

Department of Computer Science, Publications for the Academic Year May 2018 to May 2019

Journal Publications

1. Abualsamid, A.* and **Charles E. Hughes**⁺. "Using a Mobile App to Reduce Off-Task Behaviors in Classrooms: A Pilot Study." *Journal on Technology and Persons with Disabilities*, Vol. 6, pp. 378-384. <http://hdl.handle.net/10211.3/203008>
2. Alshboul, M.* , Hussein Elnawawy*, Reem Elkhoully, Keiji Kimura, James Tuck and **Yan Solihin**. "Efficient Checkpointing with Recompute Scheme for Non-volatile Main Memory," to appear, *ACM Transactions on Architectures and Code Optimization (TACO)*, Vol. 16, Issue 2, May 2019. <https://doi.org/10.1145/3323091>
3. Attiah, A.* , Muhammad Faisal Amjad*, **Mainak Chatterjee** and **Cliff Zou**. "An Evolutionary Routing Game for Energy Balance in Wireless Sensor Networks", in *Elsevier Computer Networks (COMNET)*, Volume 138, 19 June 2018, Pages 31-43. <https://doi.org/10.1016/j.comnet.2018.03.032>
4. Bao, Y.* , Gary T. **Leavens** and Gidon Ernst. "UFRL: Unifying Separation Logic and Region Logic to allow Interoperability," *Formal Aspects of Computing*, Vol 30, number 3–4, pp. 381–441, August 2018. <https://dx.doi.org/10.1007/s00165-018-0455-5>
5. Barmaki, R.* and Charles E. **Hughes**⁺. (2018). Embodiment Analytics of Practicing Teachers in a Virtual Immersive Environment. *Journal of Computer Assisted Learning*, Vol 34 (4), pp. 387–396, May 2018. <https://onlinelibrary.wiley.com/doi/abs/10.1111/jcal.12268>
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7. Choi Y, Anirban Banerjee, Sean McNish, Kara S. Couch, Manolito G. Torralba, Sarah Lucas, Andrey Tovchigrechko, Ramana Madupu, **Shibu Yooseph**, Karen E. Nelson, Victoria K. Shanmugam⁺ and Agnes P. Chan⁺. "Co-occurrence of Anaerobes in Human Chronic Wounds," *Microbial Ecology*, Vol. 77, Num. 3, pp. 808-820, April 2019. <http://dx.doi.org/10.1007/s00248-018-1231-z>
8. **Da Vitoria Lobo, N.** and **Mubarak A. Shah**. "UCF's 30-Year REU Site in Computer Vision", *Communications of the ACM*, January 2019, Vol. 62, num. 1, pages 31-34, December 2019. <https://doi.org/10.1145/3201403>
9. Dang, F., Ennan Zhai, Zhenhua Li, Pengfei Zhou, **Aziz Mohaisen**⁺, Kaigui Bian, Qingfu Wen and Mo Li. "Pricing Data Tampering in Automated Fare Collection with NFC-Equipped Smartphones". *IEEE Transactions on Mobile Computing (IEEE TMC)*, Vol. 18, Issue 5, pp. 1159 – 1173, May 2019. <https://doi.org/10.1109/TMC.2018.2853114>
10. Davoudi, A.* and **Mainak Chatterjee**, "Social Trust Model for Rating Prediction in Recommender Systems: Effects of Similarity, Centrality, and Social Ties", *Elsevier Online Social Networks and Media*, Volume 7, pp. 1-11, Sept. 2018. <https://doi.org/10.1016/j.osnem.2018.05.001>
11. Debroy, S.* , Priyanka Samanta, Amina Bashir and **Mainak Chatterjee**. "SpEED-IoT: Spectrum Aware Energy Efficient Routing for Device-to-Device IoT Communication", *Elsevier Future Generation Computer Systems*, Vol. 93, pp. 833-848, April 2019. <https://doi.org/10.1016/j.future.2018.01.002>

12. **Dutton, R. D.** and Robert C. Brigham, "Color Class Sizes of Triangle-Free Graphs," *Journal of Combinatorial Mathematics and Combinatorial Computing*, Volume 104, pp. 231-244, Feb., 2018.
13. Edlund, A., Youngik Yang, **Shibu Yooseph**, Xuesong He, Wenyuan Shi and Jeffrey S. McLean. "Uncovering complex microbiome activities via metatranscriptomics during 24 hours of oral biofilm assembly and maturation," *Microbiome*, Vol. 6, Article num. 217, December 2018. <https://doi.org/10.1186/s40168-018-0591-4>
14. Ganguly, A., Manish Patil, Rahul Shah and **Sharma V. Thankachan**+, "A Linear Space Data Structure for Range LCP Queries," *Fundamenta Informaticae*, Vol. 163, No. 3, pp. 245—251, November 2018. <https://doi.org/10.3233/FI-2018-1741>
15. Guo, N., Junzhou Luo, Zhen Ling, Ming Yang, Wenjia Wu and **Xinwen Fu**+, "Your Clicks Reveal Your Secrets: A Novel User-device Linking Method Through Network and Visual Data", *Multimedia Tools and Applications (MTA)*, Vol. 78, no. 7, pp. 8337–8362, April 2019. <https://doi.org/10.1007/s11042-018-6815-6>
16. Hassen, A.U.* , Daipayan Chakraborty* and **Sumit Kumar Jha**+. "Free Binary Decision Diagram Based Synthesis of Compact Crossbars for In-Memory Computing," *IEEE Transactions on Circuits and Systems II*, Vol. 65, no. 5, pp. 622-626, April 2018. <https://doi.org/10.1109/TCSII.2018.2821678>
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18. Hooshmand, S.* , Paniz Abedin* , Neda Tavakoli and **Sharma V. Thankachan**, "On Computing Average Common Substring Over Run Length Encoded Sequences," *Fundamenta Informaticae*, Vol. 163, Issue 2, 267—273, 2018. <https://doi.org/10.3233/FI-2018-1743> [10.3233/FI-2018-1743](https://doi.org/10.3233/FI-2018-1743)
19. Huang, M.X.* , Jijia Li* , Grace Ngai+ , Hong Va Leong and **Kien A. Hua**+, "Fast-PADMA: Rapidly Adapting Facial Affect Model from Similar Individuals," in *IEEE Transactions on Multimedia*, Vol. 20, Issue 7, pp. 1901-1915, July 2018. <https://doi.org/10.1109/TMM.2017.2775206>
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21. Irmakci, I. * , Sarfaraz Hussein* , Aydogan Savran, Rita Kalyani, David Reiter, Chee W. Chia, Kenneth W. Fishbein, Richard G. Spencer, Luigi Ferruci and **Ulas Bagci**+. "A Novel Extension to Fuzzy Connectivity for Body Composition Analysis: Applications in Thigh, Brain, and Whole-Body Tissue Segmentation." *IEEE Transactions on Biomedical Engineering*, Vol. 66, Issue 4, pp. 1069-1081, April 2019. <https://doi.org/10.1109/TBME.2018.2866764>
22. Izadpanah, R.* , Benjamin A. Allan, **Damian Dechev** and Jim Brandt. "Production Application Performance Data Streaming for System Monitoring," *ACM Transactions on Modeling and Performance Evaluation of Computing Systems (ACM TOMPECS)*, Vol. 4, no. 2, April, 2019. <https://doi.org/10.1145/3319498>
23. Jang, R.* , Jeonil Kang, **Aziz Mohaisen**+ and DaeHun Nyang. "Catch Me If You Can: Rogue Access Point Detection Using Intentional Channel Interference," *IEEE Transactions on Mobile Computing (IEEE TMC)*, 2019. <https://doi.org/10.1109/TMC.2019.2903052>
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28. Khan, F.A.* , Sehar Butt, Saad Ahmed Khan, **Ladislau Bölöni** and **Damla Turgut**⁺, "Value of Information based Data Retrieval in UWSNs", *Sensors*, Vol. 18, num. 10, Article num. 3414, October 2018. <https://www.mdpi.com/1424-8220/18/10/3414>
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31. Li, X.* , Saleh A. Naser, Annette Khaled A, **Haiyan Hu**⁺ and Xiaoman Li⁺. "When old metagenomic data meet newly sequenced genomes, a case study" *PLOS One*, Vol. 13, Num. 6, Article e0198773, June 2018. <https://doi.org/10.1371/journal.pone.0198773>
32. Li, Y., Roberto Tinoco, Lisa Elmén, Igor Segota, Yibo Xian, Yu Fujita, Avinash Sahu, Raphy Zarecki, Kerrie Marie, Yongmei Feng, Ali Khateb, Dennie T. Frederick, Shiri K. Ashkenazi, Hyungsoo Kim, Eva Guijarro Perez, Chi-Ping Day, Rafael S. Segura Muñoz, Robert Schmaltz, **Shibu Yooseph**, Miguel A. Tam, Tongwu Zhang, Emily Avitan-Hersh, Lihi Tzur, Shoshana Roizman, Ilanit Boyango, Gil Bar-Sela, Amir Orian, Randal J. Kaufman, Marcus Bosenberg, Colin R. Goding, Bas Baaten, Mitchell P. Levesque, Reinhard Dummer, Kevin Brown, Glenn Merlino, Eytan Ruppim, Keith Flaherty, Amanda Ramer-Tait, Tao Long, Scott N. Peterson, Linda M. Bradley and Ze'ev A. Ronai⁺. "Gut microbiota dependent anti-tumor immunity restricts melanoma growth in Rnf5(-/-) mice." *Nature Communications*, Vol. 10, no. 1, Article 1492, April 2019. <https://doi.org/10.1038/s41467-019-09525-y>
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36. Ma, H., Li-Chun Tu, Yu-Chieh Chung, Ardalan Naseri*, David Grunwald, **Shaojie Zhang** and Thoru Pederson⁺. "Cell cycle—and genomic distance—dependent dynamics of a discrete chromosomal region." *Journal of Cell Biology*, jcb-201807162, Vol. 218, Num. 5, March 2019. <http://jcb.rupress.org/content/218/5/1467>
37. Ma, H.⁺, Li-Chun Tu, Ardalan Naseri*, Yu-Chieh Chung, David Grunwald, **Shaojie Zhang** and Thoru Pederson. "CRISPR-Sirius: RNA scaffolds for signal amplification in genome imaging." *Nature Methods*, Vol. 15, pp. 928–931, October 2018. <https://doi.org/10.1038/s41592-018-0174-0>.

38. **Meade, T.***, Kaveh Shamsi, Thao Le, Jia Di, **Shaojie Zhang** and Yier Jin⁺. "The Old Frontier of Reverse Engineering: Netlist Partitioning," *Journal of Hardware and Systems Security (HASS)*, Vol. 2, Num. 3, pp. 201-213, September 2018. <https://doi.org/10.1007/s41635-018-0043-4>
39. **Mohaisen, A.***, Omar Alrawi, Jeman Park*, Joongheon Kim, Daehun Nyang and Manar Mohaisen. "Network-based analysis and classification of malware using behavioral artifacts ordering," *EAI Endorsed Transactions on Security and Safety*, Vol 5, Num. 16, Dec. 2018. <https://eudl.eu/doi/10.4108/eai.13-7-2018.156002>
40. **Mohaisen, A.***, Zhongshu Gu, Kui Ren, Zhenhua Li, Laurent Njilla, Charles Alexandre Kamhoua and Daehun Nyang. "Look-Aside at Your Own Risk: Privacy Implications of DNSSEC Look-aside Validation". *IEEE Transactions on Dependable and Secure Computing (TDSC)*, Vol. 99, pp. 1-1, 2018. <https://doi.org/10.1109/TDSC.2018.2816026>
41. Nyang, D., Hyoungshick Kim, Woojoo Lee, Sung-bae Kang, Geumhwan Cho, Mun-Kyu Lee and **Aziz Mohaisen+** "Two-Thumbs-Up: Physical protection for PIN entry secure against recording attacks", *In Elsevier Computers & Security (COSE)*, Volume 78, Pages 1-15, September 2018. <https://doi.org/10.1016/j.cose.2018.05.012>
42. Page, X., Paritosh Bahirat*, Muhammad I. Safi*, Bart P. Knijnenburg and Pamela **Wisniewski**⁺. "'The Internet of What?' Understanding Differences in Perceptions and Adoption for the Internet of Things," *Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT)*, Vol. 2, Num. 4, December 2018. <https://doi.org/10.1145/3287061>
43. Petegrosso, R., Zhuliu Li*, Molly A. Srour*, Yousef Saad⁺, **Wei Zhang**⁺ and Rui Kuang⁺. "Scalable Remote Homology Detection and Fold Recognition in Massive Protein Networks," *PROTEINS: Structure, Function, and Bioinformatics*, Vol. 87, Issue 6, pp. 478-491, February 2019. <https://doi.org/10.1002/prot.25669>
44. Pirkelbauer, P., Amalee Wilson, Christina Peterson* and **Damian Dechev**. "Blaze-Tasks: A Portable and Scalable Framework for Computing Parallel Reductions over Tasks," *ACM Transactions on Architecture and Code Optimization (ACM TACO)*, Vol. 15, no. 4, Article 66, January 2019. Also presented at the *HiPEAC* conference. <https://doi.org/10.1145/3293448>
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46. Shamsi, K.* , **Travis Meade**⁺, Meng Li*, David Z. Pan⁺ and Yier Jin⁺, "On the Approximation Resiliency of Logic Locking and IC Camouflaging Schemes," *IEEE Transactions on Information Forensics and Security*, Vol. 14, Num. 2, pp. 347-359, February 2019. <https://doi.org/10.1109/TIFS.2018.2850319>
47. **Solihin, Y.**, Persistent Memory: Abstractions, Abstractions, and Abstractions, *IEEE MICRO*, Vol. 39, Num. 1, pp. 65-66, January 2019. <https://doi.ieeecomputersociety.org/10.1109/MM.2018.2885589>
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53. Vaca-Castano, G.* , **Niels DaVitoria Lobo** and **Mubarak Shah**, “Holistic Object Detection and Image Understanding”, *Computer Vision and Image Understanding*, Vol. 181, pp. 1-13, April 2019. <https://doi.org/10.1016/j.cviu.2019.02.006>
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58. Xu, J.* , Rouhallah Rahmatizadeh, **Ladislau Bölöni** and **D. Turgut**[†], “Real-time prediction of Taxi Demand Using Recurrent Neural Networks,” *IEEE Transactions on Intelligent Transportation Systems*, Vol. 19, Issue 8, pp. 2572-2581, August 2018. <https://doi.org/10.1109/TITS.2017.2755684>
59. Xu, Z. * , Gao, M., Papadakis, GZ., Luna, B., Jain, S., Mollura, D., **Bagci, U**[†]. “Joint Solution for PET Image Segmentation, Denoising, and Partial Volume Correction,” *Medical Image Analysis*, Vol. 46, pp., 229-243, May 2018. <https://doi.org/10.1016/j.media.2018.03.007>
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Books

1. Andre, E., Sven Koenig, Mehdi Dastani and **Gita Sukthankar**, editors. *Proceedings of the 17th International Conference on Autonomous Agents and MultiAgent Systems, Stockholm, Sweden*. ACM, July 2018. [ISBN: 978-1-4503-5649-7](https://doi.org/10.1145/3209690)
2. Kulshreshth, A. K. and Joseph J. **LaViola Jr.** *Designing Immersive Video Games Using 3DUI Technologies: Improving the Gamer’s User Experience*, Springer, July 2018. [ISBN: 978-3-319-77952-2](https://doi.org/10.1007/978-1-4939-9795-2)
3. Lakkaraju, K., **Gita Sukthankar**, and Rolf T. Wigand, editors. *Social Interactions in Virtual Worlds*. Cambridge University Press, June 2018. [ISBN: 9781316422823](https://doi.org/10.1017/9781316422823)
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Book Chapters

1. Abualsamid, A.* and Charles E. **Hughes**†. “Modeling Augmentative Communication with Amazon Lex and Polly,” in Ahram, T., Falcão, C. (eds.), *Advances in Usability, User Experience and Assistive Technology (AHFE 2018)*, pp. 871-879. *Advances in Intelligent Systems and Computing*, Vol. 794, Springer, Cham. https://doi.org/10.1007/978-3-319-94947-5_85
2. Alireza H.* , **Gita Sukthankar**, Kiran Lakkaraju, Hamidreza Alvari*, Rolf T. Wigand and Nitin Agarwal. “Using massively multiplayer online game data to analyze the dynamics of social interactions,” in Kiran Lakkaraju, **Gita Sukthankar** and Rolf T. Wigand (eds.), *Social Interaction in Virtual Worlds*. Cambridge University Press, June 2018. <https://doi.org/10.1017/9781316422823.015>
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7. Norouzi, N., Gerd Bruder, Brando Belna, Stephanie Mutter, **Damla Turgut** and **Greg Welch**. “A Systematic Review of the Convergence of Augmented Reality Intelligent Virtual Agents, and the Internet of Things”, in Al-Turjman, F., editor, *Artificial Intelligence in IoT*, pp. 1-24, Springer Transactions on Computational Science and Computational Intelligence Series, February 2019. https://doi.org/10.1007/978-3-030-04110-6_1
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9. Saad, M.* , Jeffrey Spaulding*, Laurent Njilla, Charles A. Kamhoua, DaeHun Nyang and **Aziz Mohaisen**†. “Exploring the Attack Surface of Blockchain,” in Sachin Shetty, Charles Kamhoua, Laurent Njilla, editors, *Blockchain for Distributed Systems*. IEEE Press, March 2019. <https://doi.org/10.1002/9781119519621.ch3>
10. Saad, M.* , Laurent Njilla, Charles A. Kamhoua, Kevin Kwiat and **Aziz Mohaisen**†. “Shocking Blockchain’s Memory with Unconfirmed Transactions: New DDoS Attacks and Countermeasures,” in Sachin Shetty, Charles Kamhoua, Laurent Njilla, editors, *Blockchain for Distributed Systems*, IEEE Press, March 2019. <https://doi.org/10.1002/9781119519621.ch10>
11. **Sukthankar, G.** and Rahmatollah Beheshti*, “Using agent based models to understand health-related social norms,” in Paul Davis, Angela O’Mahony and Jonathan Pfautz, editors, *Social Behavioral Modeling for Complex Systems*, Chapter 27, pp. 633-654, Wiley, April 2019.

Conference Papers in Conferences with Published Proceedings

1. Abedin, P. *, Sahar Hooshmand*, Arnab Ganguly and **Sharma V. Thankachan**+. “The Heaviest Induced Ancestors Problem Revisited,” *Annual Symposium on Combinatorial Pattern Matching, CPM 2018*, July 2-4, 2018 - Qingdao, China, pages 20:1-20:13, 2018, <https://dx.doi.org/10.4230/LIPIcs.CPM.2018.20>
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