Zhang, W. (under review). Understanding the Vulnerable Community Through Social Network Analytics and Text Mining. *International Journal of Information Management*, ., Impact Factor: 4.80Peer Review - Refereed

*Journal Article, Academic Journal (Submitted)*
Tian, S., He, W. (under review). Applying Sentiment Analytics on Big Social Media Conflicts and Crises. *Data Technologies and Applications*, .Peer Review - Refereed

***Non-Refereed Journal Articles***

*Journal Article, Academic Journal (Submitted)*
Tian, S. (under review). EFFECTIVENESS OF SOCIAL MEDIA BID DATA ANALYTICS ON DETECTING SERVICE QUALITY METRICS IN THE U.S. AIRLINE INDUSTRY. *Industrial Marketing Management*, ., Impact Factor: 4.488

***Conference Proceedings***

*Conference Proceeding (Published)*
Han, M., Li, Z., He, S., Tian, S. (2019). *Understand the Emerging Demands of Computing Education for Non-CS Major Students*. ACM SIGCSE 2019.Peer Review - Refereed

*Conference Proceeding (Published)*
Tian, S., He, W., Tang, C., Li, L., Selover, D. (2018). Examining Service Quality in The U.S. Airline Industry by Social Media Analytics. *2018 DSI Annual Meeting*.Peer Review - Refereed

*Conference Proceeding (Submitted)*
He, W., Anwar, M., Li, L., Ash, I., Tian, S., Yuan, X., Li, X. (under review). *Effects of Evidence-Based Malware Cybersecurity Training on Employees*. CompEd 2019.Peer Review - Refereed

*Conference Proceeding (Submitted)*
Tian, S. (under review). *Using POGIL to Help Students Learn Secure Coding*. SIGCSE 2019.Peer Review - Refereed

*Conference Proceeding (Submitted)*
Pribesh, S. L., Watson, S. R., He, W., Xu, L. D., Tian, S. (under review). *STUDENTS WITH LEARNING DISABILITIES, PAIR PROGRAMMING AND SITUATIONAL MOTIVATION*. AERA 2019 Annual Meeting.Peer Review - Refereed

***Other Intellectual Contributions***

*Conference Poster (Published)*
Han, M., Li, Z., He, S., Tian, S. (Published). *What are the Non-majors Looking for in CS Classes?*. CompEd 2019.Peer Review - Refereed

**Xie, Ying (Professor)**

### *Book Chapters*

*Book, Chapter in Scholarly Book-New (Published)*
Xie, Y., Le, L., Zhou, Y., Vijay, R. V. (2018). Deep Learning for Natural Language Processing. In V. Gudivada, C.R.Rao (Ed.), *Computational Analysis and Understanding of Natural Languages*. Computational Analysis and Understanding of Natural Languages, Elservier.

### *Refereed Journal Articles*

*Journal Article, Academic Journal (Published)*
Han, M., Li, L., Xie, Y., Wang, J., Duan, Z., Li, J., Yan, M. (2018). Cognitive approach for location privacy protection. *IEEE Access, 6*, 13466--13477, ., Impact Factor: 4.0Peer Review - Refereed

### *Conference Proceedings*

*Conference Proceeding (Published)*
Bantupalli, K., Xie, Y. (2018). *American Sign Language Recognition Using Deep Learning and Computer Vision*. IEEE International Conference on Big Data 2018.

*Conference Proceeding (Published)*
Le, L., Xie, Y. (2018). *Deep Similarity-Enhanced K Nearest Neighbors*. 2018 IEEE International Conference on Big Data.Peer Review - Refereed

*Conference Proceeding (Published)*
Vanderheyden, R., Xie, Y. (2018). *Ordinal Hyperplane Loss*. 2018 IEEE International Conference on Big Data.

*Conference Proceeding (Published)*
Le, L., Xie, Y. (2018). *Recurrent Embedding Kernel for Predicting Stock Daily Direction*. 2018 IEEE/ACM International Conference on Big Data Computing, Applications and Technologies.Peer Review - Refereed

*Conference Proceeding (Published)*
Vu, L., Xie, Y., Han, M. (2018). *Designing Visually Interactive Learning Modules to Promote Students' Critical Thinking in Mathematics*. Frontiers in Education (FIE) 2018.Peer Review - Refereed

*Conference Proceeding (Published)*
Han, M., Li, Z., He, S., Wu, D., Xie, Y., Baba, A. (2018). *A Novel Blockchain-based Education Records Verification Solution* (pp. 6). ACM SIGITE 2018. https://dl.acm.org/citation.cfm?id=3241870Peer Review - Refereed

*Conference Proceeding (Published)*
Yang, M., Xie, Y., Yu, J., Wang, Z., Wu, T. (2018). *Using Deep Learning Neural Network for Block Partitioning in H.265/HEVC*. 11th EAI International Conference on Mobile Multimedia Communications.

### *Other Intellectual Contributions*

*US Patent Application*
Xie, Y., Le, L. *Dual Deep Learning Architecture for Machine-Learning Systems*. US Patent Application.

**Yang, Ming (Professor)**

***Conference Proceedings***

*Conference Proceeding (Published)*
Marktanner, M., Merkel, A., Yang, M. (2018). *The Use of Interactive Socioeconomic Data Visualization for a More Informed Public Debate*. 6th edition of the International Conference in Software Engineering Research and Innovation (CONISOFT'18).

*Conference Proceeding (Published)*
Yang, M., Xie, Y., Yu, J., Wang, Z., Wu, T. (2018). *Using Deep Learning Neural Network for Block Partitioning in H.265/HEVC*. 11th EAI International Conference on Mobile Multimedia Communications.

**Zhang, Chi (Associate Professor)**

***Refereed Journal Articles***

*Journal Article, Academic Journal (Published)*
Shahriar, H. M., Zhang, C., Dunn, S., Bronte, R., Shalan, A., Tarmissi, K. (2019). Mobile anti-phishing: Approaches and challenges. *INFORMATION SECURITY JOURNAL: A GLOBAL PERSPECTIVE*, 1-16, .Peer Review - Refereed

***Conference Proceedings***

*Conference Proceeding (Published)*
Shahriar, H. M., Zhang, C., Talukder, M. A. I., Ahamed, S. (2019). *Resources For Healthcare Workflow Modeling and Analysis* (pp. 2469-2472). ACM Symposium of Applied Computing (SAC). https://www.sigapp.org/sac/sac2019/Peer Review - Refereed

*Conference Proceeding (Published)*
Sinclair, D., Shahriar, H. M., Zhang, C. (2019). *Security Requirement Prototyping with Hyperledger Composer for Drug Supply Chain – A Blockchain Application* (pp. 158-163). ACM: Proceedings of the 3rd International Conference on Cryptography, Security and Privacy (ICCSP 2019). http://www.iccsp.org/Peer Review - Refereed

*Conference Proceeding (Published)*
Shahriar, H. M., Zhang, C. (2018). *Teaching of Clinical Workflow Analysis with Process Mining: An Experience Report* (pp. 1-7). Proceedings of the EDSIG Conference. http://proc.iscap.info/2018/pdf/4658.pdfPeer Review - Refereed

*Conference Proceeding (Published)*
Whitley, P., Ennis, E., Tacca, N., Sneha, S., Shahriar, H. M., Zhang, C. (2018). *Reduction of Medical Errors in Emergency Medical Care* (pp. 160). SIGITE '18 Proceedings of the 19th Annual SIG Conference on Information Technology Education.Peer Review - Refereed

*Conference Proceeding (Published)*
Zhang, C. (2018). *Using Open Healthcare Datasets to Teach Health Data Analytics*. AMCIS 2018. https://aisel.aisnet.org/amcis2018/TREOsPDS/Presentations/114/

*Conference Proceeding (Published)*
Tibeme, B., Shahriar, H. M., Zhang, C. (2018). *Process Mining Algorithms for Clinical Workflow Analysis* (pp. 6). IEEE Southeast Conference. https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=8479176Peer Review - Refereed

*Conference Proceeding*

Zhang, C., Shahriar, H. M. (2018). *Health Data Analytics: A Health IT Application Course* (pp. 163-163). SIGITE '18 Proceedings of the 19th Annual SIG Conference on Information Technology Education. https://dl.acm.org/citation.cfm?id=3241887Peer Review - Refereed

## Department of Software Engineering and Game Development

### Franklin, Michael (Assistant Professor)

#### *Conference Proceedings*

*Conference Proceeding (Published)*
Franklin, D. M. (2019). *Strategic Hierarchical Modeling and Simulation of Real-world Systems*. Oxford: Proceedings from International Conference on Digital Image & Signal Processing.

*Conference Proceeding (Published)*
Franklin, D. M., Martin, D. (2019). *eSense 2.0: Modeling Multi-agent Biomimetic Predation with Multi-layered Reinforcement Learning*. Cham: Springer.Peer Review - Refereed

*Conference Proceeding (Published)*
Franklin, D. M. (2019). *Hierarchical Modeling for Strategy-Based Multi-agent Multi-team Systems*. Cham: Springer.Peer Review - Refereed

#### *Other Intellectual Contributions*

*Published Abstract (Published)*
Franklin, D. M. (2018). In AAAI (Ed.), *eSense 2.0: Modeling Multi-Agent Biomimetic Predation with Multi-Layered Reinforcement Learning*. Palo Alto, CA: AAAI Proceedings from FLAIRS 31.Peer Review - Refereed

*Published Abstract (Published)*
Franklin, D. M. (2018). In AAAI (Ed.), *firstGlimpse: Learning How to Learn through Observation via Memory Modeling with Reinforcement Learning*. Palo Alto, CA: AAAI Proceedings from FLAIRS 31.Peer Review - Refereed

### Guo, Rongkai (Assistant Professor)

#### *Conference Proceedings*

*Conference Proceeding (Published)*
Mei, C., Guo, R. (2018). *Enable an Innovative Prolonged Exposure Therapy of Attention Deficits on Autism Spectrum through Adaptive Virtual Environments*. IEEE 2018 10th International Conference on Virtual Worlds and Games for Serious Applications (VS-Games).

*Conference Proceeding (Published)*
Murphy, N., Patel, D., Savas, D., Martin, D., Mei, C., Guo, R. (Published). *Recreating Virtual Environments from User Traffic Pattern*. IEEE 2018 10th International Conference on Virtual Worlds and Games for Serious Applications (VS-Games).

*Conference Proceeding (Accepted)*
Kim, K., Patel, D., Murphy, N., Guo, R. (in press). *Exploring Virtual and Mixed Reality Environments as Mobility Assistance for People with Visual Impairments*. 2019 The First IEEE VR Workshop on Smart Work Technologies.

*Conference Proceeding (Accepted)*

Rosengrant, D., Patel, D., Guo, R. (in press). *Pre-Service Elementary Teachers Using Augmented Reality to Learn about Force and Motion*. International Society for Technology in Education Conference Proceedings.

**Mei, Chao (Assistant Professor)**

***Non-Refereed Journal Articles***

*Journal Article, Academic Journal (Submitted)*
Mei, C. (under review). Recreating Virtual Environments From User Traffic Patterns. *Entertainment Computing*, .

***Conference Proceedings***

*Conference Proceeding (Published)*
Mei, C., Guo, R. (2018). *Enable an Innovative Prolonged Exposure Therapy of Attention Deficits on Autism Spectrum through Adaptive Virtual Environments*. IEEE 2018 10th International Conference on Virtual Worlds and Games for Serious Applications (VS-Games).

*Conference Proceeding (Published)*
Mei, C., Zahed, B., Mason, L., Quarles, J. (Published). *Towards Joint Attention Training for Children with ASD – A VR Game Approach and Eye Gaze Exploration*. IEEE.

*Conference Proceeding (Published)*
Murphy, N., Patel, D., Savas, D., Martin, D., Mei, C., Guo, R. (Published). *Recreating Virtual Environments from User Traffic Pattern*. IEEE 2018 10th International Conference on Virtual Worlds and Games for Serious Applications (VS-Games).

*Conference Proceeding (Not Accepted)*
Isaza, M., Zhang, J., Kim, K., Mei, C., Guo, R. (Not Accepted). *Mono-Stereoscopic Camera in a Virtual Reality Environment: Case Study in Cybersickness*.

*Conference Proceeding (Not Accepted)*
Cossairt, C., Guo, R., Mei, C. (Not Accepted). *A Virtual Realty Biking System to Increase the Motivation of Indoor Biking*.

**Meimandi Parizi, Reza (Assistant Professor)**

***Refereed Journal Articles***

*Journal Article, Academic Journal (Published)*
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*Conference Proceeding (Published)*
Qian, K., Lo, D., Meimandi Parizi, R., Wu, F., Agu, E., Chu, B.-T. (2018). *Authentic Learning Secure Software Development (SSD) in Computing Education*. IEEE Frontiers in Education (FIE 2018).Peer Review - Refereed

*Conference Proceeding (Published)*
Spoletini, P., Meimandi Parizi, R. (2018). Bias-aware guidelines and fairness-preserving Taxonomy in software engineering education. *48th IEEE Annual Frontiers in Education (FIE)*.Peer Review - Refereed

*Conference Proceeding (Published)*
Meimandi Parizi, R., Spoletini, P., Singh, A. (2018). Measuring Team Members' Contributions in Software Engineering Projects using Git-driven Technology. *48th IEEE Annual Frontiers in Education (FIE)*.Peer Review - Refereed

*Conference Proceeding (Published)*
Meimandi Parizi, R., Guo, L., Bian, Y., Dehghantanha, A., Choo, K.-K. (2018). *CyberPDF: Smart and Secure Coordinate-based Automated Health PDF Data Batch Extraction*. IEEE/ACM 3rd International Conference on Connected Health: Applications, Systems and Engineering Technologies.Peer Review - Refereed

*Conference Proceeding (Published)*
Meimandi Parizi, R., Dehghantanha, A. (2018). *On the Understanding Gamification in Blockchain Systems*. The IEEE 6th International Conference on Future Internet of Things and Cloud.Peer Review - Refereed

*Conference Proceeding (Published)*
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*Conference Proceeding (Published)*
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*Conference Proceeding (Published)*
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*Conference Proceeding (Published)*

Tao, L., Qian, K., Lo, D., Meimandi Parizi, R., Wu, F., Chu, B.-T. (2018). *Enhancing Secure Software Development Education Through Relevant Active Learning*. IEEE SoutheastCon 2018.Peer Review - Refereed

***Other Intellectual Contributions***

*Magazine/Trade Publication (Published)*
Zhang, Q., Meimandi Parizi, R., Choo, K.-K. (2018). *A Pentagon of Considerations Towards More Secure Blockchains*. IEEE Blockchain Technical Briefs.Editorial Review

**Pournaghshband, Hassan (Professor)**

***Conference Proceedings***

*Conference Proceeding (Published)*
Pournaghshband, H., Movafaghi, S. (2018). *Lab Based Curriculum for CIS and Related Technology* (pp. 5). o The 14th International Conference on Frontiers in Education.Peer Review - Refereed

*Conference Proceeding (Published)*
Pournaghshband, H. (2018). *Students' Motivation in Undergraduate Courses* (pp. 4). the International Multi-Conference on Complexity, Informatics and Cybernetics.Peer Review - Refereed

*Conference Proceeding (Accepted)*
Pournaghshband, H. (in press). *The Melding of Six Sigma & Software Project Planning*. Future Technologies Conference (FTC) 2019.

**Preston, Jon (Professor)**

***Conference Proceedings***

*Conference Proceeding (Published)*
Fowler, A., Ni, X. S., Preston, J. A. (2018). The Pedagogical Potential of Game Jams. *SIGITE'18: PROCEEDINGS OF THE 19TH ANNUAL SIG CONFERENCE ON INFORMATION TECHNOLOGY EDUCATION* (pp. 112-116). NEW YORK: ASSOC COMPUTING MACHINERY.Peer Review - Refereed

**Spoletini, Paola (Professor)**

***Book Chapters***

*Book, Chapter in Scholarly Book-New (Published)*
Spoletini, P., Ferrari, A., Bano, M., Zowghi, D., Gnesi, S. (2018). Interview Review: An Empirical Study on Detecting Ambiguities in Requirements Elicitation Interviews. *Requirements Engineering: Foundation for Software Quality* (pp. 101-118). Springer International Publishing. http://dx.doi.org/10.1007/978-3-319-77243-1_7Peer Review - Refereed

*Book, Chapter in Scholarly Book-New (Published)*
Menghi, C., Spoletini, P., Chechik, M., Ghezzi, C. (2018). Supporting Verification-Driven Incremental Distributed Design of Components. *Fundamental Approaches to Software*

*Engineering* (pp. 169-188). Springer International Publishing. http://dx.doi.org/10.1007/978-3-319-89363-1_10

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Nacci, A. A., Rana, V., Balaji, B., Spoletini, P., Gupta, R., Sciuto, D., Agarwal, Y. (2018). BuildingRules: A Trigger-Action-Based System to Manage Complex Commercial Buildings. *ACM TRANSACTIONS ON CYBER-PHYSICAL SYSTEMS, 2*(2), .Peer Review - Refereed

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Gnesi, S., Plat, N., Spoletini, P., Pelliccione, P. (2018). Message from the PC and General Chairs of FormaliSE 2018.

### *Conference Proceedings*

*Conference Proceeding (Published)*
Bano, M., Zowghi, D., Ferrari, A., Spoletini, P., Donati, B. (2018). Learning from Mistakes: An Empirical Study of Elicitation Interviews Performed by Novices. *2018 IEEE 26th International Requirements Engineering Conference (RE)*. IEEE. http://dx.doi.org/10.1109/re.2018.00027

*Conference Proceeding (Published)*
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*Conference Proceeding (Published)*
Meimandi Parizi, R., Spoletini, P., Singh, A. (2018). Measuring Team Members' Contributions in Software Engineering Projects using Git-driven Technology. *48th IEEE Annual Frontiers in Education (FIE)*.Peer Review - Refereed

*Conference Proceeding (Published)*
Hertz, K., Spoletini, P. (2018). Are Requirements Engineering Courses Covering what Industry Needs? A Preliminary Analysis of the United States Situation. *2018 IEEE 8th International Workshop on Requirements Engineering Education and Training (REET)*. IEEE. http://dx.doi.org/10.1109/reet.2018.00008

## Uncategorized Department

### Lee, Ah young

#### *Refereed Journal Articles*

*Journal Article, Public or Trade Journal (Published)*
Lee, A., Wang, X., Nguyen, N., Ra, I. (2018). A Hybrid Software Defined Networking Architecture for Next-Generation IoTs. *KSII Transactions on Internet and Information Systems, 12*(2), 932-945, ., http://www.itiis.org/digital-library/manuscript/1944Peer Review - Refereed

*Journal Article, Professional Journal (Accepted)*
Lee, A., Lee, A., Kim, S. (2019). P2P Computing for Trusted Networking of Personalized IoT Services. *To appear in Journal of the Peer-to-Peer Networking and Applications, Springer*, .Peer Review - Refereed

*Journal Article, Public or Trade Journal (Submitted)*
Lee, A., Lee, A. (under review). A Load Balancing Algorithm for Flow Management on Hybrid Software-Defined Networking (Hybrid-SDN). *Journal of Future Internet in MDPI*, .Peer Review - Refereed

*Journal Article, Public or Trade Journal (In Preparation; Not Yet Submitted)*
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#### *Conference Proceedings*

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Lee, A., Kim, D.-Y., Kim, S. (2018). *Avoiding Congestion Channel in LPWA for Delay-Tolerant IoT Devices*. 13th APIC-IST.Peer Review - Refereed

*Conference Proceeding (Accepted)*
Lee, A., Lee, A., Kim, S. (2018). *A Load-Balancing Unicast-Routing algorithms in Software-Defined Networking*. The 10th International Conference on Internet (ICONI 2018).Peer Review - Refereed

*Conference Proceeding (Accepted)*
Lee, A., Lee, A., Kim, S. (2018). *Smart Home Appliances Controlling by Gesture Using Camera*. The 10th International Conference on Internet (ICONI 2018).Peer Review - Refereed

*Conference Proceeding (Accepted)*
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*Conference Proceeding (Accepted)*

Lee, A., Wang, P., Lin, S.-C., Akyildiz, I. F., Luo, M. (2018). *Dynamic Bandwidth Allocation in SDN based Next Generation Virtual Networks: A Deterministic Network Calculus Approach (Double-blind peer review process)*. ACM RACS2018.Peer Review - Refereed

**Valero de Clemente, Maria**

***Conference Proceedings***

*Conference Proceeding (Published)*
Valero, M. A., Li, F., Song, W., Li, X. (2018). Imaging Subsurface Civil Infrastructure with Smart Seismic Network. *IEEE International Performance Computing and Communications Conference (IPCCC)*.