School of Computing and Informatics

Summary

The School of Computing and Informatics (CMIX) was formed in 2011, based on the well-established computer science and engineering programs and the emerging informatics program. The School consists of three degree-granting units: The Computer Science Program (CMPS), The Informatics Program (INFX), and The Center for Advanced Computer Studies (CACS). It offers seven degrees: B.S. in Computer Science, B.S. in Informatics, M.S. in Informatics, M.S. and Ph.D. in Computer Science, and M.S. and Ph.D. in Computer Engineering. The School currently houses 28 (including 22 tenure-track/tenured and 6 non-tenure-track) faculty members. During the Fall 2018 semester, 715 undergraduate students, 65 Master's students and 81 Ph.D. students were enrolled in the School's degree programs. The mission of the School is to create, share, and apply knowledge in Computing and Informatics, including in interdisciplinary areas that benefit humanity and society; to educate students from diverse backgrounds to be successful, ethical, and effective problem-solvers and professional leaders who will contribute positively to our university, state, nation and the world.

This report summarizes the research and professional activities in the School between January 2014 and December 2018. Briefly, the School of Computing and Informatics (CMIX) faculty produced the following:

- 6 patents,
- 15 books and edited volumes,
- 13 book chapters,
- 89 journal papers, and
- 120 conference papers.

Most papers have been published in premier journals and conferences with highly competitive acceptance rates. The faculty members have been invited to speak in various academic and industrial meetings, delivering a total of over 58 technical talks and demonstrations.

The research in the School has been funded extensively by federal agencies such as NSF, DoD, and DoE and by industrial sponsors, with a total of over $10 million new research grants secured between 2014 and 2018.

The School's faculty members have been highly active in professional services. Since 2014, they have served on 44 journal editorial boards, over 100 conference technical committees, and numerous NSF panels.

The achievements of the faculty have been recognized by several awards, including three IEEE Fellows, six NSF CAREER Awards, and a UL Lafayette Distinguished Professor Award.

Publications, Presentations, Editorships, and Talks

Books Published

1. **Jin, M.**, Gu, X., He, Y., & Wang, Y. (eds). (2018). *Conformal Geometry: Computational Algorithms and Engineering Applications*. Cham, Switzerland: Springer International. doi:10.1007/978-3-319-75332-4
2. **Kulshreshth, A.**, & LaViola, J.J. (eds). (2018). *Designing Immersive Video Games Using 3DUI Technologies*. *Human-Computer Interaction Series*. Cham, Switzerland: Springer International. doi:10.1007/978-3-319-77953-9
3. **Raghavan, V.**, Aluru, S., Karypis, G., Miele, L., & **Wu, X.** (eds). (2017). *2017 IEEE International Conference on Data Mining (ICDM), 2017, New Orleans, LA, November 18-21, 2017.* Los Alamitos, CA: IEEE Computer Society.
4. Gottumukkala, R., Ning, X., Dong, G., **Raghavan, V.**, Aluru, S., Karypis, G., Miele, L., & Wu, X., (eds). (2017). *2017 IEEE International Conference on Data Mining Workshops (ICDMW), New Orleans, LA, November 18-21, 2017.* Los Alamitos, CA: IEEE Computer Society.
5. **Wu, X.**, Ozsu, T., Hendler, J., & Lu, R. (eds). (2017). *2017 IEEE International Conference on Big Knowledge (ICBK), August 9-10, 2017, Hefei, China*. Los Alamitos, CA: IEEE Computer Society.
6. Bonchi, F., Domingo-Ferrer, J., Baeza-Yates, R.A., Zhou, Z.-H., & **Wu, X.** (2016). *2016 IEEE 16th International Conference on Data Mining (ICDM), Barcelona, Spain, December 12-15, 2016*. Los Alamitos, CA: IEEE Computer Society.
7. Najjar, M.A., Ghantous, M., & **Bayoumi, M.** (eds). (2014). *Video Surveillance for Sensor Platforms: Algorithms and Architectures. Lecture Notes in Electrical Engineering*. **114**. New York, NY: Springer. doi:10.1007/978-1-4614-1857-3
8. Elarabi, T., Abdelgawad, A., & **Bayoumi, M.** (eds). (2014). *Real-Time Heterogeneous Video Transcoding for Low-Power Applications*. Cham, Switzerland: Springer. doi:10.1007/978-3-319-06071-2
9. **Dasgupta, S.** (2014). *It Began with Babbage: The Genesis of Computer Science*. New York, NY: Oxford University Press.
10. **Dasgupta, S.** (2014). *Computer Science: A Very Short Introduction*. New York, NY: Oxford University Press.
11. **Jin**, **M.,** Gu, X., He, Y., Wang, Y. (eds). (2014). *Conformal Geometry: Computational Algorithms and Engineering Applications*. Cham, Switzerland: Springer. doi:10.1007/978-3-319-75332-4
12. **Dasgupta, S.** (2013). *The Golden Jubilee*. Bhopal, India: Amaryllis

Book Chapters

1. Zobaed, S. M., & **Amini Salehi, M.** (2018). Big Data in the Cloud. In: Zomaya, A., Sakr, S. (eds). *Encyclopedia of Big Data Technologies*. Cham, Switzerland: Springer. doi:10.1007/978-3-319-63962-8_40-1
2. **Jin, M.**, & Wu, H. (2018) Localization in 3D Surface Wireless Sensor Networks. In:

Shen, X., Lin, X., Zhang, K. (eds). *Encyclopedia of Wireless Networks*. Cham, Switzerland: Springer. doi:10.1007/978-3-319-32903-1

3. Xie, Y., Le, L., Zhou, Y., & **Raghavan, V.V.** (2018). Chapter 10: *Deep Learning for Natural Language Processing. In: Gudivada, V.N., & Rao, C.R. (eds). Computational Analysis and Understanding of Natural Languages: Principles, Methods and Applications. Handbook of Statistics*, **38**, 317-328. Amsterdam: Elsevier. 10.1016/bs.host.2018.05.001
4. Poola, D., **Amini Salehi, M.**, Ramamohanarao, K., & Buyya, R. (2017). Chapter 15: A Taxonomy and Survey of Fault-Tolerant Workflow Management Systems in Cloud and Distributed Computing Environments. In: Mistrik, I., Bahsoon, R., Ali, N., Heisel, M., Maxim, B. (eds). *Software Architecture for Big Data and the Cloud*, 285-320. Cambridge, MA: Elsevier. doi:10.1016/B978-0-12-805467-3.00015-6
5. **Maida, A.** (2016). Chapter 2: Cognitive Computing and Neural Networks: Reverse Engineering the Brain. In: Gudivada, V.N., Raghavan, V.V., Govindaraju,V., Rao, C. R. (eds). *Cognitive Computing: Theory and Applications. Handbook of Statistics*, **35**, 39-78. Oxford, England: Elsevier. doi:10.1016/bs.host.2016.07.011
6. Pusala, M.K., **Amini Salehi, M.**, Katukuri, J.R., Xie, Y., & Raghavan, V.V. (2016). Massive Data Analysis: Tasks, Tools, Applications and Challenges. In: Pyne, S., Rao, B., Rao, S. (eds). *Big Data Analytics*, 11-40. New Delhi, India: Springer. doi:10.1007/978-81-322-3628-3_2
7. **Dasgupta, S.** (2016). From Sciences of the Artificial to Cognitive History. In: Frantz, R. & Marsh, L. (ed), *Minds, Models and Milieux: Commemorating the Centenary of Herbert Simon's Birth*, 60-70. London: Palgrave Macmillan. doi:10.1057/9781137442505_4
8. **Logananthara j, R.** & Randall, T.A. (2016). Chapter 12: An Overview and comparison of tools for RNA-seq assembly. In: Măndoiu, I. & Zelikovsky, A. (eds). *Computational Methods for Next Generation Sequencing Data Analysis*, 269-286. doi:10.1002/9781119272182.ch12
9. LeDoux, C. & **Lakhotia, A.** (2015). Malware and Machine Learning. In: Yager, R., Reformat, M., Alajlan, N. (eds). *Intelligent Methods for Cyber Warfare. Studies in Computational Intelligence,* **563**, 1-42. Cham, Switzerland: Springer. doi:10.1007/978-3-319-08624-8_1
10. Shah, B., Benton, R., Wu, Z., & **Raghavan, V.V.** (2015). A Comprehensive Granular Model for Decision Making with Complex Data. In: Pedrycz, W., Chen, S. M. (eds). *Granular Computing and Decision-Making*. *Studies in Big Data*, **10**, 33-46. Cham, Switzerland: Springer. doi:10.1007/978-3-319-16829-6_2
11. Gudivada, V.N., Rao, D., & **Raghavan, V.V.** (2015). Chapter 9: Big Data Driven Natural Language Processing Research and Applications. In: Govindaraju, V., Raghavan, V.V., Rao, C.R. (eds). *Big Data Analytics*. *Handbook of Statistics*, **33**, 203-238. Oxford, England: Elsevier. doi:10.1016/B978-0-444-63492-4.00009-5
12. Sherman, W.R., Kinsland, G.L., **Borst, C.W.**, Whiting, E., Schulze, J.P., Weber, P., Lin, A.Y.M., Chaudhary, A., Su,S., & Coming, D.S. (2014). Immersive Visualization for the Geological Sciences. In: Hale, K. S., Stanney, K.M. (eds). *Handbook of Virtual Environments: Design, Implementation, and Applications, Second Edition*, 1231-1264. Boca Raton, FL: CRC Press

13. Ruttenberg, B., Miles, C., Kellogg, L., Notani, V., Howard, M., LeDoux, C., **Lakhotia, A.**, & Pfeffer, A. (2014). Identifying Shared Software Components to Support Malware Forensics. In: Dietrich, S. (ed). *Detection of Intrusions and Malware, and Vulnerability Assessment. DIMVA 2014. Lecture Notes in Computer Science*, **8550**, 21-40. doi:10.1007/978-3-319-08509-8_2
14. **Amini Salehi, M.**, Abawajy, J., & Buyya, R. (2013). Taxonomy of Contention Management in Interconnected Distributed Computing Systems. In: Gonzalez, T., Diaz-Herrera, J. & Tucker, A. (eds). *Computing Handbook*. 1-48. Boca Raton, FL: CRC Press.
15. **Dasgupta, S.** (2013). Epistemic Complexity and the Sciences of the Artificial. In: Anderson, H., Dieks, D., Gonzalez, W.J., Uebel, T. & Wheeler, G. (eds). *New Challenges to Philosophy of Science*, **4**, 313-323. Dordrect, Netherlands: Springer. doi:10.1007/978-94-007-5845-2_25

Edited Volumes

1. Martis, R., Lin, H., Gurupur, V. **Islam, A.**, Fernandes, S. (eds). (2018). [Special Issue] *Recent Advances in Big Data Analytics, Internet of Things and Machine Learning. Future Generation Computer Systems*, **81**.
2. **Wu, X.** Editor-in-Chief, Springer Book Series on Advanced Information and Knowledge Processing (AI & KP), 2016-Present.
3. **Raghavan, V.V.** Editor-in-Chief. Technical Committee Bulletin, IEEE-CS for Intelligent Informatics, 2015.
4. **Raghavan, V.V.** Co-Editor-in-Chief. Web Intelligence Journal, 2015-Present.
5. **Raghavan, V.V.**, Gudivada, V. N., & Baeza-Yates, R., (Eds). (2015). [Special Issue] *IEEE Computer: Big Data Management*, **48**(3).
6. Govindaraju, V., **Raghavan, V.V.**, Rao, C.R. (eds). (2015). *Big Data Analytics*. *Handbook of Statistics*, **33**. Oxford, England: Elsevier.
7. Gudivada, V. N., **Raghavan, V.V.**, Govindaraju, V., Rao, C.R. (eds). (2015) *Cognitive Computing: Theory and Applications. Handbook of Statistics*, **35**, Oxford, England: Elsevier.
8. Han, G., Shu, L., Rodrigues, J.J.P., Kim, K., Lloret, J., **Wu, H.**, (eds). (2014). [Special Issue] *IEEE Sensors Journal: Advances in Underwater Acoustic Sensor Networks*. **14**(10).
9. **Wu, H.**, Editor. IEEE Internet of Things Journal, 2014.
10. **Wu, H.**, Associate Editor. IEEE Transactions on Parallel and Distributed Systems (TPDS), 2014.
11. **Wu, H.**, Area Editor. Elsevier Computer Communications, 2014.
12. **Wu, H.**, Editor. KSII Transactions on Internet and Information Systems, 2014.
13. **Wu, H.**, Editor. Journal of Mobile Computing (MC), 2014.
14. **Wu, H.**, Editor. International Journal of Ad Hoc & Sensor Wireless Networks (AHSWN), 2014.
15. **Raghavan, V.V.**, Associate Editor. ACM Transactions on Internet Technology, 2014-Present.

16. **Raghavan, V.V.**, Associate Editor. International Journal of Computer Science & Applications, 2014-Present.
17. **Raghavan, V.V.**, Associate Editor. Web Intelligence and Agent Systems (WIAS) Journal, 2013-2015.
18. **Raghavan, V.V.**, Hu, X., Lin, T. Y., Wah, B. W., Baeza-Yates. R.A., Fox G., Shahabi, C., Smith, M., Yang, Z., Ghani, R., Fan, W., Lempel, R., Nambiar, R. (eds). *2013 IEEE International Conference on Big Data*. *Santa Clara, CA, October 6-9, 2013.* Los Alamitos, CA: IEEE Computer Society.
19. **Raghavan, V.V.**, Ruegar, S., Yamaguchi, T., & Zhang, Y. (eds). (2013). *2013 IEEE/WIC/ACM International Conference on Web Intelligence. Atlanta, GA, November 17-20, 2013.* Los Alamitos, CA: IEEE Computer Society.
20. **Raghavan V.V.**, Hu X., Liau C.-J., & Treur J. (eds). (2013). *2013 IEEE/WIC/ACM International Joint Conferences on Web Intelligence (WI) and Intelligent Agent Technologies (IAT) Atlanta, GA, November 17-20, 2013.* Los Alamitos, CA: IEEE Computer Society.
21. Nagamalai, D., **Kumar, A.**, & Annamalai, A. (eds). (2013). *Advances in Computational Science, Engineering and Information Technology: Proceedings of the Third International Conference on Computational Science, Engineering and Information Technology, Turkey.*
22. **Kumar, A.** Editor-in-Chief, *International Journal of Embedded Systems and Applications (IJESA)*. Vol. 3, numbers 1-3, 2013.
23. **Raghavan, V.V.**, Editor-in-Chief. *Bulletin of the IEEE TC on Intelligent Informatics*, 2010-Present.

Journal Papers (Published or Accepted)

1. Darwich, M., **Amini Salehi, M.**, Beyazit, E., & Bayoumi, M. (2018). Cost-Efficient Cloud-Based Video Streaming Through Measuring Hotness. *The Computer Journal*, **62**(5), 614-656. doi:10.1093/comjnl/bxy057
2. Li, X., **Amini Salehi, M.**, Bayoumi, M., **Tzeng, N.,** & Buyya, R. (2018). Cost-Efficient and Robust On-Demand Video Transcoding Using Heterogeneous Cloud Services. *IEEE Transactions on Parallel and Distributed Systems*, **29**(3), 556-571. doi:10.1109/TPDS.2017.2766069
3. **Chen, L.**, Feng, Y., Li, B., & Li, B. (2018). Efficient Performance-Centric Bandwidth Allocation with Fairness Tradeoff. *IEEE Transactions on Parallel and Distributed Systems*, **29**(8), 1693-1706. doi:10.1109/TPDS.2018.2808202
4. **Chen, L.**, Liu, S., Li, B., & Li, B. (2018). Scheduling Jobs across Geo-Distributed Datacenters with Max-Min Fairness. *IEEE Transactions on Network Science and Engineering*, Early Access. doi:10.1109/TNSE.2018.2795580
5. Campora, J., **Chen, S.**, & Walkingshaw, E. (2018). Casts and costs: Harmonizing safety and performance in gradual typing. *Proceedings of the ACM on Programming Languages*, **2**(ICFP), 98. doi:10.1145/3236793
6. **Chen, S.**, & Erwig, M. (2018). Systematic identification and communication of type errors. *Journal of Functional Programming*, **28**, e2. doi:10.1017/S095679681700020X

7. Shan, L., Guo, B., Weng, D., Liu, Z., & **Chu, C.H.** (2018). Posteriori assessment of fracture propagation in refractured vertical oil wells by pressure transient analysis. *Journal of Petroleum Science and Engineering*, **168**, 8-16. doi:10.1016/j.petrol.2018.05.010
8. Zhang, S., Cao, H., Yang, S., Zhang, Y., & **Hei, X.** (2018). Sequential Outlier Criterion for Sparsification of Online Adaptive Filtering. *IEEE Transactions on Neural Networks and Learning Systems*, **29**(11), 5277-5291. doi:10.1109/TNNLS.2018.2795719
9. Zhang, S., Cao, H., Ye, Z., Zhang, Y., & **Hei, X.** (2018). An outlier detection scheme for dynamical sequential datasets. *Communications in Statistics - Simulation and Computation*, **48**(5),1450-1052. doi:10.1080/03610918.2017.1414249
10. Mei, J., **Islam, A.**, Moh'd, A., Wu, Y., & Milios, E. (2018). Statistical learning for OCR error correction. *Information Processing & Management*, **54**(6), 874-887. doi:10.1016/j.ipm.2018.06.001
11. Mei, J., **Islam, A.**, Moh'd, A., Wu, Y., & Milios, E. (2018). MiBio: A dataset for OCR post-processing evaluation. *Data in Brief*, **21**, 251-255. doi:10.1016/j.dib.2018.08.099
12. Rakib, M., **Islam, A.**, & Milios, E. (2018). Improving Text relatedness by incorporating Phrase relatedness with Word Relatedness. *Computational Intelligence*, **34**(3), 939-966. doi:10.1111/coin.12152
13. Tavanaei, A. & **Maida, A.S.** (2018). Taining a hidden Markov model with a Bayesian spiking neural network. *Journal of Signal Processing Systems*, **90**, 211-220. doi:10.1007/s11265-016-1153-2
14. Tavanaei, A., Masquelier, T., & **Maida, A**. (2018). Representation learning using event-based STDP. *Neural Networks*, **105**, 294-303. doi:10.1016/j.neunet.2018.05.018
15. Venna, S., Tavanaei, A., Gottumukkala, R., **Raghavan, V.**, **Maida, A.**, & Nichols, S. (2018). A novel data-driven model for real-time influenza forecasting. *IEEE Access*, **7,** 7691-7701. doi:10.1109/access.2018.2888585
16. Austin, W. & **Totaro, M.** (2018). Gender Differences in the Effects of Internet Access on Work Absenteeism in the US. *International Journal of Business and Social Science*, **9**(8). doi:10.30845/ijbss.v9n8p1
17. Nur, A.Y. & **Tozal, M.E.** (2018). Identifying Critical Autonomous Systems in the Internet. *The Journal of Supercomputing*, **74**(10), 4965-4985. doi:10.1007/s11227-018-2336-3
18. Nur, A.Y. & **Tozal, M.E.** (2018). Geography and Routing in the Internet. *ACM Transactions on Spatial Algorithms and Systems*, **4**(4), 11. doi:10.1145/3239162
19. **Tozal, M.E.** (2018). Policy-Preferred Paths in AS-level Internet Topology Graphs. *Theory and Applications of Graphs*, **5**(1), 3. doi:10.20429/tag.2018.050103
20. Nur, A.Y. & **Tozal, M.E.** (2018). Cross-AS (X-AS) Internet Topology Mapping. *Computer Networks*, **132**, 53-67. doi:10.1016/j.comnet.2018.01.011
21. Nur, A.Y. & **Tozal, M.E.** (2018). Record route IP traceback: Combating DoS Attacks and the Variants. *Computers & Security*, **72**, 13-25. doi:10.1016/j.cose.2017.08.012
22. Sigdel, P. & **Tzeng, N.-F.** (2018). Coalescing and Deduplicating Incremental Checkpoint Files for Restore-Express Multi-Level Checkpointing. *IEEE Transactions on Parallel and Distributed Systems*, **29**(12), 2713-2727. doi:10.1109/TPDS.2018.2844210

23. Shu, W. & **Tzeng, N.-F.** (2018). NUDA: Non-Uniform Directory Architecture for Scalable Chip Multiprocessors. *IEEE Transactions on Computers*, **67**(5), 740-747. doi:10.1109/TC.2017.2773061
24. You, D., Wu, X., Shen, L., He. Y., **Yuan, X.,** Chen, Z., Deng, S., & Ma, C. (2018). Online streaming feature selection via conditional independence. *Applied Sciences*, **8**(12), 2548. doi:10.3390/app8122548
25. Zeng, H., Qin, X., **Yuan, X.**, Tian, F., Hou, Y.T., Lou, W., & Midkiff, S.F. (2018). On multicast throughput in multi-hop MIMO networks with interference alignment. *IEEE Transactions on Vehicular Technology*, **67**(7), 6627-6641. doi:10.1109/TVT.2018.2817365
26. Tian, F., Chen, X., Liu, S., Wang, K., **Yuan, X.**, & Yang, Z. (2018). Secrecy Rate Optimization in Wireless Multi-hop Full Duplex Networks. *IEEE Access*, **6**, 5695-5704. doi:10.1109/ACCESS.2018.2794739
27. Tian, F., **Yuan, X.,** Hou, Y.T., Lou, W., & Yang, Z. (2018). Cost minimization for cooperative traffic relaying between primary and secondary networks. *IEEE Transactions on Mobile Computing*, **17**(9), 2014-2027. doi:10.1109/TMC.2018.2795607
28. Tian, F., Chen, X., Liu, S., Wang, K., **Yuan, X.,** & Yang, Z. (2018). On Full Duplex Scheduling for Energy Efficiency Maximization in Multi-Hop Wireless Networks. *IEEE Access*, **6**, 2604-2614. doi:10.1109/ACCESS.2017.2784398
29. Zeng, H., Qin, X., **Yuan, X.**, Shi, Y., Hou, Y.T., & Lou, W. (2018). Cooperative interference neutralization in multi-hop wireless networks. *IEEE Transactions on Communications*, **66**(2), 889-903. doi:10.1109/TCOMM.2017.2768066
30. Jalaian, B., **Yuan, X.**, Shi, Y., Tian, F., Hou, Y.T., Lou, W., Midkiff, S.F., & Dasari, V. (2018). On the integration of SIC and MIMO DoF for interference cancellation in wireless networks. *Wireless Networks*, **24**, 2357-2374. doi:10.1007/s11276-017-1472-7
31. Zhang, J., Sheng, V.S., Li, T., & **Wu, X.** (2018). Improving Crowdsourced Label Quality Using Noise Correction. *IEEE Transactions on Neural Networks and Learning Systems*, **29**(5), 1675-1688. doi:10.1109/TNNLS.2017.2677468
32. Huang, J., Li, G., Huang, Q., **Wu, X.** (2018). Joint Feature Selection and Classification for Multilabel Learning. *IEEE Transactions on Cybernetics*, **48**(3), 876-889. doi:10.1109/TCYB.2017.2663838
33. Yang, C., Liu, H., McLoone, S., Chen, C.L.P., **Wu, X.** (2018). A Novel Variable Precision Reduction Approach to Comprehensive Knowledge Systems. *IEEE Transactions on Cybernetics*, **48**(2), 661-674. doi:10.1109/TCYB.2017.2648824
34. Wang, Q., Sheng, V.S., **Wu, X.** (2018). Document-Specific Keyphrase Candidate Search and Ranking. *Expert Systems with Application*s, **97**, 163-176. doi:10.1016/j.eswa.2017.12.031
35. Wang, J., **Wu, X.**, Li, L. (2018). A Framework for Semantic Connection based Topic Evolution with DeepWalk. *Intelligent Data Analysis*, **22**, 211-237. doi:10.3233/IDA-163282
36. Hada, R., **Wu, H.**, & **Jin, M.** (2018). Scalable Minimum-Cost Balanced Partitioning of Large-Scale Social Networks: Online and Offline Solutions. *IEEE Transactions on Parallel & Distributed Systems*, **29**, 1636-1649. doi:10.1109/TPDS.2017.2694835

37. Lin, Y., Hu, Q., Liu, J., Li, J., & **Wu, X.** (2017). Streaming Feature Selection for Multi-Label Learning based on Fuzzy Mutual Information. *IEEE Transactions on Fuzzy Systems*, **25,** 1491-1507. doi:10.1109/TFUZZ.2017.2735947
38. Yu, K., **Wu, X.**, Ding, W., Mu, Y., & Wang, H. (2017). Markov Blanket Feature Selection using Representative Sets. *IEEE Transactions on Neural Networks and Learning Systems*, **28**, 2775-2788. doi:10.1109/TNNLS.2016.2602365
39. Fang, B., Jia, Y., Li, X., Li, A., & **Wu, X.** (2017). Big Search in Cyberspace. *IEEE Transactions on Knowledge and Data Engineering*, **29**, 1793-1805. doi:10.1109/TKDE.2017.2699675
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42. Zhou, P., Hu, X., Li, P., & **Wu, X.** (2017). Online Feature Selection for High-dimensional Class-imbalanced Data. *Knowledge-Based Systems*, **136**, 187-199. doi:10.1016/j.knosys.2017.09.006
43. Zhang, Y., Chu, G., Li, P., Hu, X., & **Wu, X.** (2017) Three-Layer concept drifting detection in text data streams. *Neurocomputing*, **260**, 393-403. doi:10.1016/j.neucom.2017.04.047
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45. Xu, D., Wu, J., Li, D., Tian, Y., Zhu, X., & **Wu, X.** (2017). SALE: Self-adaptive LSH encoding for multi-instance learning. *Pattern Recognition*, **71**, 460-482. doi:10.1016/j.patcog.2017.04.029
46. **Amini Salehi, M.,** Rozier, E., & Zonouz, S. (2017). RESeED: A Secure Regular-Expression-based Search over Encrypted Data in Storage Cloud. [Special Issue] *Cloud and Fog Computing, Software: Practice & Experience*, doi:10.1002/spe.2473
47. Burstein, K., Forsyth, C.J., Biggar, R., **Hsu, S.**, Dick, S., Zeanah, P. (2017). A *Theoretical Model* for Preparing Incarcerated Youth for Careers in an Increasingly Technological World: Computational Logic as a Vehicle for Improving Human Decision-making Skills. *Journal of Criminal Justice Education*. **28**, 411-427. doi:10.1080/10511253.2016.1257731
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(IPDPS), Chicago, IL, May 23-27, 2016, 113-122. doi:10.1109/IPDPS.2016.17
51. **Totaro, M.W.** (2016). Computing and Network Systems Administration, Operations Research, and System Dynamics Modeling: A Proposed Research Framework. *The Journal on Systemics, Cybernetics and Informatics*, **14**(6), 83-88.
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Posters and Demonstrations

- **Borst C.W.**, & Lipari N.G. Intercontinental networked VR demonstration (featured stage demo). Ignite SA Launch Event. Adelaide, Australia, October 3, 2017.
- **Borst, C.W.**, Lipari, N.G., Woodworth, J.W., &. Chambers, T.L. Immersive Virtual Reality Field Trip to a Solar Plant with a Live-Streamed Remote Teacher (invited stage demo). Smart Cities Innovation Summit. Austin, TX, June 28, 2017.
- **Borst, C.** & Ekong, S. Invited exhibition. Transforming Communities: Broadband Goals for 2017 and Beyond, Next Century Cities event at Google. Washington D.C., November 29-30, 2016.
- Sharif, M.A. & **Raghavan, V.V.** Scalable Hybrid Approach for Web Page Recommendation. 2015 Frontiers in Service Conference, Concurrent Session: Session 6-1. San Jose, CA, July 9-12, 2015.
- **Borst, C.W.** Public Lecture on Virtual Reality. ArTech Fusion, Acadiana Center for the Arts. Lafayette, LA, March 2014.
- **Borst, C.W.** Public Demonstration of virtual reality systems. Smart Festival. October 2014.

- **Borst, C.W.** Demonstration of virtual reality systems. Science Day, UL Lafayette. Lafayette, LA, October 2014.
- **Borst, C.W.** Demonstrations, recruiting and promotions to visitors from CLECO, CACS Industry Brain Trust Lafayette High School, Xavier University, etc., (2014).
- **Logananthara j, R.** & Hasenstein, K. Understanding Draught Resistance in Plants RNA-seq of Polypodium polypodiosdes (Poster Presentation). MCBIOS Conference, Stillwater, OK, March 2014.

Patents

- Singh, S., **Raghavan, V.V.**, Xu, W. Method and System for Comparing Proteins in Three Dimensions. U.S. Non-provisional Patent Application No. 15/725,663. October 2017.
- Duggimpudi, M.B., **Raghavan, V.V.**, Moursy, A., Ali, E. Architecture and Method for Providing Insights in Wireless Networks Domain. U.S. Non-provisional Patent Application No. 15/724,495. October 2017.
- **Amini Salehi, M.**, Buyya, R., Deepak, K.S., Pisipati, R.K. Methods and Systems for energy management in a virtualized datacenter. U.S. Patent #9213575, November 2015.
- **Raghavan, V.V.** System, method and computer program product for information sorting and retrieval using a language-modeling kernel function. Araicom Research L.L.C., US9177047. Issued November 3, 2015.
- Chu, S., **Chu, H.**, Chen, J., **Raghavan, V.V.** & Wu, Z. Method and apparatus for information visualized expression, visualized human computer interactive expression interface thereof, Senovation L.L.C. US8,732,621 B2. May 20, 2014.
- **Lakhotia**, **A.** Improved System and Method for Identifying and Comparing Code by Semantic Abstractions. US Patent Application 14/143,823. December 31, 2013.
- **Raghavan, V.V.** Semantic Relationship Extraction, Text Categorization and Hypothesis Discovery, Araicom Research, L.L.C. US8494987. July 23, 2013.

Keynote Presentations and Invited Talks

1. **Amini Salehi, M.** *Edge Computing for Disaster Management in Smart Oil Fields*. Southern Unconventional Resources Collaboratory of Excellence (SOURCE), Tuscaloosa Marine Shale Laboratory (TMSL) Project Kickoff Meeting. Louisiana Immersive Technologies Enterprise (LITE) Center, Lafayette, Louisiana, September 2018.
2. **Amini Salehi, M.** *Interactive Video Streaming Using Cloud Services*. Computer Engineering Department, Ferdowsi University. Mashhad, Iran, June 2018.
3. **Chen, L.** *Optimizing Big Data Analytics within and across Datacenters.* East Lake International Forum. Wuhan, China. December 26, 2018.
4. Bai, M., Dorri, B.M., Sanchez, P., **Hsu, S.** (2018). *Blockchain-based Community ATM*, Poster Presentation. 5th Women in Cybersecurity. Chicago, IL, March 23-24, 2018.

5. Dorri, B.M., **Hsu, S.** (2018). *Cryptocurrencies in Blockchain Technology*, Presentation. Symposium of Cybersecurity and Big Data Analytics, 51st Annual Hawaii International Conference on System Sciences. Waikoloa Village, HI, January 2-6, 2018.
6. **Jin, M.** *Geometry and Deep Learning*. Gulf Coast Deep Learning Workshop. Lafayette, LA, October 2018.
7. **Lakhotia, A.** New Orleans Information Security Group (NolaSec), November 2018
8. **Lakhotia, A.** *Automatic generation of malware signatures*. Quarterly meeting of Anti-malware Testing and Standards Organization (AMTSO). Reykjavik, Iceland, October 2018.
9. **Raghavan, V.V.** *Unsupervised Rank Aggregation Using Parameterized Function Optimization*. Department of Computer Science, East Carolina University. Greenville, NC, November 2018.
10. **Yuan, X.** *Exploring New Performance Limits of Wireless Networks*. Tianjin University. Tianjin, China, January 2018.
11. **Yuan, X.** *Exploring New Performance Limits of Wireless Networks*. Nanjing Post and Telecommunications University. Nanjing, Jiangsu Province, China, June 2018.
12. **Borst, C.W.** Panel Discussion. IgniteSA Researchers Workshop, University of South Australia. Adelaide, SA, Australia, October 4, 2017.
13. **Borst, C.W.** Remotely Guided VR Field Trips. Smart and Connected Communities Researcher's Summit. June 26, 2017, Austin, TX.
14. Lipari, N.& **Borst, C.W.** *3D Virtual Reality for Education*. The Network Innovators Community Event in conjunction with IEEE International Conference on Network Protocols. Toronto, ON, Canada, October 10, 2017.
15. **Borst, C.W.** *Swamp VR: Research Examples from Lafayette, Louisiana*. Seminar at the University of Canterbury. Christchurch, New Zealand, October 19, 2017.
16. **Raghavan, V.V.** *Graph mining based approaches to the Customer Churn Prediction problem* (Keynote). The 2017 IEEE ICDM Workshop on Data Mining for Services. New Orleans, LA, November 2017.
17. **Raghavan, V.V.** *A Framework for Real-Time Event Detection for Emergency Situations using Social Media Streams*. Data Science Initiative/Complex Systems Institute, University of North Carolina at Charlotte. Charlotte, NC, February 2017.
18. **Jin, M.** *Computational Conformal Geometry* (Invited talk). The 1st Mid-South Theory Day. Baton Rouge, LA, December 2016.
19. **Amini Salehi, M.** *Optimal Resource Allocation in Heterogeneous Distributed Systems* (Keynote). IEEE International Conference on Computer and Knowledge Engineering (ICCKE'15). Mashhad, Iran, October 2015.
20. **Amini Salehi, M.** *Research Trends in Cloud Computing and Big-data* (Invited). Computer Engineering Department, Ferdowsi University. Mashhad, Iran, July 2015.
21. **Amini Salehi, M.** *Constructing Community Clouds for Natural Disaster Management* (Invited). NSF Early Career Workshop. Seattle, WA, April 2015.
22. **Amini Salehi, M.** *Big Data Security for Unstructured Data on Cloud* (Invited). Sensor Cloud Lab, Computer Science Department, RMIT University. Melbourne, VIC, Australia, January 2015.

23. **Lakhotia, A.** *Defusing Targeted Cyberattacks using Malware Intelligence* (Presentation). 2015 Malware Reverse Engineering Workshop. Melbourne, Australia, October 2015.
24. **Lakhotia, A.** *Attacking and Defending Computer Programs* (Presentation). NICTA. Sydney, Australia, October 2015.
25. **Lakhotia, A.** *Harnessing Intelligence from Malware Repositories* (Presentation). Blackhat Briefings. Las Vegas, NV, August 2015.
26. **Lakhotia, A.** *Binary Analysis* (Presentation). 6th International Summer School on Software Protection. Rio de Janiero, Brazil, July 2015.
27. **Lakhotia, A.** *Extracting Intelligence from Malware* (Presentation). Graduate Seminar, Amrita University. Amritapuri, India, January 2015.
28. **Raghavan, V.V.** *Visual Analytics of Large Time-Varying Graphs*. C.G. Khatri Memorial Lecture, C.R. Rao Prize Conference at Penn State University. College Station, PA, May 2015.
29. **Raghavan, V.V.** *Visual Analytics of Large-scale Evolving Networks*. C.G. Khatri Memorial Lecture, Penn State University. College Station, PA, May 2015.
30. **Raghavan, V.V.** *Visual Analytics of Time-Evolving Large-scale Graphs*. CACS Seminar, University of Louisiana at Lafayette. Lafayette, LA, March 2015.
31. **Raghavan, V.V.** *Visual Analytics of Time-Evolving Large-scale Graphs*. Short Course, 2015 International Winter School on Big Data. Tarragona, Spain, January 26-30, 2015.
32. **Raghavan, V.V.** *Massive Data Analysis: Challenges and Applications* (Invited). University at Buffalo. Buffalo, NY, March 2015.
33. **Wu, H.** *3D Sensor Networks: Challenges and Solutions* (Invited). Department of Electrical and Computer Engineering, Virginia Tech University. Blacksburg, VA, October 2015.
34. **Zhao, D.** Five Forces Shaping Embedded Nanocomputing in Dark Silicon Era (Invited). Department of Electrical Engineering, University of Washington. Seattle, WA, September 2015.
35. **Zhao, D.** Hardware Security and Trustworthy Computing (Panelist Speaker). 25th ACM/IEEE Great Lakes Symposium on VLSI. PittsburghPA, May 2015.
36. **Bayoumi, M.A.** *WSN: The Gate to Smart Systems* (Plenary Lecture). Intel-Taiwan Research Center, National Taiwan University. Taipei, Taiwan, August 2014.
37. **Bayoumi, M.A.** *Cognitive Wireless Sensor Networking* (Keynote Lecture). IEEE Michigan Meeting. November 13, 2014.
38. **Bayoumi, M.A.** *Cyber-Physical Systems: Reality, Dreams, and Fantasy* (Plenary Lecture). ECE Department, Oakland University. Rochester, MI, November 14, 2014.
39. **Bayoumi, M.A.** Presentation, Final Report ICECS 2013. Steering Committee, ICECS 2014, Marseille, France, December 2014.
40. **Bayoumi, M.A.** *Wireless Sensor Networks: Opportunities and Challenges* (Distinguished Lecture). IEEE Melbourne Section. Melbourne, Australia, March 2013.
41. **Bayoumi, M.A.** Cognitive Wireless Sensor Networks: The Road to Smart Systems (Invited). Macquarie University. Sydney, Australia, March 2013.
42. **Bayoumi, M.A.** *Cognitive Wireless Sensor Networks: The Road to Smart Systems* (Invited Lecture). Khalifa University of Science, Technology & Research. Abu Dhabi, United Arab Emirates, April 2013.

43. **Bayoumi, M.A.** *Wireless Sensor Network for Oil/Gas Industry* (Invited Lecture). Khalifa University of Science, Technology & Research. Abu Dhabi, United Arab Emirates, April 2013.
44. **Bayoumi, M.A.** *The Value of ABET for Educational Programs* (Invited Lecture). Khalifa University of Science, Technology & Research. Abu Dhabi, United Arab Emirates, April 2013.
45. **Bayoumi, M.A.** *An Integrated Paradigm for Low Energy Wireless Sensor Networks* (Plenary Lecture). King Abdulaziz City for Science and Technology. Riyadh, Saudi Arabia, May 2013.
46. **Bayoumi, M.A.** *Smart Systems: The New Generation of Wireless Sensor Networks* (Invited Lecture). Hong Kong University of Science and Technology. Hong Kong, October 2013.
47. **Bayoumi, M.A.** *Wireless Sensor Networks: The Gate to Cyber-Physical Systems* (Invited Lecture). National Chiao Tung University. Hsinchu City, Taiwan, October 2013.
48. **Bayoumi, M.A.** Smart Chips (Invited Lecture). National Chip Implementation Center. Hsinchu City, Taiwan, October 2013.
49. **Bayoumi, M.A.** . *DSP Processors & Chips: Where to Go?* (Panel). SiPS 2013. Taipei, Taiwan, October 2013.
50. **Bayoumi, M.A.** . *Smart Systems: The New Generation of Cyber-Physical Systems* (Distinguished Lecture). University of Bridgeport. Bridgeport, CT, November 2013.
51. **Lakhotia, A.** *Fast Location of Similar Code Fragments using Semantic 'Juice'* (Keynote). Program Protection and Reverse Engineering Workshop. Rome, Italy.
52. **Lakhotia, A.** *Emerging 21st Century Challenges*. College IT Club. South Louisiana Community College. Lafayette, LA, February 6, 2013.
53. **Raghavan, V.V.** *Representations for Large-Scale Sequence Data Mining: A Tale of Two Vector Space Models* (Keynote Lecture). Joint Rough Sets Symposium. Halifax, Canada, October 12, 2013.
54. **Raghavan, V.V.** *Massive Data Analysis: Challenges and Applications* (Invited Lecture). Statistics 2013 International Conference (Stat 2013). Hyderabad, India, December 30, 2013.
55. **Raghavan, V.V.** *Representations for Large-Scale Sequence Data Mining: A Tale of Two Vector Space Model*s. Jawaharlal Nehru Technical University (JNTU). Hyderabad, India, December 31, 2013.
56. **Totaro, M.W.** Insights into IT Presenter. South Louisiana Community College IT Club. South Louisiana Community College, Ardoin Building, Lafayette, LA, February 6, 2013.
57. **Tozal, M.E.** *Graph Sampling and Summarization* (Presentation). CVDI Fall 2014 IAB Meeting. Lafayette, LA, 2014.
58. **Tozal, M.E.** *Impact of Sampling Design in Estimation of Graph Characteristics*. IEEE International Performance Computing and Communications Conference. San Diego, CA, December 2013.
59. **Tozal, M.E.** *Location Matters: Eliciting Responses to Direct Probes*. IEEE International Performance Computing and Communications Conference. San Diego, CA, December 2013.

60. **Wu, H.** *Device-to-Device (D2D) Communication: What Part Will It Play in Future loT and Big Data Applications?* (Keynote). National Network and Data Communication Conference (NDCC). Wuhan, China, November 2014.
61. **Wu, H.** *Toward the Internet-of-Everything: From Cloud to Fog?* (Panel). National Network and Data Communication Conference (NDCC). Wuhan, China, November 2014.
62. **Wu, H.** *3D Sensor Networks: Challenges and Solutions* (Invited). Department of Computer Science, Shanghai Jiao Tong University. Shanghai, China, July 2014.
63. **Wu, H.** *3D Sensor Networks: Challenges and Solutions* (Invited). Department of Electronics and Information Engineering, Huazhong University of Science and Technology. Wuhan, China, July 2014.
64. **Wu, H.** *3D Sensor Networks: Challenges and Solutions* (Invited). School of Electrical and Information, Wuhan University. Wuhan, China, July 2014.
65. **Wu, H.** *Mobile & Pervasive Computing on Mobile Phone, Wireless Sensor and RFID Platforms* (Invited). School of Computer Science and Engineering, University of Electronic Science and Technology of China. Chengdu, China, March 2014.
66. **Zhao, D.** *Hardware Security and Trustworthy Computing* (Panelist Speaker). 25th ACM/IEEE Great Lakes Symposium VLSI. Pittsburgh, PA, May 2015.
67. **Zhao, D.** *Wireless Testing with Inductive Coupling* (Invited Elevator Talk). 32nd IEEE BLSI Test Symposium. Napa, CA, April 2014.
68. **Zhao, D.** *Embedded Nanocomputing: Small Devices, Large On-chip Communication Challenges* (Invited). JSPS 4th Multidisciplinary Science Forum. Washington, DC, 2014.
69. **Zhao, D.** Conference Presentations, SOCC 2014 & ISCAS 2014, 2014.
70. **Zhao, D.** Wireless Network-on-Chip (Panelist Speaker). 15th ACM/IEEE System Level Interconnect Prediction Workshop Co-Located with ACM/IEEE Design Automation Conference. Las Vegas, NV, June 2013.

Colloquia and Seminar Talks

1. **Borst**, **C.W.** Student ACM organization seminar. February 11, 2017.
2. **Jin, M.** *Computational Geometry and Applications*. CACS Colloquium. March, 2016.
3. **Tozal, M.E.** *Interactive Visual Exploration of Large Graphs*. CVDI, NSF Industry/University Cooperative Research Center, IAB Meeting. Lafayette, LA, October 2015.
4. **Tozal, M.E.** *Graph Sampling, Summarization and Visualization.* CVDI, NSFIndustry/University Cooperative Research Center, IAB Meeting. Philadelphia, PA, April 2015.
5. **Amini, M.** *Stochastic-Based Robust Dynamic Resource Allocation in Heterogeneous Distributed Computing System*. CACS Colloquium. Lafayette, LA, April 25, 2015.
6. **Amini, M.** *Regular-Expression Search over Encrypted Data in the Cloud*. CACS Colloquium. Lafayette, LA, October 24, 2014.
7. **Bayoumi, M.A.** . *The Treasures of CSCE 595*. CACS Colloquium. Lafayette, LA, Jamuary 16, 2015.
8. **Bayoumi, M.A.** *Welcome to the New Tango Couple: The Cyber and Physical Worlds*. CACS Colloquium. Lafayette, LA, September 19, 2014.

9. **Bayoumi, M.A.** *Valentine, Technology, and the Fourth Wave*. CACS Colloquium. Lafayette, LA, February 14, 2014.
10. **Dasgupta, S.** *Projects, Theses, Dissertations - And Creativity*. CACS Colloquium. Lafayette, LA, February 7, 2014.
11. **Efe, K.** *On the Light Side of Computer Science: Generalizations and Optimal Solutions for Coin Sorting Puzzles*. CACS Colloquium. Lafayette, LA, January 31, 2014.
12. **Jin, M.** *Computational and Conformal Geometry and Applications* (Invited Talk). Department of Computer Science, Florida State University. Tallahassee, FL, February 2013.
13. **Jin, M.** *Computational Conformal Geometry and Applications* (Invited Talk). School of Informatics and Computing, Indiana University Bloomington. Bloomington, IN. February 2013.
14. **Jin, M.** *Computational Conformal Geometry and Applications* (Invited Talk). Department of Electrical Engineering & Computer Science, Colorodo School of Mines. Golden, CO, February 2013.
15. **Lakhotia, A.** *Harnessing Intelligence from Malware Repositories*. CACS Colloquium. Lafayette, LA, March 27, 2015.
16. **Lakhotia, A.** *A Simple Observation to Published Results: Journey of Idea to Knowledge*. CACS Colloquium. Lafayette, LA, April 4, 2014.
17. **Lakhotia, A.** *Malware Attribution.* CACS Colloquium. Lafayette, LA, 2013.
18. **Logananthara j, R.** *An Overview of Paradigm Shift from Hypothesis Driven Research to Data Driven Research in Life Sciences.* CACS Colloquium. Lafayette, LA, October, 17, 2014.
19. **Maida, A.** *Compartmental Modeling for Biological Neural Cables using a Nonlinear Parabolic PDE*. CACS Colloquium. Lafayette, LA, March 20, 2015.
20. **Maida, A.** *Compartmental modeling for biological neural cables*. CACS Colloquium. Lafayette, LA, September 13, 2013.
21. Gupta, A., Ayhan, M., & **Maida, A.S.** (2013). Evaluation of autoencoders for bases to represent neuroimaging data (Poster Presentation). *Neural Information Processing Systems Workshop: Machine Learning and Interpretation in Neuroimaging*, Lake Tahoe, Nevada, December 9-10, 2013.
22. **Perkins, D.** *Cognitive Radio Networking: Enabling Dynamic Management of the Radio Spectrum.* CACS Colloquium. Lafayette, LA, October 31, 2014.
23. **Raghavan, V.V.** *Visual Analytics of Time-evolving Large-Scale Graphs.* CACS Colloquium. Lafayette, LA, March 13, 2015.
24. **Raghavan, V.V.** *Massive Data Analysis: Applications and Challenges*. CACS Colloquium. Lafayette, LA, September 5, 2014.
25. **Reiners, D.** *Research Assistantships: How to Get One and How to Keep It & Projects in Interactive Graphics and Visualization.* CACS Colloquium. Lafayette, LA, March 21, 2014.
26. **Tozal, M.E.** *Internet Topology Sampling.* Wireless Networking Research Group, UL Lafayette. Lafayette LA October, 2013
27. **Tzeng, N.-F.** *Cooperative Memory Expansion (COMEX) Support for Big Data*. CACS Colloquium. Lafayette, LA, September 26, 2014.

28. **Tzeng, N.-F.** *Architectural Support for Cloud Computing.* CACS Colloquium. Lafayette, LA, 2014.
29. **Tzeng, N.-F.** *Energy Reduction from Computer Architecture Perspective.* CACS Colloquium. Lafayette, LA, March 2013.
30. **Wu, H.** *3D Wireless Sensor Networks: Challenges and Solutions.* CACS Colloquium. Lafayette, LA, October 3, 2014.
31. **Wu, H.** *Mobile Opportunistic Networks: Challenges and Solutions.* School of Software Engineering, Northeastern University. Shenyang, China, July, 2013.

Graduate Student Production

1. Nur, A.Y. *The implications of the Internet's topological structure for its efficiency, security, and reliability*, Ph.D. (Computer Science), dissertation directed by **Tozal, M.E.**, 2018.
2. Bai, M. *Performance-driven hierarchical design and management of networks-on-chip in many-core systems*, Ph.D. (Computer Science), dissertation co-directed by**. Bayoumi, M.A** and **Zhao, D.**, 2018.
3. Ban, B. *Network resilience against dynamic changes*, Ph.D. (Computer Science), dissertation directed by **Jin, M.**, 2018.
4. Shu, W. *Directory storage efficiency improvement for chip-microprocessors*, Ph.D. (Computer Science), dissertation directed by **Tzeng, N.F.**, 2018.
5. Le, T.T. *Optimizing network-on-chip designs for heterogeneous many-core architectures,* Ph.D. (Computer Science), dissertation co-directed by **Bayoumi, M.A.** and**. Zhao, D**, 2018.
6. Nasirian, N. *Power-gating optimization in network-on-chip routers based on probabilistic analysis*, Ph.D. (Computer Science), dissertation directed by **Bayoumi, M.A.**, 2018.
7. Tavanaei, A. *Spiking neural networks and sparse deep learning*, Ph.D. (Computer Science), dissertation directed by **Maida, A.S.**, 2018.
8. Reza, M.F. *Computation and communication optimization in many-core heterogeneous server-on-chip*, Ph.D. (Computer Science), dissertation co-directed by **Bayoumi, M.A.** and **Zhao, D.**, 2017.
9. Duggimpudi, M.B. *On algorithms for object ranking in databases with applications in spatio-temporal outlier detection and ontology-based insights generation*, Ph.D. (Computer Science), dissertation directed by **Raghavan, V.V.**, 2017.
10. Darwich, M. *Cost-efficient cloud-based video streaming through quantifying video stream hotness*, Ph.D. (Computer Science), dissertation co-directed by **Amini, M.** and **Bayoumi, M.A.**, 2017.
11. Ali, A. *High performance vision modules for autonomous vehicles*, Ph.D. (Computer Engineering), dissertation directed by **Bayoumi, M.A.,** 2017.
12. Xiang, X. *Contention alleviation in network-on-chips*, Ph.D. (Computer Engineering), dissertation directed by **Tzeng, N.F.**, 2017.
13. Igbal, M.A. *Distributed security paradigm for resource-constrained wireless sensors in the context of Internet-of-things*, Ph.D. (Computer Science), dissertation directed by

Bayoumi, M.A., 2016.

14. Haddad, M.A. *Energy-pivotal solutions in green femtocell power control in hybrid-dense deployments*, Ph.D. (Computer Science), dissertation directed by **Bayoumi, M.A.,** 2016.
15. Katragadda, S. *A framework for real-time event detection for emergency situations using social media streams*, Ph.D. (Computer Science), dissertation directed by **Raghavan, V.V.**, 2016.
16. Li, X. *High performance video transcoding using cloud services*, Ph.D. (Computer Engineering), dissertation co-directed by **Bayoumi, M.A.** and **Amini Salehi, M.**, 2016
17. LeDoux, C. *Continuous auditing for locating evidence of targeted attacks,* Ph.D. (Computer Science), dissertation directed by **Lakhotia, A.**, 2016.
18. Dutta, A. *A smart design framework for a novel reconfigurable multi-processor systems-on-chip architecture*, Ph.D. (Computer Science), dissertation directed by **Bayoumi, M.A.**, 2016.
19. Han, Y. *Ultra-large-scale crowdsensing in device-to-device networks*, Ph.D. (Computer Science), dissertation directed by **Wu, H.**, 2016.
20. Bashar, A.E. *Online distributed depository selection in opportunistic device-to-device networks*, Ph.D. (Computer Science), dissertation directed by **Wu, H.**, 2016.
21. Elsayed, Z. *Early prediction of epilepsy seizure via VLSI BCI based system*, Ph.D. (Computer Engineering), dissertation directed by **Bayoumi, M.A.,** 2016.
22. Shaban, M.E. *Low complexity sub-Nyquist spectrum sensing for wideband cognitive radios*, Ph.D. (Computer Engineering), dissertation directed by **Bayoumi, M.A.,** 2015
23. Ali, E. *A framework for building light weight ontologies based on semi-structured data for semantic annotation*, Ph.D. (Computer Science), dissertation directed by **Raghavan, V.V.**, 2015.
24. Sharif, M.A. *Large-scale, hybrid approaches for recommending pages based on user's previous click patterns and content*, Ph.D. (Computer Science), dissertation directed by **Raghavan, V.V.**, 2015.
25. Yasami, S. *Design of ultra low power RF amplifier for biomedical and space application*, Ph.D. (Computer Engineering), dissertation directed by **Bayoumi, M.A.**, 2015.
26. Miles, C. *Elicitation of a program's behaviors*, Ph.D. (Computer Science), dissertation directed by **Lakhotia, A.**, 2015.
27. Huang, B. *Towards a benchmarking and QoS framework for wireless mesh and cognitive radio networks*, Ph.D. (Computer Science), dissertation directed by **Perkins, D.**, 2015.
28. Pourmohammad, S. *Stable queue management in communication networks based on feedback control theory*, Ph.D. (Computer Engineering), dissertation co-directed by Fekih, A. and **Perkins, D.**, 2015.
29. Edgington, P.D. *Modular Bayesian filters*, Ph.D. (Computer Science), dissertation directed by **Maida, A.S.**, 2015.
30. Aghdam, S.M.S.J. *Silica aerogel: An alternative to micromachined air gap for thermal insulation of microheaters*, Ph.D. (Computer Engineering), dissertation co-directed by Madani, M. and **Tzeng, N.F.**, 2015.
31. Singh, S. *Protein 3D structure comparison using triangular spatial relationships*, Ph.D. (Computer Science), dissertation directed by **Raghavan, V.V.**, 2015.

32. Gupta, A. *Neural networks for classification of MRI scans for Alzheimer's disease*, Ph.D. (Computer Science), dissertation directed by **Maida, A.S.**, 2015.
33. Singh, A. *Multi-resolution superpixels for visual saliency detection in large image collection*, Ph.D. (Computer Science), dissertation directed by **Chu, C.H.**, 2015.
34. Liu, Y. *QoS-aware data query and dissemination in mobile opportunistic networks*, Ph.D. (Computer Engineering), dissertation directed by **Wu, H.**, 2014.
35. He, X. *MIMO signal processing in few-mode fiber optical communication systems*, Ph.D. (Computer Engineering), dissertation directed by **Pan, Z.**, 2014.
36. Ayhan M.S., *A probabilistic biomarker for Alzheimer's disease*, Ph.D. (Computer Science), dissertation directed by **Raghavan, V.V.**, 2014.
37. Chang-Yen, I. *Peer-to-peer architectures for data discovery, distribution and consistent replication*, Ph.D. (Computer Science), dissertation directed by **Tzeng, N.F.**, 2014.
38. Ayoubi, R. *Smart image enhancement technique using cellular neural network for ultrasounds*, Ph.D. (Computer Engineering), dissertation directed by **Bayoumi, M.A., 2014.**
39. Farah, S. *Dynamic load-based power and clock gating technique for high-speed digital circuits*, Ph.D. (Computer Engineering), dissertation directed by **Bayoumi, M.A.,** 2014.
40. Jeddi, Z. *A lightweight authenticated symmetric encryption cipher for RFID systems*, Ph.D. (Computer Engineering), dissertation directed by **Bayoumi, M.A.,** 2014.
41. Zhao, Y. *Autonomous localization in 3D surface wireless sensor networks*, Ph.D. (Computer Science), dissertation directed by **Wu, H.**, 2014.

Journal Editorship

- **Bayoumi, M.A.,** Associate Editor, *Integration*, The VLSI Journal, 2008-2014.
- **Bayoumi, M.A.,** Associate Editor, Journal of VLSI Signal Processing, 2008-2014.
- **Borst, C.,** Editorial Board (Associate Editor), Entertainment Computing journal (Elsevier), 2011-Present.
- **Borst, C.**, Organizing committee (posters co-chair) appointment for 2015, with some activities in 2014.
- **Borst, C.**, Review Editor, Frontiers in Virtual Environments, 2014.
- **Borst, C.**, Reviewer, IEEE Computer Graphics & Applications magazine, 2014.
- **Borst, C.**, Reviewer, IEEE Transactions on Multimedia Computing, Communications, and Applications, 2014.
- **Chen, S.**, Guest editor for Open Computer Science special issue on Type Error Diagnosis and Closely Related Fields.
- **Etheredge, J.**, member of the editorial board, Computer Game Development and Education: An International Journal.
- **Hei, X.S.**, Guest editor, IEEE ACCESS: Security Analytics and Intelligence for Cyber Physical Systems, 2018.
- **Jin, M.**, Guest Editor of International Journal of Distributed Sensor Networks - Green Wireless Sensor Networks, 2018.
- **Jin, M.**, Editorial Board Member, Knowledge add Information Systems (KAIS), 2018

- **Jin, M.**, Guest Editor, International Journal of Distributed Sensor Networks Special Issue, 2016.
- **Jin, M.**, Editorial Board Member, ISRN Computer Graphics, 2011-Present.
- **Kumar, A.**, editor in chief, International Journal of Embedded Systems and Applications, ISSN: 1839-5171.
- **Kumar, A.**, member of the editorial board, International Journal of Software Engineering and Applications, ISSN: 0976-2221.
- **Kumar, S.**, member of the editorial board, Computer Game Development and Education: An International Journal.
- **Lakhotia, A.** Co-Editor in Chief, ACM Journal of Digital Threats: Research and Practice, 2018-Present.
- **Loganantharaj, R.**, Editorial Board member, International Journal of Biomedical Science and Engineering.
- **Raghavan, V.V.**, Editor-in-Chief. Technical Committee Bulletin, IEEE-CS for Intelligent Informatics, 2015.
- **Raghavan, V.V.**, Co-Editor-in-Chief. Web Intelligence Journal, 2015 - Present.
- **Raghavan, V.V.**, Associate Editor, Big Data Mining and Analytics Journal, Tsinghua Univ. Press, 2018-Present.
- **Raghavan, V.V.**, Associate Editor. ACM Transactions on Internet Technology, 2014-Present.
- **Raghavan, V.V.**, Associate Editor. International Journal of Computer Science & Applications, 2014-Present.
- **Raghavan, V.V.**, Associate Editor. Web Intelligence and Agent Systems (WIAS) Journal, 2013-2015.
- **Raghavan, V.V.**, Editor-in-Chief. *Bulletin of the IEEE TC on Intelligent Informatics*, 2010-Present.
- **Raghavan, V.V.**, Editor-in-Chief. *Bulletin of the IEEE TC on Intelligent Informatics*, 2010-Present.
- **Raghavan, V.V.**, Advisory Board member, International J. of Business Intelligence and Data Mining, 2018
- **Raghavan, V.V.**, Advisory Board member, International J. on Semantic Web and Information Systems, 2018
- **Raghavan, V.V.**, Advisory Board Member, International Journal of Big Data Intelligence, 2018
- **Raghavan, V.V.**, Associate Editor, Journal of KSU- Computer and Information Sciences, King Saud Univ. Press, 2018
- **Reiners, D.**, Associate Editor, Computers & Graphics, 2011-2013
- **Tzeng, N.-F.**, Editor, Journal of Information Science and Engineering (JISE, published by Academia Sinica, Taiwan), 2011-Present.
- **Wu, X.** Editor-in-Chief, Springer Book Series on Advanced Information and Knowledge Processing (AI & KP), 2016-Present.
- **Wu, H.**, Guest Editor, IEEE Communications Magazine Special Issue on Recent Advances in Green Industrial Networking, 2015.
- **Wu, H.**, Guest Editor, IEEE Sensors Journal Special Issue on Advances in Underwater Acoustic Sensor Networks, 2015.

- **Wu, H.,** Editor, IEEE Transactions on Parallel and Distributed Systems, 2013-Present.
- **Wu, H.,** Editor, Elsevier Computer Communications, 2013-Present.
- **Wu, H.,** Editor, KSII Transactions on Internet and Information Systems, 2012-Present.
- **Wu, H.,** Editor, Journal of Mobile Computing (MC), 2012-Present.
- **Wu, H.,** Editor, International Journal of Ad Hoc & Sensor Wireless Networks (AHSWN), 2010-2014.
- **Wu, H.**, Editor. IEEE Internet of Things Journal, 2014.
- **Wu, H.**, Area Editor, Elsevier Computer Communications, 2014.
- **Wu, H.,** Editor, of International Journal of Ad Hoc and Ubiquitous Computing (IJAHUC), 2009-Present.
- **Zhao, D.**, Technical Committee Member, Elsevier Journal on Computer Communications, 2014.

Journal Referees

- **Amini Salehi, M.**, Reviewer, IEEE Transactions on Parallel and Distributed Systems (TPDS).
- **Amini Salehi, M.**, Reviewer, IEEE Transactions on Cloud Computing (TCC).
- **Amini Salehi, M.**, Reviewer, IEEE Transactions on Services Computing (TSC).
- **Amini Salehi, M.**, Reviewer, ACM Transactions on Internet Technology (TOIT).
- **Amini Salehi, M.**, Reviewer, Journal of Parallel and Distributed Systems (JPDC).
- **Amini Salehi, M.**, Reviewer, Future Generation Computer Systems Journal (FGCS).
- **Amini Salehi, M.**, Reviewer, Journal of Concurrency and Computation: Practice and Experience (CCPE).
- **Amini Salehi, M.**, Reviewer, Journal of Computers (JCP).
- **Amini Salehi, M.**, Reviewer, Journal of Computer Network (COMNET).
- **Amini Salehi, M.**, Reviewer, Utility and Cloud Computing Conference (UCC).
- **Amini Salehi, M.**, Reviewer, Cluster Cloud and Grid (CCGrid) Conference.
- **Amini Salehi, M.**, Reviewer, Heterogeneity in Computing Workshop (HCW), in conjunction with International Parallel and Distributed Processing Symposium (IPDPS).
- **Amini Salehi, M.**, Reviewer, International Conference on Computer and Knowledge Engineering (ICCKE).
- **Borst, C.**, Reviewer, IEEE VR Journal Papers track, 2018.
- **Borst, C.**, Reviewer, Entertainment Computing Journal (Elsevier), 2018.
- **Borst, C.**, Reviewer, Computers & Education Journal (Elsevier), 2018.
- **Borst, C.**, Reviewer, Computers & Graphics Journal, SVR journal track submission (Elsevier), 2018.
- **Borst, C.**, Reviewer, Frontiers in ICT, section Virtual Environments, 2018.
- **Borst, C.**, Reviewer, Computer Animation and Virtual Worlds (Wiley), 2016.
- **Borst, C.**, Reviewer, Computers & Graphics (Elsevier), 2016.
- **Borst, C.**, Reviewer, ACM CHI: Conference on Human Factors in Computing Systems, 2015.
- **Borst, C.**, Book Proposal Reviewer for Morgan Kaufmann Publisher, 2015.

- **Borst, C.**, Reviewer, IEEE Haptics, 2011-2016; 2018.
- **Borst, C.**, Reviewer, IEEE Computer Graphics and Applications, 2014-2017.
- **Borst, C.**, Reviewer, IEEE 3DUI conference, 2013, 2015-2016.
- **Borst, C.**, Reviewer, IEEE VR conference, 2015.
- **Borst, C.**, ACM Transactions on Multimedia Computing, Communications and Applications, 2013.
- **Borst, C.**, Journal of Graphics Tools, 2013.
- **Borst, C.**, IEEE 3DUI conference, 2013.
- **Borst, C.**, IEEE Haptics / Worldhaptics conference, 2013.
- **Borst, C.**, Book Proposal Reviewer for Morgan Kaufmann Publisher.
- **Chaudhry, B.**, Journal of Medical Internet Research
- **Chen, L.**, IEEE Transactions on Mobile Computing
- **Chen, L.**, IEEE Transactions on Service Computing
- **Chen, L.**, Multimedia Systems
- **Chen, L.**, CCF Transactions on Networking
- **Chen, L.**, Frontiers of Computer Science
- **Chu, C.H.**, IEEE Transactions on Pattern Analysis and Machine Intelligence.
- **Chu, C.H.**, IEEE Transactions on Neural Networks.
- **Chu, C.H.**, IEEE Transactions on Image Processing.
- **Chu, C.H.**, IEEE Transactions on Geosciences and Remote Sensing.
- **Chu, C.H.**, Referee, Journal of Electronic Imaging.
- **Chu, C.H.**, Referee, Optical Engineering.
- **Chu, C.H.**, Reviewer, IEEE International Conference of Acoustics, Speech, and Signal Processing, 2007-Present.
- **Hei, X.S.**, IEEE/ACM Transactions on Networking.
- **Hei, X.S.**, IEEE Transactions on Mobile Computing.
- **Hei, X.S.**, IEEE Transactions on Wireless Communications.
- **Hei, X.S.**, IEEE Transactions on Communications.
- **Hei, X.S.**, IEEE Wireless Communications Magazine.
- **Hei, X.S.**, IEEE Transactions on Vehicular Technology.
- **Hei, X.S.**, IEEE Transactions on Parallel and Distributed Systems.
- **Hei, X.S.**, IEEE Internet of Things Journal.
- **Hei, X.S.**, CCF Transactions on Networking.
- **Hei, X.S.**, Information Science.
- **Hei, X.S.**, Journal of Computer Science and Technology.
- **Hei**, **X.S.**, IEEE ACCESS.
- **Hei**, **X.S.**, IEEE Journal of Biomedical and Health Informatics.
- **Hei**, **X. S.**, IEEE Transaction on Mobile Computing.
- **Hsu, S.H-Y.**, Journal of Business Research.
- **Hsu, S.H-Y.**, Hawaii International Conference on System Sciences (HICSS).
- **Hsu, S.H-Y.**, International Conference on Information Systems (ICIS).
- **Islam, A.**, ACM Transactions on Internet Technology, 2018.
- **Islam, A.**, Journal of Cloud Computing, 2018.
- **Islam, A.**, Language Resources and Evaluation Journal, Springer, 2018.

- **Islam, A.**, IEEE Consumer Electronics Magazine, 2018.
- **Islam, A.**, Reviewer, Information Processing & Management (IPM)**,** 2017.
- **Islam, A.**, Reviewer, Language Resources and Evaluation Journal, Springer, 2016, 2017.
- **Jin, M.**, IEEE/ACM Transactions on Networking (TON).
- **Jin, M.**, IEEE Transactions on Parallel and Distributed Systems (TPDS).
- **Jin, M.**, Computer Aided Design (CAD).
- **Jin, M.**, Computer-Aided Geometric Design (CAGD).
- **Jin, M.**, IEEE Transactions of Visualization and Computer Graphics (TVCG).
- **Jin, M.**, IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI).
- **Jin, M.**, Graphical Models.
- **Jin, M.**, Geomatica Journal.
- **Jin, M.**, Ad Hoc & Sensor Wireless Networks.
- **Jin, M.**, International Journal of Sensor Networks (IJSNet).
- **Kulshreshth, A.**, Springer Journal of Virtual Reality, 2018.
- **Kulshreshth, A.**, Computer and Graphics Journal, 2018.
- **Kulshreshth, A.**, Springer Journal of Multimedia Systems, 2018.
- **Kulshreshth, A.**, International Journal of Human-Computer Studies, 2018
- **Loganantharaj, R.**, IEEE/ACM Transactions on Computational Biology and Bioinformatics.
- **Loganantharaj, R.**, International Journal of Bioinformatics Research and Applications (IJBRA).
- **Maida, A.**, Ad hoc referee for IEEE Transactions on Neural Networks and Learning Systems, 2016.
- **Maida, A.**, Ad hoc referee for IBM Journal of Research and Development, 2016.
- **Najafi, M.H.**, IEEE Journal on Emerging and Selected Topics in Circuits and Systems (JETCAS).
- **Najafi, M.H.**, IEEE Transactions on Very Large-Scale Integration Systems (TVLSI).
- **Najafi, M.H.**, ACM Transactions on Architecture and Code Optimization (TACO).
- **Najafi, M.H.**, IET Computers & Digital Techniques.
- **Najafi, M.H.**, IEEE Transaction on Computers (TC).
- **Perkins, D.**, Journal of Information Science and Engineering, sponsored by Academia Sinica, Taiwan, 2014.
- **Perkins, D.**, IEEE Transactions on Wireless Communications.
- **Perkins, D.**, IEEE Transactions on Networking.
- **Perkins, D.**, Elsevier Journal on Pervasive and Mobile Computing.
- **Perkins, D.**, Elsevier Computer Networks Journal.
- **Perkins, D.**, The International Journal of Computer and Communications.
- **Perkins, D.**, ACM Mobile Networks & Applications Journal (MONET).
- **Raghavan, V.V.**, Review Board Member, Journal of Value Creation, 2015.
- **Tozal, M.E.**, Journal of Information Security and Applications, Elsevier, 2018.
- **Tozal, M.E.**, KSII Transactions on Internet and Information System, 2018.
- **Tozal, M.E.**, Springer The Journal of Supercomputing, 2018.
- **Tozal, M.E.**, Reviewer, IEEE Transactions on Networking, 2015.
- **Tozal, M.E.**, Reviewer, IEEE Transactions on Parallel and Distributed Systems, 2015.

- **Tozal, M.E.**, Reviewer, Elsevier Ad Hoc Networks Journal, 2015.
- **Tozal, M.E.**, Reviewer, Elsevier Computer Networks Journal, 2015.
- **Tozal, M.E.**, Reviewed: February 2014, Path-Quality Monitoring in the Presence of Adversaries: The Secure Sketch Protocols, IEEE/ACM Transactions on Networking, March 2014.
- **Tozal, M.E.**, Reviewer: Robust Estimation of Mean Failure Probability in Access Networks, Elsevier Computer Networks, April 2014.
- **Tozal, M.E.**, Reviewer: Models, Algorithms and Solution Methods for Centralized Control Planes to Optimize Control Traffic Overhead, Elsevier Computer Networks, June 2014.
- **Tozal, M.E.**, Reviewer: On Enhancing the Stability of Tree-based Overlay Multicast Using Cloud VMs, IEEE Transactions on Parallel and Distributed Systems, June 2014.
- **Tozal, M.E.**, reviewed: December 2013, Asymmetric Social Proximity Based Private Matching Protocols for Online Social Networks, IEEE Transactions on Parallel and Distributed Systems.
- **Tozal, M.E.**, Reviewed: August 2013, Bandwidth-Guaranteed Multicast by Multiple Trees and Network Coding in Lossy MANETs, Elsevier Ad Hoc Networks Journal.
- **Tozal, M.E.**, Reviewed: June 2013, Impacts of User-selfishness on Cooperative Content Caching in Social Wireless Networks, Elsevier Ad Hoc Networks Journal.
- **Tozal, M.E.**, reviewed: May 2013, Scouting Internet Paths with ICMP Parameter Problem-based active probing, Elsevier Computer Networks Journal.
- **Tzeng, N.F.**, IEEE Transactions on Computers.
- **Tzeng, N.F.**, IEEE Transactions on Parallel and Distributed Systems.
- **Tzeng, N.F.**, IEEE/ACM Transactions on Networking.
- **Tzeng, N.F.**, Journal of Information Science and Engineering (JISE, published by Academia Sinica, Taiwan).
- **Wu, H.**, IEEE Journal on Selected Areas in Communications (JSAC).
- **Wu, H.**, IEEE Transactions on Communications.
- **Wu, H.**, IEEE Transactions on Wireless Communications.
- **Wu, H.**, IEEE Transaction on Mobile Computing.
- **Wu, H.**, IEEE Transactions on Vehicular Technology.
- **Wu, H.**, IEEE Transaction on Parallel and Distributed Systems.
- **Wu, H.**, IEEE Transactions on Computers, IEEE Computer Networks.
- **Wu, H.**, IEEE Communication Magazine.
- **Wu, H.**, IEEE Communications Letters.
- **Wu, H.**, ACM Wireless Networks (WINET).
- **Wu, H.**, ACM Mobile Networks & Applications Journal (MONET).
- **Wu, H.**, Eselvier Ad Hoc Networks.
- **Zhao, D.**, IEEE Transactions on Parallel and Distributed Systems.
- **Zhao, D.**, IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems.
- **Zhao, D.**, IEEE Transactions on Computers.
- **Zhao, D.**, IEEE Transactions on VLSI Systems.
- **Zhao, D.**, IEEE Transactions on Circuits and Systems, I and II.

- **Zhao, D.**, IEEE Transactions on Instrumentation and Measurement.
- **Zhao, D.**, ACM Transactions on Embedded Computing Systems.
- **Zhao, D.**, ACM Transactions on Design Automation of Electronic Systems.
- **Zhao, D.**, ACM Journal of Emerging Technologies in Computing.
- **Zhao, D.**, IEEE Journal of Solid-State Circuits.
- **Zhao, D.**, IEEE Computer.
- **Zhao, D.**, IEEE Design & Test of Computers.
- **Zhao, D.**, IEEE Journal on Emerging and Selected Topics in Circuits and Systems.
- **Zhao, D.**, IET Journal on Computers & Digital Technique
- **Zhao, D.**, Integration - the VLSI Journal
- **Zhao, D.**, Journal of Electronic Testing: Theory and Applications.
- **Zhao, D.**, Journal of Circuits, Systems, and Computers.

Funding

External Funding

- **Borst C.**, Cross-community deployment and evaluation of Kvasir-VR, Mozilla, $25,000, March 2018.
- **Borst, C.** (PI), **Kulshreshth, A.** (Co-PI), "CHS: SMALL: Enhancing Educational Virtual Reality with HMD-based Eye Tracking", $499,814, August 2018 to July 2021.
- **Borst, C.** (PI), "Kvasir-VR Teacher-guided Shared Virtual Worlds", Mozilla Gigabit Community Fund, $25,000, March-July 2018.
- **Borst, C.** (PI), "Kvasir-VR Teacher-guided Shared Virtual Worlds", Mozilla Gigabit Community Fund, $10,000, October 2017-February 2018.
- **Chen, S.**, (PI) CAREER: Making Type Error Debugging Work. NSF Computing and Communication Foundations, $506,060, February 2018-January 2023.
- **Chu, C.H.**, PI, A strategic innovations partnership for efficient, innovative and consolidated information technology operations, Louisiana Department of Health, November 2018-October 2021, $10,888,027.
- **Yuan, X.**, PI, "Building a Distributed Key-Value Store with Secure Data Operations." Board of Regents–Research Competitiveness Subprogram (RCS). June 1, 2018-June 30, 2021, $128,861.
- **Hei, X.**, CRII: Cyber-Physical System Security in Implantable Insulin Injection System. NSF CRII, $143,043.00, 2017-2019, PI/PD.
- **Raghavan, V.V.**, Center for Visual and Decision Informatics (NSF/ CVDI), An Ontology-based Fast Semantic Indexing for Structured and Unstructured Data in Health Care," 2018-2019, $40,000, (with Satya Katragadda)
- **Wu, X.** (PI,) III: Small: Integrating Casual Discovery and Feature Selection with Streaming Features. U.S. National Science Foundation (NSF), Grant No. 1613950. July 1, 2016-June 30, 2019. $497,864.
- **Amini Salehi, M.** (PI), Gottumukalla, R. (Co-PI), Secure Information Sharing for Proactive Detection of Criminal Activities, BORSF ITRS, $322,023, 2017-2020

- **Amini Salehi, M.**, Research funding (credit), Cloud-based Video Streaming Service, Amazon Web Services (AWS), $4,500, 2016-2017.
- **Amini Salehi, M.**, Constructing Community Clouds for Disaster Management in Smart Cities, BORSF RCS, $110,755, 2016-2019.
- **Borst, C.**, (Lead PI) Year 5 Project: Interactive Visual Exploration of Large Graphs with Enhanced Sampling and Summarization, $53,778, 1 year (August 2016-July 2017), CVDI Industrial Advisory Board.
- **Borst, C.W.**, (Lead PI) CVDI Industrial Advisory Board Year 4 Project: Graph Sampling, Summarization, and Touch-based Visual Analytics for Large Complex Systems, 1 year, August 2015-July 2016**, $68,768.**
- **Borst, C.W.**, (Lead PI) NSF REU Supplement added to EAGER: US IGNITE : Collaborative Exploration in Networked VR Environments and Application to Remotely-Guided Classroom, $15,996 for 2016.
- **Amini Salehi, M.** (PI) NVidia Corp.: Hardware Grant to build a heterogeneous private Cloud at University of Louisiana at Lafayette, December 2015.
- **Amini Salehi, M.** (PI) NSF Early-Career Investigators Workshop on Cyber Physical Systems and Smart City, Community Clouds for Disaster Management in Smart Cities, October 2015.
- **Amini Salehi, M.** (PI), RCS Board of Regents Support Fund (BoRSF), Constructing Community Clouds for Disaster Management in Smart Cities, October 2015-October 2018.
- **Borst, C.W.**, (Lead PI) CVDI Industrial Advisory Board Year 4 Project: Graph Sampling, Summarization, and Touch-based Visual Analytics for Large Complex Systems, 1 year, August 2015-July 2016**, $68,768.**
- **Borst, C.W.**, (Lead PI) BoRSF ENH: Equipment for Virtual and Augmented Reality Research for Education and Training Systems, Louisiana BoRSF, Special Multidisciplinary program, July 2015-June 2016, $88,188.
- **Borst, C.W.**, (Lead PI) BoRSF ENH: Visual Analytics Lab: Interactive Visualization and Analysis of Big Data for Research and Education, Louisiana BoRSF ENH program, July 2015-June 2016, $80,679.
- **Bayoumi, M.A.**, (PI) BOR: Recruitment of Graduate Fellows in Computer Science and Computer Engineering, August 1, 2001-July 31, 2014, $618,000.
- **Bayoumi, M.A.**, (PI) NSF: Design and Implementation of Experimental High Resolution Imaging Payload System for Nano Satellites, August 11, 2011-December 31, 2014, $124,931.
- **Bayoumi, M.A.**, (PI) NSF: US Egypt Cooperative Research: Design and Implementation of Experimental High Resolution Imaging Payload System for Nano Satellites, August 2011-July 2013, $124,931.
- **Borst, C.**, Cross-community deployment and evaluation of Kvasir-VR, Mozilla, $25,000, March 2018.
- **Borst, C.**, Kvasir-VR Teacher-guided Shared Virtual Worlds, Mozilla, $10,000, October 2017.
- **Borst, C.**, Extensions to Kvasir-VR: VR Field Trips with Networked Teacher, U.S. Ignite, $10,000, October 2017.

- **Borst, C.**, REU supplement for: EAGER: US IGNITE: Collaborative Exploration in Networked VR Environments and Application to Remotely-Guided Classroom, NSF, $16,000 for 2017.
- **Borst, C.**, (Co-PI): I/UCRC Phase II Renewal: Center for Visual and Decision Informatics (CVDI), NSF, $499,998, March 1, 2017-February 28, 2022
- **Borst C.W.**, (Lead PI) NSF proposal: EAGER: US IGNITE: Collaborative Exploration in Networked VR Environments and Application to Remotely-Guided Classroom, $297,767. October 1, 2014-September 30, 2016.
- **Borst C.W.**, CVDI Year 3 Project: Visual Analytic Methods for Dynamic Graphs, $80,293. 1 year, August 2014-July 2015, CVDI Industrial Advisory Board.
- **Borst C.W.**, (Co-PI) NSF REU supplement to the CVDI project, $13,200. For 2015.
- **Borst C.W.**, (Co-PI) NSF proposal: MRI: Development: A Distributed Visual Analytics Sandbox for High Volume Data Streams, $499,998. August 1, 2014-July 31, 2018.
- **Borst C.W.**, (Co-PI) CVDI Industrial Advisory Board-2 Year Project: Visual Analytic Approaches to Mining Large-scale Time-Evolving Graphs, $70,000, August 2013-July 2014. Completed.
- **Borst C.W.**, (Co-PI) REU supplement to the CVDI project, $13,200. Completed 2014.
- **Borst C.W.**, (Co-PI) REU supplement to NSF grant, $13,585, 2013.
- **Borst C.W.**, (Co-PI) NSF I/UCRC Center for Visual and Decision Informatics (CVDI), $400,000 for 5 years, April 2012-2017.
- **Chu, C.H.**, PI, A strategic innovations partnership for efficient, innovative and consolidated information technology operations, Louisiana Department of Health, November 2015-October 2018, $10,974,959.
- **Chu, C.H.**, PI, Efficient, innovative and consolidated information technology operations, Louisiana Department of Health and Hospitals, contract, $3,534,742. July 2014-June 2015.
- **Chu, C.H.**, Co-Principal Investigator, (P.I.: **Raghavan, V.**), Web 3.0 and beyond: Enhancement of the Laboratory for Internet Computing for the future web generations, Louisiana Board of Regents Enhancement Grant, 2009-2010, $77,000.
- **Etheredge, J.** (PI) and **Kumar, A.** (co-PI). Louisiana Board of Regents, Enhancement Grant, Laboratory for research and curriculum development projects in video game design and development, funded 2012-2013, $35,000.
- **Hsu, S.H-Y.** Academic Liaison, STARS Computing Corps, National Science Foundation Program, 2013-2015.
- **Hsu, S.H-Y.** Summer Research Grant, 100% Network Analysis of a Flu Prediction Model, University supported grant, 2014. $4,500.
- **Hsu, S.H-Y.** STARS, NSF Funded, North Carolina State University at Charlotte, 2013.
- **Jin, M.** NeTS: Small: Distributed In-network Data Storage and Retrieval in 3D Wireless Sensor Networks, PI -, Co-Investigators: **Wu, H.**, Funding agency: US National Science Foundation (CNS-1320931). Amount of grant: $372,513, Time period: October 1, 2013-September 30, 2016.
- **Jin, M.** CAREER: Theorem, Algorithm, and Applications of Computational Quasiconformal Geometry, PI, Funding Agency: US National Science Foundation

(CCF-1054996). Amount of Grant: $419,779. Time Period: August 1, 2011-July 31, 2016.

- **Jin, M.** NeTS: Small: Scalable Routing in 3D Wireless Sensor Networks. PI-**Wu, H.**, Co-investigator: **Jin, M.**, Funding Agency: US National Science Foundation (CNS-1018306), Amount of Grant: $425,000. Time Period: August 01, 2010-July 31, 2015.
- **Jin, M.** RCS: Geometric Structures and their Applications, PI, Funding Agency: Louisiana Board of Regents Sponsored Programs (RCS-3737). Amount of Grant: $112,230. Time Period: June 01, 2009-May 31, 2013.
- **Kumar, A.**, PI, Louisiana Board of Regents, RCS Award. Design and development of coordination and control mechanisms for sensor-enabled software systems, (PI), funded 2009-2014, $113,424.
- **Kumar, A.**, (Co-PI), National Science Foundation. Collaborative Research: MCTech - STEM Careers in Shipbuilding and Marine Industry. Suren Dwivedi (PI) and funded, 2009-2013, Award number DUE-0903314, $72,588.
- **Lakhotia, A.**, (PI), Idaho National Lab. End-to-End Dynamic Program Analysis for Industrial Control Systems with Concolic Execution, $174,000. November 2014-September 2017.
- **Lakhotia, A.**, (PI), McAfee Associates. Machine Learning for Based APT Analytics, $52,900. October 2014-October 2015.
- **Lakhotia, A.** and Vaughan, J., Making the Anaconda Autonomous. Funded by SwiftShips, ($98,491), August 20, 2013-August 19, 2014. (Completed)
- Pfeffer, A. and **Lakhotia, A.**, Supervised Algorithms against Malware Evolution - Phase II (SESAME). Funded by AFOSR, STTR 2011 program. Subcontract through Charles River Analytics, (Total UL: $300,000 UL Indirect Cost: $169,000; Total Project: $750,000), March 2013-April 2015.
- Pfeffer, A. and **Lakhotia, A.**, Automatic Detection and Patching of Vulnerabilities in Embedded Systems (SMASHED). Funded by DARPA. SBIR 2013 program. Subcontract through Charles River Analytics, (Total UL: $29,838, UL Indirect Cost: $7,529; Total Project: $75,000), May 2013-October 2013.
- Pfeffer, A., **Lakhotia, A.**, Bay J., MAAGI - Malware Analysis and Attribution using Genetic Information. DARPA Cyber Genome Program. Subcontract through Charles River Analytics. (2013 UL: $249,238; 2013 Indirect Cost: $73,553; Total UL: 1,001,441; Total UL Indirect: $295,689; Total Project: $4.5M), September 2010-September 2014.
- **Loganantharaj, R.**, (PI), Azure Microsoft Machine Learning Research Award. Annotating Uncharacterized Genes Using Phylogenetic Profiles, $20,000 Direct Cost, February 2015-February 2016.
- **Perkins, D.**, (Co-PI). MRI: Development: A Distributed Visual Analytics Sandbox for High Volume Data Streams, National Science Foundation, August 2014-July 2018, $499,998. PI - Raju Gottumukkala; Co-PIs: Ryan Benton, Christoph Borst, Vijay Raghavan, Dmitri Perkins.
- **Perkins, D.**, EAGER: Spectrum Situational Awareness-Understanding the Data, NSF, October 2014-September 2016, $180,832. PI.
- **Perkins, D.**, PI, Cognitive Radio Networking and Hierarchical Sensing for Situational Awareness, Louisiana Board of Regents LINK Program, 2013, $7000.00.

- **Perkins, D.**, PI, Hierarchical Sensing Architecture for Situational Awareness, Office of Naval Research (ONR) Summer Research Fellow, 2013, $16000.
- **Reiners, D**., Cruz-Neira, C., Neumann, C., Multi-Channel Pharmaceutical Data Visualization. $148,583, IMH Health, January 2013-December 2013.
- **Raghavan, V.V.**, National Science Foundation (NSF), *Supporting US-Based Students to Attend the 2017 IEEE International Conference on Data Mining (ICDM 2017)*, November 15, 2017 – October 31, 202018, $24,000, (with Dr. Gottumukkala).
- **Raghavan, V.V.**, Center for Visual and Decision Informatics (NSF/ CVDI), An Ontology-based Architecture for Providing Insights, 2017-2018, $38,000, (with Raju Gottumukkala),
- **Raghavan, V.V.**, NSF- Industrial Innovation Division, PI, I/UCRC Phase II: Center for the Visual and Decision Informatics (CVDI), (Coordinating Institution: UL Lafayette), 60 months, $499,995, March 2017-February 2022 (with Raju Gottumukkala, Xindong Wu, Jian Chen, and Christoph Borst). The total funding, including industry members' funding, is over $1.5M over 5 years.
- **Raghavan, V.V.**, Center for Visual and Decision Informatics (NSF/ CVDI), Comparative Knowledge Discovery: Analyzing, Understanding and Visualizing Rankings, 2016-2017, $64,788, (with Raju Gottumukkala).
- **Raghavan, V.V.**, Gottumukkala, R., Benton, R, **Perkins, D.**, **Borst, C.**, NSF - Computer Networks and Systems, Co-PI, MRI: Development: A Distributed Visual Analytics Sandbox for High Volume Data Streams, 48 months, $499,998. August 2014-July 2018.
- **Raghavan, V.V.** NSF- Industrial Innovation Division, PI, I/UCRC FRP: Collaborative Research: Fundamental Research in Visualization-based Gap Analysis and Link Prediction, 24 months, $100K, August 2013-July 2015 (with Ryan Benton).
- **Raghavan, V.V.** NSF- Industrial Innovation Division, PI, I/UCRC Phase I: Center for the Visual and Decision Informatics (CVDI), (Lead Institution: UL Lafayette), 60 months, $400K, February 2012-January 2017 (with Ryan Benton, Carolina Cruz-Neira, Raju Gottumukkala and Ramesh Kolluru). The total funding, including members' funding, is over 1.72 M over 5 years.
- **Raghavan, V.V.** NSF and the State of Louisiana Board of Regents (BoR), Louis Stokes - Louisiana Alliance for Minority Participation - Senior Alliance (SA) (Year 1), NSF (2015-20)-LAMP-SA-08, $125,000 (w/ Dr. DeCuir), 09-01-15-August 31, 2020.
- **Raghavan, V.V.** LA BoR Support Fund (ITRS), Development of an Algorithm and a Tool for Accurate Comparison of Protein and Chemical 3-D Structure, LEQSF (2015-18)/RD-B-06, **$182,679** (with Xu, W.), July 01, 2015-June 30, 2018.
- **Raghavan, V.V.** Center for Visual Decision Informatics (NSF/CVDI), Predicting Future Relations: Incremental and Robust Link Prediction, $72,535 (with Raju Gottumukkala and Ryan Benton), 2015-2016
- **Raghavan, V.V.** National Science Foundation (NSF) and the State of Louisiana Board of Regents (BoR), Louis Stokes- Louisiana Alliance for Minority Participation- Phase IV (Years 1-5), November 1, 2011-October 31, 2016, $250,000, (with Dr. DeCuir).
- Yuan, An, **M. Totaro**, C. Chen, T. Hu, W. Ke, J. Li, X. Lin, M. Rogers, **V. Raghavan**, I-Y. Song, **Xu, W.** Multi-industry semantic discovery tool sets for data integration, data warehousing, and e-science. Funded project (July 2012-June 2013),

Center for Visual and Decision Informatics (CVDI): An NSF Industry/University Collaborative Research Center, University of Louisiana at Lafayette, Drexel University; $132, 200 (funded).

- **Tzeng, N.-F.** National Science Foundation (NSF), Division of Computer and Network Systems. CSR: Small: Collaborative Research: Comprehensive Algorithmic Resilience (CAR) for Big Data Analytics, $249,999, September 2015 through August 2018.
- **Tzeng, N.-F.** National Science Foundation, Division of Computing and Communication Foundations. SHF: Small: Cooperative Memory Expansion (COMEX) for Networked Computing Systems via Remote Direct Memory Access, $460,000, July 2014-June 2017.
- **Tzeng, N.-F.** National Science Foundation, Division of Computing and Communication Foundations. SHF: Small: Reliability Enhancement via Adaptive Checkpointing in Wireless Grids, $420,000, August 2009 through July 2014.
- **Tzeng, N.-F.** National Science Foundation, Division of Computer and Network Systems. NEDG: Featherlight Information Network with Delay-Endurable RFID Support, $366,000, September 2008 through August 2013 (jointly with Wu, H.).
- **Wu, H.** Project: NeTS: Small: Large-Scale Opportunistic Data Crowdsourcing and Dissemination in Device-to-Device (D2D) Networks. National Science Foundation (NSF), CNS-1528004, $385,024, 2015-2018, PI.
- **Wu, H.** Project: NeTS: Small: Distributed In-network Data Storage and Retrieval in 3D Wireless Sensor Networks, National Science Foundation (NSF), CNS-1320931, $372,513 (my share is about $186,256), 2013-2016, Co-PI (with PI **Jin, M.**).
- **Wu, H.** Project: NeTS: Small: Scalable Routing in 3D Wireless Sensor Networks, National Science Foundation (NSF), CNS-1018306, $425,000 (my share is about $212,500), 2010-2014, PI (with Co-PI **Jin, M.**).
- **Zhao, D.** Wireless Network-on-Chip: A New Communication Paradigm for Heterogeneous Gigascale MPSoCs. NSF Career, $621,230, 2009-2015, PI/PD.
- **Zhao, D.** A Wireless Nanonetworks Integration and Emulation System for Multi-Processor SoC Research and Education. NSF MRI, $500,000 (plus $214K institute match), 2008-2013, PI/PD.

Internal Funding

- **Islam, A.**, Undergraduate Research Mini-Grant Program: $2000, University of Louisiana at Lafayette, 2018.
- **Tozal, M.E.**, UL Lafayette Travel Grant: $700, IEEE systems Conference 2017, Canada
- **Amini Salehi, M.**,Travel Grant: $700 to attend 6th International Conference on Big Data and Cloud Computing (BDCloud '16), Atlanta, GA, October 2016.
- **Etheredge, J.** and **Ducrest, F.**, UL Student Technology Enhancement Program (STEP) Grant G299E8. Purchase of hardware and software for the Computer Science Department's laboratory / classroom for Video Game Design and Development. $20,000, Fall 2014.

- **Jin, M.**, Jack and Gladys Theall/Board of Regents Endowed Professorship, College of Science, University of Louisiana at Lafayette, $10,000. 2013-2016.

Other

Awards/Honors

- **Amini Salehi, M.**, selected to present proposal on Community Clouds for disaster management at NSF Workshop along with ICCPS Conference, April 2015.
- **Amini Salehi, M.**, awarded Early-Career Investigator Funding from NSF Workshop on Cyber Physical Systems and Smart Cities, March 2015.
- **Amini Salehi, M.**, awarded Recognized Reviewer status from Elsevier, February 2015.
- **Bayoumi, M.A.**, Selected for the prestigious *Professeur Invité* at University of Paris-Orsay in a worldwide competition.
- **Borst, C.**, Region 4 Post-Secondary Educator of the Year, 2016, LACUE.
- **Borst, C.**, State winner, Post-Secondary Educator of the Year, 2016, LACUE.
- **Borst, C.**, U.S. Ignite demo award, 2016 Smart Cities Innovation Summit.
- **Borst, C.**, Press Coverage:
  - Louisiana Economic Quarterly, Q2 2014, Interface from VR Lab/CVDI Project;
  - Daily Advertiser, Interviewed about new NSF-funded VR project, September 20, 2013.
- **Dasgupta, S.**, selected for an Outstanding Academic Title for 2014 for *It Began with Babbage*, 2015.
- **Dasgupta, S.** Biographical Entry, Who's Who in America.
- **Dasgupta, S.** Biographical Entry, Who's Who in the World.
- **Raghavan, V.V.**, C.G. Khatri Memorial Lecturer. 2015 Rao Prize Conference, Penn State University, 2015.
- **Hsu, S.H-Y.** Olga Richard Schilling/BORSF Professorship in Business Systems, Analysis and Technology. 2010-2013
- **Jin, M.** Jack and Gladys Theall/Board of Regents Endowed Professorship College of Science, University of Louisiana at Lafayette, 2013.
- **Kumar, A.**, Outstanding Advisor Award, 2014.
- **Perkins, D.**, Office of Naval Research Fellow, 2013, 2014.
- **Perkins, D.**, Hardy Edmiston Endowed Professorship Award, 2008-2018.
- **Raghavan, V.V.**, Outstanding Achievement in Research and Sponsored Activities, Office of Research and Sponsored Programs, UL Lafayette, 2016-2017
- **Raghavan, V.V.**, Innovator Award, Office of Research and Sponsored Programs, UL Lafayette, 2016-2017.
- **Raghavan, V.V.**, 2013 Web Intelligence Consortium (WIC) Outstanding Service Award.
- **Raghavan, V.V.**, 2013-Present Alfred and Helen Lamson/BoRSF Endowed Professorship.

- **Raghavan, V.V.**, 2012-Present Association for Computing Machinery (ACM) Distinguished Scientist.
- **Raghavan, V.V.**, 2009-Present IEEE Senior Member.
- **Tozal, M.E.**, Excellence in Teaching Award, Sigma Alpha Pi, 2014.
- **Tozal, M.E.**, SLOAN-C Distance Learning Workshop, Independent Applying the QM Rubric, Certificate of Completion, July 2013.
- **Tozal, M.E.**, SLOAN-C Distance Learning Workshop, New to Online, The Essentials, Certificate of Completion, March 2013.
- **Totaro, M.W.**, UL Lafayette Award for Excellence in Academic Advising, 2012 Academic Year (Received 2013).
- **West, B.P.**, Association of Information Technology Professionals (AITP) Region 3 Star of the Year Award, 2013
- **Wu, X.**, Alfred and Helen M. Lamson Endowed Professorship in Computer Science, 2016-Present.
- **Wu, H.** Alfred and Helen M. Lamson Endowed Professorship in Computer Science, 2008-2016.
- **Zhao, D.** University of Louisiana at Lafayette Research Excellence Award, 2013.

Conference Chairs and Other Organization Roles

- **Amini Salehi, M.**, Publicity Chair, 9th International Green and Sustainable Computing Conference (IGCC '18), Pittsburgh, PA, USA
- **Amini Salehi, M.**, Publicity Chair, 27th and 28th Heterogeneity in Computing Workshop (HCW) collocated with 32nd International Parallel and Distributed Processing Symposium (IPDPS '18), in Vancouver, Canada
- **Bayoumi, M.A.,** *Chair/Panel Organizer*: Have Microsystems replaced Microelectronics, NEWCAS, Quebec, Canada, June 2015.
- **Bayoumi, M.A.,** Chair, ICECS 2015, Cairo, Egypt, December 2015.
- **Bayoumi, M.A.,** General Chair, IEEE ICASSP 2017, New Orleans, LA.
- **Bayoumi, M.A.,** Chair/Panel Organizer: Have Microsystems replaced Microelectronics, NEWCAS, Quebec, Canada, June 2015.
- **Bayoumi, M.A.**, Chair, ICECS 2015, Cairo, Egypt, December 2015.
- **Borst, C.W.**, IEEE VR 2018 Organizing Committee : Research Demonstrations Chair
- **Borst, C.W.**, IEEE VR 2018 Conference Paper Program Committee
- **Borst, C.W.**, IEEE VR 2018 3DUI contest judge
- **Borst, C.W.**, IEEE VR 2018 poster judge
- **Borst, C.W.**, International Program Committee Members, ICAT-EGVE 2018 (International Conference on Artificial Reality and Telexistence & Eurographics Symposium on Virtual Environments)
- **Borst, C.**, IEEE VR organizing committee: demos, 2017
- **Borst, C.W.**, IEEE 3DUI organizing committee (Posters chair), 2015, 2016, 2017.
- **Chu, C.H.**, session chair, International Conference on Pattern Recognition Applications and Methods, Rome, Italy 2016, Madeira, Portugal, 2018.

- **Gastineau, M.P.**, Judge, Future Business Leaders of America (FBLA), for Job Interview, Business Ethics, and Sports & Entertainment Management presentations, State Leadership Conference, Lafayette Convention Center, Lafayette, LA, March 22-23, 2015.
- **Gastineau, M.P.**, FBLA, Judge for Job Interview, Business Ethics, and Sports & Entertainment Management presentations, State Leadership Conference, Lafayette Convention Center, Lafayette, LA, March 23-24, 2014.
- **Hsu, S.H.-Y.** 2019 Women in Cybersecurity conference board member, 2018
- **Jin, M.**, TPC Member, SENSORCOMM 2014.
- **Jin, M.**, TPC Member, ICIT 2014.
- **Jin, M.**, TPC Member, INNOV 2014.
- **Jin, M.**, TPC Member, ALGOSENSORS 2014.
- **Jin, M.**, TPC Member, Geometric Modeling and Processing (GMP), 2014.
- **Jin, M.**, Member, Editorial Board, ISRN Computer Graphics, 2014.
- **Lakhotia, A.**, Steering Committee and Program Committee, International Conference on Unwanted and Malicious Programs (MALCON)
- **Lakhotia, A.**, Steering Committee, Dagstuhl Seminar 17281, Malware Analysis: From Large-Scale Data Triage to Targeted Attack Recognition, 2018
- **Lakhotia, A.**, *Co-Chair*, Technical Program Committee, 10th IEEE International Conference on Malicious and Unwanted Software (MALWARE), Fajardo, PR, 2015.
- **Lakhotia, A.**, Steering Committee, Program Protection and Engineering Workshop, New Orleans, LA, 2015.
- **Lakhotia, A.**, co-Chair Technical Program Committee, IEEE International Conference on Malicious and Unwanted Software (MALWARE), 2014.
- **Lakhotia, A.**, Steering Committee. ACM Workshop on Program Protection and Reverse Engineering, San Diego, CA, 2014.
- **Lakhotia, A.**, co-Chair Technical Program Committee, IEEE International Conference on Malicious and Unwanted Software (MALWARE), Fajardo, PR, 2013.
- **Loganantharaj, R.**, Member, Editorial Board, International Journal of Biomedical Science and Engineering, 2013-Present.
- **Loganantharaj, R.**, Steering committee member of BIOT 2010-2014.
- **Raghavan, V.V.**, Steering Committee Member for: IEEE Big Data Conference 2017, Boston, MA, December 2018
- **Raghavan, V.V.**, 2018 Area Chair, Technical Program Committee, 2018 International Conference on Data Mining (ICDM 2018), Singapore, November 2018
- **Raghavan, V.V.,** Panel Moderator, 2017 IEEE Big Data Conference, Panel on *Big Data Software and Analytic Methods- What is Next?* Boston, MA, December 2017
- **Raghavan, V.V.**, Co-Chair, Technical Program Committee, 2017 International Conference on Data Mining (ICDM 2017), New Orleans, LA, Nov. 2017.
- **Raghavan, V.V.**, Review Board Member, Journal of Value Creation, 2015.
- **Raghavan, V.V.**, Member Steering Committee, Web Intelligence Consortium (WIC), 2015.
- **Raghavan, V.V.**, Member Technical Committee, Web Intelligence Consortium (WIC), 2015.

- **Raghavan, V.V.**, Member Advisory Board, International Journal of Big Data Intelligence, 2015.
- **Raghavan, V.V.**, Member Nomination Committee, 2015 Alex Schwarzkopf Award for the Best I/UCRC Director, 2015.
- **Raghavan, V.V.**, Member, Executive Board, IEEE-CS Technical Committee for Intelligent Informatics, 2015.
- **Raghavan, V.V.**, Tutorial Presenter, Visual Analytics of Large Time-Evolving Graphs, ACM-IEEE WI-IAT Conference, Singapore, December 2015.
- **Raghavan, V.V.**, Panel Moderator, 2015 IEEE Big Data Conference, Panel on Key Challenges for Future Big-Data to Knowledge (BD2K) Technologies, Santa Clara, CA, October 2015.
- **Raghavan, V.V.**, Workshop Co-Chair, 2015 IEEE Big Data Conference Workshop on *Big Data Quality Issues*, Santa Clara, CA, October 2015.
- **Raghavan, V.V.**, Session Chair, 2015 International Symposium on Methodologies for Intelligent Systems, Lyon, France, October 2015.
- **Raghavan, V.V.**, Participant, Round table on *Challenges and Opportunities for Big Data Research and Development*, BigDat 2015, Tarragona, Spain, January 2015.
- **Raghavan, V.V.**, General Co-Chair, IEEE BigData Conference, Santa Clara, CA, October 2013.
- **Raghavan, V.V.**, Program Chair, WI-IAT 2013 Conferences, Atlanta, GA, Nov. 2013.
- **Raghavan, V.V.,** Session Chair, IEEE BigData Conference, Santa Clara, CA, October 2013.
- **Raghavan, V.V.,** Panel Moderator, IEEE BigData Conference, Santa Clara, CA, October 2013.
- **Raghavan, V.V.,** Session Chair, WI-IAT 2013 Conferences, Atlanta, GA, Nov. 2013.
- **Raghavan, V.V.,** Panel Member, Statistics 2013 International Conference, December 2013.
- **Raghavan, V.V.,** Session Chair, Statistics 2013 International Conference, December 2013.
- **Reiners, D.**, Chair for Workshops, IEEE VR 2013.
- **Reiners, D.**,Co-Chair for Software Engineering and Architecture for Realtime Interactive Systems Workshop (SEARIS) at IEEE VR 2013.
- **Tozal, M.E.**, Resource Management session chair, *IEEE International Performance Computing and Communications Conference*, San Diego, California, USA, December 2013.
- **Tzeng, N.-F.**, Technical Program Vice-Chair (for Cyber Physical Systems), 45th International Conference on Parallel Processing (ICPP 2016), August 2016.
- **Wu, H.**, TP Track Co-Chair, Sensor/Embedded Networks and Pervasive Computing (SNPC) Track, International Conference on Computer Communications and Networks (ICCCN), 2015 & 2016.
- **Wu, H.**, Area TPC Chair, IEEE Conference on Computer Communications (INFOCOM), 2016.
- **Wu, H.**, TPC Co-Chair, IEEE Smart City 2015.
- **Wu, H.**, TP Co-Chair, Wireless Communication Symposium, IEEE Globecom, 2015.

- **Wu, H.**, TPC Co-Chair, IEEE 5th International Conference on Big Data and Cloud Computing, 2015.
- **Wu, H.**, TPC Chair, IEEE 10th International Conference on Intelligent Sensors, Sensor Networks and Information Processing (ISSNIP), 2015.
- **Wu, H.**, TP Co-Chair, Wireless Communication Symposium, IEEE Globecom, 2015.
- **Wu, H.**, TP Track Co-Chair, Sensor/Embedded Networks and Pervasive Computing (SNPC) Track, International Conference on Computer Communications and Networks (ICCCN), 2014.
- **Wu, H.**, Workshop Co-chair, The 6th FTRA International Conference on Computer Science and its Applications (CSA), 2014.
- **Wu, H.**, TP Track Co-Chair, Sensor/Embedded Networks and Pervasive Computing (SNPC) Track, International Conference on Computer Communications and Networks (ICCCN), 2014-2015.
- **Wu, H.**, Co-General Chair, 2014 International Workshop on Real-Time Cyber-Physical Systems (RTCPS), 2014.
- **Wu, H.**, TPC Co-Chair, International Conference on Mobile Ad-hoc and Sensor Networks (MSN), 2013.
- **Yuan, X.**, Publication Chair, 14th International Conference on Mobile Ad-hoc and Sensor Networks (MSN), December 6-8, 2018.
- **Yuan, X.**, Session chair, 2018 IEEE International Conference on Computer and Communications (INFOCOM).
- **Zhao, D.**, General Chair, IEEE Outreach Workshop on Multicore/Many-core SoC Design & Development collocated with IEEE SOCC, 2015.
- **Zhao, D.**, TPC Chair, 28th IEEE International System-on-Chip Conference, 2015.
- **Zhao, D.**, Financial Chair, 25th IEEE Great Lakes Symposium on VLSI 2015.
- **Zhao, D.**, Special Program Chair, 24th IEEE North Atlantic Test Workshop 2015.
- **Zhao, D.**, TPC Co-Chair, IEEE International SoC Conference, 2014. (Win IEEE Circuit and Systems Society Outreach Initiative 2013 with $16,000 grant to run a SoC Tech Tutorial School collocated with 27th IEEE International system-on-Chip Conference).
- **Zhao, D.**, Served as Elevator Speaker on Wireless Testing with Inductive Coupling, in 32nd IEEE VLSI Test Symposium, 2014.
- **Zhao, D.**, Track Chair: IEEE International SoC Conference 2014-2015.
- **Zhao, D.**, Session Chair, IEEE International Symposium on Circuits and Systems, 2014.
- **Zhao, D.**, TPC Member, IEEE International System-on-Chip Conference (SOCC), 2014.
- **Zhao, D.**, TPC Member, IEEE International Conference on Computer Communications and Networks (ICCCN), 2014.
- **Zhao, D.**, TPC Member, IEEE Great Lakes Symposium VLSI (GLSVLSI), 2014.
- **Zhao, D.**, TPC Member, IEEE Asia and South Pacific Design Automation Conference (ASP-DAC), 2014.
- **Zhao, D.**, TPC Member, IEEE Asian Test Symposium (ATS), 2014.
- **Zhao, D.**, TPC Member, IEEE North Atlantic Test Workshop (NATW), 2014.

- **Zhao, D.**, TPC Member, IEEE Workshop on RTL and High Level Testing (WRTLT), 2014.
- **Zhao, D.**, Session Chair, IEEE International Symposium on NOCs, 2013.
- **Zhao, D.**, Session Chair, IEEE European Test Symposium, 2013.
- **Zhao, D.**, Session Chair, International SOC Conference, 2012-2013.

Conference Program Committee Members

- **Amini Salehi, M.**, *Technical Program Committee Member*:
  - 37th IEEE International Performance Computing and Communications Conference (IPCCC '18), Orlando, FL, USA
  - 9th EAI International Conference on Big Data Technologies and Applications (BDTA '18), Exeter, UK
  - 16th International Conference on High Performance Computing & Simulation (HPCS '18), Orleans, France
  - IEEE International Congress on BigData 2018, San Francisco
  - 27th Heterogeneity in Computing Workshop (HCW) collocated with 32th International Parallel and Distributed Processing Symposium (IPDPS '18), in Vancouver, Canada 2018
  - 27th International Conference on Computer Communications and Networks (ICCCN '18), Hangzhou, China
  - 2nd IEEE International Conference on Fog and Edge Computing (ICFEC '18), Washington DC, USA
  - 3rd IEEE International Conference on Cloud Computing and Big Data Analysis (ICCCBDA '18), Chengdu, China
  - 9th International Conference on Cloud Computing, GRIDs, and Virtualization (Cloud Computing '18), Barcelona, Spain
  - Japan-Africa Conference on Electronics, Communications, and Computers (JAC-ECC '18), Alexandria, Egypt
  - IEEE/ACM International Conference on Utility and Cloud Computing (UCC'15) poster session, Limassol, CYPRUS, 2015
  - IEEE International Conference on Big Data and Cloud Computing (BDCloud'15), Dalian, China, 2015
  - IEEE International Conference on Ubiquitous Computing and Communications (IUCC'14), Chengdu, China, 2014
  - International Conference on Computer and Knowledge Engineering (ICCKE'15), Mashhad, IRAN, 2015
- **Borst, C.**, international program committee, IAT-EGVE 2017
- **Borst, C.**, Program Committee, International Conference on Entertainment Computing, ICEC 2014.
- **Borst, C.**, Senior Program Committee, Advances in Computer Entertainment Technology Conference, ACE 2014.
- **Borst, C.**, Poster Program Committee, Advanced in Computer Entertainment Technology Conference, ACE 2014.

- **Chu C.H.**, Program Committee and Session Chair, SPIE Symposium on Defense, Security, and Sensing, 2014.
- **Chu C.H.**, IEEE International Conference for Image Processing, Technical Program Committee Member, 1996-Present.
- **Chu C.H.**, IEEE International Conference for Acoustics, Speech, and Signal Processing, Technical Program Committee Member, 2007-Present.
- **Chu C.H.**, SPIE Symposium on Defense, Security, and Sensing, Program Committee and Session Chair, 2009-Present.
- **Chu C.H.**, Board of Regents' LONI High Performance Computing Users Symposium, Science Advisory Committee Member, 2013.
- **Chu C.H.**, SPIE Symposium on Defense, Security, and Sensing, Program Committee and Session Chair, 2009-Present.
- **Hei, X.S.**, IEEE ICC 2018
- **Hsu, S.H-Y.**, 2018 Grace Hopper Celebration poster reviewer, 2018
- **Hsu, S.H-Y.**, Hawaii International Conference on System Sciences (HICSS).
- **Hsu, S.H-Y.**, International Conference on Information Systems (ICIS).
- **Islam, A.**, Conference on Empirical Methods in Natural Language Processing (EMNLP) 2018
- **Islam, A.**, 52nd Hawaii International Conference on System Sciences (HICSS), 2018
- **Islam, A.**, International Conference on Intelligent Text Processing and Computational Linguistics (CICLing) - 2018
- **Islam, A.**, Canadian Conference on Artificial Intelligence (CAI) - 2018
- **Islam, A.**, 6th IFIP International Conference on Computational Intelligence and Its Applications (IFIP CIIA 2018)
- **Islam, A.**, 31st International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems IEA-AIE 2018
- **Islam, A.**, 6th International Symposium on Language & Knowledge Engineering, 2018
- **Jin, M.**, ALGOSENSORS 2018
- **Jin, M.**, Geometric Modeling and Processing (GMP) 2014, 2015, 2016, 2018
- **Jin, M.**, INNOV 2013, 2014, 2015, 2016, 2018
- **Jin, M.**, ICIT 2014, 2018
- **Jin, M.**, SENSORCOMM 2013, 2014, 2015, 2016
- **Kulshreshth A.**, ACM Conference on Intelligent User Interfaces, 2018
- **Lakhotia, A.**, Co-Chair, Technical Program Committee, 9th IEEE International Conference on Malicious and Unwanted Software (MALWARE), Fajardo, Puerto Rico, 2014.
- **Lakhotia, A.**, Program Committee, Program Protection and Reverse Engineering Workshop, San Diego, CA, USA, 2014.
- **Meche, M.A.**, Quality Matters Training Certificate Progam, Applying the Quality Matters Rubric 5th Edition Workshop, Online, August 2014.
- **Meche, M.A.**, Online Learning Consortium Blended Learning Conference and Workshop, Online, July 2014.
- **Perkins, D.**, Vehicular Technology Conference. Ad-hoc and Sensor Networks Track.
- **Perkins, D.**, IEEE International Conference on Computer Communications and Networks (ICCCN).

- **Perkins, D.**, IEEE International Symposium on World of Wireless, Mobile and Multimedia Networks (WOWMOM).
- **Perkins, D.**, Conference Referee:
  - IEEE INFOCOM
  - IEEE GLOBECOM
  - IEEE International Conference on Computer Communications and Networks (ICCCN)
  - IEEE Wireless Communications & Networking Conference (WCNC);
  - IEEE Vehicular Technology Conference
  - IEEE International Symposium on World of Wireless, Mobile and Multimedia Networks (WoWMoM)
  - The Symposium on Performance Evaluation of Computer and Telecommunication Systems (SPECTS)
  - IEEE International Conference on Communications (ICC)
  - International Conference on Intelligent Sensors, Sensor Networks, and Information
- **Reiners, D.**, IEEE Virtual Reality (VR) 2008-2013.
- **Reiners, D.**, International Symposium on Visual Computing (ISVS) 2008-2013.
- **Reiners, D.**, International Conference on Artificial Reality and Telexistence (ICAT) 2011, 2013.
- **Reiners, D.**, ACM Virtual Reality Software and Technology (VRST), 2013.
- **Reiners, D.**, Joint Virtual Reality Conference of EuroVR - VEC (JVRC), 2013.
- **Reiners, D.**, Symposium on Virtual and Augmented Reality (SVR) 2008 - 2013
- **Raghavan, V.V.**, 12th International Symposium on Artificial Intelligence and Applications (AAIA 2017)
- **Raghavan, V.V.**, Area Chair, Technical Program Committee, 2018 International Conference on Data Mining (ICDM 2018), Singapore, November 2018
- **Raghavan, V.V.**, The 7th Special Session on Parallel and Distributed Data Mining (PDDM'18) in conjunction with HPCS 2018. 2018 International Conf. on Machine Learning and Data Science (ICMLDS 2018)
- **Raghavan, V.V.**, 3rd Workshop on Real-time & Stream analytics in Big Data & Stream Data Management in conjunction with
- **Raghavan, V.V.**, 2018 IEEE Big Data Conf.
- **Raghavan, V.V.**, 2018 First Int'l Workshop on AI Methods in Data Mining Challenges (DMGATE'18) in conjunction with FedCSIS
- **Raghavan, V.V.**, IEEE Conf. on Big Knowledge (ICBK-17)
- **Raghavan, V.V.**, The 37th Int'l Conference on Distributed Computing Systems (ICDCS 2017)
- **Raghavan, V.V.**, 3rd Int'l Conference on Web Intelligence, Mining and Semantics (WIMS-2013).
- **Raghavan, V.V.**, Joint Rough Sets Symposium (JRS 2013).
- **Raghavan, V.V.**, IEEE Advanced Video and Signal Processing Surveillance.
- **Wu, H.**, Conference on Computer Communications (INFOCOM). Recognized as a Distinguished Member of the 2015 IEEE INFOCOM Technical Program Committee, 2015.

- **Wu, H.**, ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc), 2014.
- **Wu, H.**, IEEE Conference on Computer Communications (INFOCOM), 2014.
- **Wu, H.**, IEEE International Conference on Distributed Computing Systems (ICDCS), 2014.
- **Wu, H.**, ACM Int'l Conference on Modeling, Analysis, and Simulation of Wireless and Mobile Systems (MSWiM), 2014.
- **Wu, H.**, IEEE Global Communications Conference (GLOBECOM), 2014.
- **Wu, H.**, IEEE International Conference on Communications (ICC), 2014.
- **Wu, H.**, IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS), 2014.
- **Wu, H.**, ACM International Symposium on Mobility Management and Wireless Access (MobiWac), 2014.
- **Wu, H.**, International Conference on Computing, Networking and Communications (ICNC), 2014.
- **Wu, H.**, The First International Workshop on Mobile Cloud and Social Computing, in conjunction with ICDCS, 2014.
- **Wu, H.**, IEEE WoWMoM Workshop on Autonomic and Opportunistic Communications (AOC), 2014.
- **Wu, H.**, IEEE/ACM International Symposium on Quality of Service (IWQoS), 2014.
- **Wu, H.**, International Conference on QoS in Heterogeneous Wired/Wireless Networks (QShine), 2014.
- **Wu, H.**, IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), 2014.
- **Wu, H.**, IEEE Conference on Computer Communications (INFOCOM), 2013.
- **Wu, H.**, IEEE Global Communications Conference (GLOBECOM), 2013.
- **Wu, H.**, IEEE International Conference on Mobile Ad-Hoc and Sensor Systems (MASS), 2013.
- **Wu, H.**, ACM Int'l Conference on Modeling, Analysis, and Simulation of Wireless and Mobile Systems (MSWiM), 2013.
- **Wu, H.**, IEEE International Conference on Communications (ICC), 2013.
- **Wu, H.**, IEEE International Conference on Computer Communications and Networks (ICCCN), 2013.
- **Wu, H.**, IEEE International Conference on Distributed Computing in Sensor Systems (DCOSS), 2013.
- **Wu, H.**, IEEE International Conference on Networking, Architecture, and Storage (NAS), 2013.
- **Wu, H.**, The First International Workshop on Mobile Cloud and Social Computing, in conjunction with ICDCS, 2013.
- **Wu, H.,** IEEE WoWMoM Workshop on Autonomic and Opportunistic Communications (AOC), 2013.
- **Wu, H.,** IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC), 2013.
- **Wu, H.,** IEEE International Conference on Communications (ICC), 2009-2014.

- **Wu, X.**, Program Committee, KDD 2017: 23rd ACM SIGKDD Conference on Knowledge Discovery and Data Mining, 2017
- **Wu, X.**, Area Chair, ICDM '17: the 17th IEEE International Conference on Data Mining, 2017.
- **Yuan, X.**, IEEE INFOCOM 2018
- **Yuan, X.**, ICNC 2018
- **Yuan, X.**, IEEE GreenCom 2018
- **Yuan, X.**, MSN 2018
- **Zhao, D.**, Organize a SoC Tech Tutorial School with 27th IEEE International system-on-chip Conference with IEEE CASS initiative grant, 2014.
- **Zhao, D.**, Best Paper Award Selection Committee Member, IEEE Asia and South Pacific Design Automation Conference, 2015.
- **Zhao, D.**, 10-Year Retrospective Most Influential Paper Award Selection Committee Member, IEEE Asia and South Pacific Design Automation Conference, 2015.
- **Zhao, D.,** IEEE/ACM International Symposium on NOCs.
- **Zhao, D.,** IEEE European Test Symposium.
- **Zhao, D.,** IEEE International Conference on Computer Communications and Network.
- **Zhao, D.,** IEEE Computer Society Annual Symposium on VLSI.
- **Zhao, D.,** IEEE International Conference on Computer Design

Conference Reviewers

- **Borst, C.**, Reviewer and IPC member, IEEE VR Conference Papers 2018
- **Borst, C.,** Reviewer and IPC member, IAT-EGVE 2017
- **Borst, C.**, Reviewer, ACM UIST 2017
- **Borst, C.**, Reviewer, ACM SIGGRAPH 2017 technical papers
- **Borst, C.**, Reviewer, Eurohaptics 2016.
- **Borst, C.**, ACM Transactions on Multimedia Computing, Communications and Applications, 2014.
- **Borst, C.**, ACM CHI: Conference on Human Factors in Computing Systems, 2014-2015.
- **Borst, C.**, IEEE VR Conference, 2014-2015.
- **Borst, C.**, IEEE Haptics Symposium, 2014.
- **Borst, C.**, Europhaptics Conference, 2014.
- **Borst, C.**, Reviewer, IEEE Haptics / Worldhaptics conference, 2011-2015.
- **Borst, C.**, Reviewer, IEEE 3DUI conference, 2013, 2015-2016.
- **Chen, S.**, International Conference on Functional Programming, 2018
- **Hsu, S.H-Y.**, Hawaii International Conference on System Sciences (HICSS), 2014-Present
- **Hsu, S.H-Y.**, Journal of Business, 2014
- **Hsu, S.H-Y.**, Decision Sciences Institute (DSI)
- **Jin, M.**, Proposal Review: US National Science Foundation, Georgian National Science Foundation, 2014.

- **Jin, M.**, IEEE Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON).
- **Jin, M.**, IEEE International Conference on Computer Vision (ICCV).
- **Kulshreshth, A.**, ACM CHI Conference on Human Factors in Computing Systems, 2018
- **Kulshreshth, A.**, ACM Conference on Intelligent User Interfaces, 2018
- **Kumar, A.**, IEEE Systems Conference, 2014.
- **Loganantharaj, R.**, International Journal of Bioinformatics Research and Applications (UBRA), 2014.
- **Perkins, D.**, IEEE ICC Conference, 2014.
- **Perkins, D.**, Technical Program Committee - IEEE International Conference on Computers and Communications, 2014.
- **Perkins, D.**, 4 NSF Proposal Review Panels, 2014.
- **Reiners, D.**, ASME International Design Engineering Technical Conferences (IDETC), 2008-2013.
- **Zhao, D.**, Journal/Conference Reviewer, 2014:
  - IEEE Transactions on Parallel and Distributed Systems (TPDS):
    - Scientific Workflow Optimization
    - Design and Implementation of Open Flow-based Dynamic Resource Allocation Mechanism in Inter-Cloud on NetFPGA
    - Temporal Consistency Maintenance Upon Partitioned Multiprocessor Platforms
    - On an Integration of Workflow Mapping and Scheduling for Delay Minimization in Distributed Environments
    - Energy-Constrained Bi-Objective Data Muling in Underwater Wireless Sensor Networks
  - IEEE Transactions on CAD (TCAD), A Runtime Tunable Transmitting Power Technique for Improving Energy Efficiency in mm-Wave WiNoC Architectures, 2014.
  - IEEE Transactions on Reliability (TR) Special Section on Trustworthy Computing A Low-Cost Unified Design Methodology for Secure Test and IP Core Protection, 2014.
  - IEEE Transactions on VLSI (TVLSI), 2014:
    - High-Performance Deadlock-Free ID Assignment for Advanced Interconnect Protocols,
    - Design of 8x8 DCT Processor for High Accuracy High Performance Applications,
    - An Offline Method for Designing Adaptive Routing Based on Pressure Model.
  - ACM Transactions on Embedded Computing Systems (TECS), Action-level, Real-Time Network-on-Chip Modeling with DEVS and Statecharts Specifications, 2014.
  - ACM Journal of Emerging Technologies in Computing Systems (JETC), Design of 3D Wireless Network-on-Chip Architectures with Microchannel-Based Cooling, 2014.
  - IEEE Internet of Things Journal, Towards a Practical Energy Conservation Mechanism with Assistance of Resourceful Mules, 2014.
  - Integration - the VLSI Journal, Managing Integrated Systems Test Without Contact, 2014.

- DAC (3 papers), ASP-DAC (18 papers), ICCCN (8 papers), SOCC (10 papers), ISCAS (12 papers), ATS (3 papers), NATW (3 papers), WRTLT (4 papers), and ICSEC (3 papers), 2014.
- **Zhao, D.,** IEEE/ACM International Symposium on Networks-on-Chip.
- **Zhao, D.,** IEEE/ACM Design Automation Conference.
- **Zhao, D.,** IEEE International Test Conference.
- **Zhao, D.,** IEEE Asia and South Pacific Design Automation Conference.
- **Zhao, D.,** IEEE VLSI Design.
- **Zhao, D.,** IEEE Computer Society Annual Symposium on VLSI.
- **Zhao, D.,** IEEE European Test Symposium.
- **Zhao, D.,** IEEE Asian Test Symposium.
- **Zhao, D.,** IEEE International Symposium on Circuits and Systems (ISCAS), 2014.

Other Professional Activities

- **Amini**, **M.** NSF proposal panelist, Computer Network Systems (CNS) Computer Systems Research (CSR), 2018.
- **Bayoumi, M.A.**, Hosted Lafayette Junior Leadership, Technology & Innovation Day,
- **Bayoumi, M.A.,** participated in Building Community event, Lafayette Chamber of Commerce, 2012-2015.
- **Bayoumi, M.A.,** External Advisor Board Member, Historically Black Colleges and Universities - Undergraduate Program (HBCU-UP).
- **Bayoumi, M.A.,** Member: International Award Committee, Le Centre International de Lafayette.
- **Bayoumi, M.A.,** Board Member: Le Centre International de Lafayette, 2008-2015.
- **Bayoumi, M.A.,** Member: Lafayette Chamber of Commerce, 2008-2015.
- **Bayoumi, M.A.,** Member: Multimedia Systems and Applications Technical Committee of the IEEE Circuits and Systems, 2008-2013.
- **Bayoumi, M.A.,** Member: Neural Networks Technical Committee of the IEEE Circuits and Systems, 2008-2013.
- **Bayoumi, M.A.,** Member: VLSI Systems and Applications Technical Committee of the IEEE Circuits and Systems, Past Chairman of the Committee; also a Founding Member of this Committee, 2008-2013.
- **Bayoumi, M.A.,** Member: VLSI Signal Processing Technical Committee of the IEEE Signal Processing Society, Past Chair, 2008-2013.
- **Bayoumi, M.A.,** Member: Technical Program Committee of the IEEE Workshop on Signal Processing Design and Implementation, 2008-2013.
- **Bayoumi, M.A.,** Member: Technical Program Committee of the International Symposium on Circuits and Systems (VLSI) Track, 2008-2013.
- **Bayoumi, M.A.,** Member: Technical Committee on Circuits and Systems for Communication, former Chair (2009), 2008-2013.
- **Bayoumi, M.A.,** Member: Steering Committee of the IEEE Midwest Symposium on Circuits and Systems, 2008-2013.

- **Bayoumi, M.A.,** Member, Steering Committee of the Workshop on Computer Architecture for Machine Perception (CAMP), 2008-2013.
- **Bayoumi, M.A.,** Commission: IEEE Fellows Selection Committee.
- **Bayoumi, M.A.,** Commission: ABET Commissioner & Team Chair.
- **Borst, C.**, Lab presence at Gigabit Community Fund Celebration in Mountain View, CA August 15, 2018
- **Borst, C.**, IEEE VR 3DUI contest judge, 2018
- **Borst, C.**, IEEE VR poster judge, 2018
- **Borst, C.**, NSF proposal reviewer, 2016, 2018
- **Borst, C.**, Awards panel (paper judge), ACM Spatial User Interfaces 2016
- **Borst, C.**, Session Chair (Virtual Reality), ISVC 2016
- **Borst, C.**, NSF proposal review panel, HCC program, 2013
- **Chu, C.H.**, Reviewer, Kentucky Commercialization Fund, Kentucky Science and Engineering Foundation, 2014.
- **Chu, C.H.**, Reviewer, Louisiana Board of Regents' Supervised Undergraduate Research Experience Program, 2013-Present.
- **Chu, C.H.**, Reviewer, IEEE International Conference for Image Processing, 1996-Present.
- **Chu, C.H.**, Invited Participant, U. S. Intelligence Community Postdoctoral Research Fellowship Program, 2014.
- **Chu, C.H.**, Panelist, U. S. National Defense Science and Engineering Graduate Program, 2014.
- **Chu, C.H.**, Member, Digital Media and Enterprise Software Task Force, Louisiana Board of Regents' Master Plan Research Advisory Committee, 2014.
- **Chu, C.H.**, Member, LONI Allocations Committee, 2014.
- **Chu, C.H.,** Louisiana Board of Regents' Experimental Program to Stimulate Competitive Research (EPSCoR) Program Committee, member, 2006-Present.
- **Chu, C.H.,** Louisiana Board of Regents Master Plan Research Advisory Committee, Digital Media and Enterprise Software Task Force, member, 2013
- **Chu, C.H.,** UL Lafayette Learning Analytics Task Force, member, 2013.
- **Chu, C.H.,** UL Lafayette Graduate Education Governance Task Force, member, 2013.
- **Chu, C.H.,** UL Lafayette Blue Ribbon Commission on Healthcare, member, 2013.
- **Chu, C.H.,** Board of Regents' LONI High Performance Computing Users Symposium, Science Advisory Committee Member, 2013.
- **Dasgupta, S.**, Reviewer, Oxford University Press
- **Gastineau, M.P.**, Member and Visibility Committee, NBEA/NABTE Teacher Education Summit Task Force, (2008-2013).
- **Gastineau, M.P.**, Owner, Software Education Plus, LLC, (2010-Present).
- **Hsu, S.H-Y.**, SAP Curriculum Workshop / SAP Site License Administrator, 2011-2014.
- **Hsu, S.H-Y.**, SAP ERP Basic Online Training, 2011-2014.
- **Hsu, S.H-Y.**, SAP UA 2014 Academic Conference, Atlanta, GA, 2014.
- **Hsu, S.H-Y.**, SAP TERP 10 workshop, TERP certified.
- **Hsu, S.H-Y.**, SAP ERP Advance Training, Sam Houston State University, Texas, 2013.

- **Hsu, S.H-Y.**, Conduct/supervise App Inventor Workshop for high school students, 2013.
- **Hsu, S.H-Y.**, Academic Liason, STARS (Students and Teachers as Research Scientists) Program, UL Lafayette School of Computing and Informatics, 2013.
- **Hsu, S.H-Y.**, 2013 STARS (Students and Teachers As Research Scientists) Conference, Atlanta, Georgia, 2013.
- **Islam, A.**, reader/committee member, M.C.Sc. thesis of Kyle Tilbury, Faculty of Computer Science, Dalhousie University, October 2018.
- **Islam, A.**, Mitacs Accelerate research proposal (Canada), 2018
- **Istre, W.L.**, Regional Science Fair Judge, 2014.
- **Istre, W.L.**, CMPS/CACS Graduate Assistant Placement, 2014.
- **Istre, W.L.**, Literary Rally Exam Proctor/Grader, 2014.
- **Istre, W.L.**, Judge, Mini-Urban Challenge, 2015.
- **Jin, M.**, Computational results of Discrete Ricci flow have been used as the illustration of the proof of Poincare conjecture in New York Times and the cover of a Mathematics book entitled Mathematics for Elementary Teachers: A Contemporary Approach (eighth edition).
- **Jin, M.**, NSF Panelist, NSF CCF 2012, 2013.
- **Jin, M.**, Proposal review, US National Science Foundation, Georgian National Science Foundation.
- **Jin, M.**, Book proposal reviewer: Bentham Science Publishers.
- **Kumar, A.**, Editor-in-Chief, International Journal on Embedded Systems and Applications, 2014.
- **Kumar, A.**, Editorial board member, International Journal on Software Engineering and Applications, 2014.
- **Lakhotia, A.**, Scientific Consulting, 2015:
  - CEO, Founder, Cythereal, LLC, Lafayette, LA
  - Expert Consultant, Hawkins and Garbin, LLC, Lafayette, LA
  - Co-Member, Evidence Management Systems, LLC, New Orleans
  - Co-Founder, OnlineCSR.com
  - Consultant and Technical Project Manager, Med-Data Management, Inc.
  - Expert Consultant, Lamothe & Hamilton Law Firm
  - Advisor, The Solution Set, Inc., Lafayette, LA
  - Consulting Scientist, SICOR Consortium, New Jersey
  - President and CEO, Lakhotia Software, Inc. (www.lakhotia-software.com)
- **Lakhotia, A.**, Organizer, 3rd Annual Lafayette Holi Festival, 2014-Present.
- **Lakhotia, A.**, Advisor, Acadiana Indian Association, 2014.
- **Lakhotia, A.**, Adjunct Professor, Amrita University, Amritapuri, India. Offered online course on Software Protection. Fall 2011 and Fall 2013.
- **Lakhotia, A.**, Adjunct Professor, Birla Institute of Technology and Science, Pilani, India. Setup a Practice School Station at UL Lafayette for their senior internship. Hosted interns in Spring 2012 and Spring 2013.
- **Lormand, L.D.**, Member, Acadiana Entrepreneurs Group, 2015.
- **Lormand, L.D.**, Member, 705 Emerging Leaders, 2014-15.

- **Lormand, L.D.**, Quality Matters Certification, UL Lafayette Office of Distance Learning.
- **Lormand, L.D.**, Board Member, Krewe des Chiens, 2014.
- **Lormand, L.D.**, Committee Chairperson, American Cancer Society, 2014.
- **Lormand, L.D.**, Animal Rescue Foundation, 2014.
- **Lormand, L.D.**, Festival International Volunteer, 2014.
- **Maida, A.S.**, Ad hoc referee for: Cognitive Science, Computational Intelligence, CACM, Data and Knowledge Engineering, IEEE Transactions on Systems Man and Cybernetics, Journal of Experimental and Theoretical Artificial Intelligence, NSF, Encyclopedia of Artificial Intelligence, IEEE Computer, and IEEE Transactions on Neural Networks, 2015.
- **Meche, M.A.**, Board Member, Web Master, Louisiana Association of Business Educators, 2014.
- **Meche, M.A.**, Webmaster, Louisiana Association of Business Educators (LABE), (2012-2013)
- **Meche, M.A.**, participated in Quality Matters 2014 Training Certificate Program, *Applying the Quality Matters Rubric 5th Edition Workshop* (online August), 2014.
- **Meche, M.A.**, Attended the Online Learning Consortium Blended Learning Conference and Workshop, Online July 8-9, 2014.
- **Meche, M.A.**, Louisiana Association of Business Educators, 1987-15.
  - 2012-2014: Webmaster
- **Perkins, D.**, Federal Proposal Review Panels, 2015:
  - National Science Foundation
  - CISE
  - CNS
  - EARS
  - SBIR
  - CAREER
  - Department of Defense
- **Raghavan, V.V.**, Roundtable Participant, Challenges and Opportunities for Big Data Research and Development, *BigDat 2015*, Tarragona, Spain.
- **Raghavan, V.V.**, Review Panel, Hazard SEES, National Science Foundation, 2013.
- **Tzeng, N.-F.**, Member, IEEE Fellows Evaluation Committee, IEEE Computer Society, 2013-2016.
- **Tzeng, N.-F.**, Panelist for proposal evaluation, NSF Division of Computing and Communication Foundations, 2014, 2015, 2017.
- **West, B.P.**, Member, Board of Advisor of Academy of Information Technology (AOIT) Carencro High School, 2014.
- **West, B.P.**, Religious Education Teacher, St. Joseph's Catholic Church, Milton, LA, 2014.
- **West, B.P.**, Textbook Reviewer of Chapters 1, 3, 5, and 9, *Information Systems: A Practical Approach*, by F. Belanger and C. V. Slyke, (December 2009)
- **Wu, H.**, served on NSF panels during 2008-2014.
- **Wu, X.**, Panel Review, 2016.

- **Wu, H.**, served as an external Ph.D. dissertation reviewer for Nanyang Technological University (NTU), Singapore, 2014.
- **Wu, H.**, Tenure/Promotion Review:
  - University of North Carolina at Charlotte, 2014
  - Baylor University, 2015
  - University of Massachusetts Dartmouth, 2014
  - Nanyang Technological University (NTU), Singapore, 2014
  - National University of Singapore, 2013
- **Wu, H.**, NSF Panel Review, 2016, 2018.
- **Zhao, D.**, served on multiple NSF panels during 2008-2013.

Office Held and Professional Memberships

- **Borst, C.**, member. Association for Computer Machinery (ACM).
- **Borst, C.**, member. Institute of Electrical and Electronics Engineers (IEEE).
- **Chu, C.H.,** Registered Professional Engineer in Electrical Engineering, State of Louisiana.
- **Chu, C.H.,** Senior Member, Institute of Electrical and Electronic Engineers.
- **Chu, C.H.,** member. Association for Computing Machinery (ACM).
- **Chu, C.H.,** member. SPIE-The Optical Engineering Society.
- **Dasgupta, S.**, member. Association for Computer Machinery (ACM).
- **Dasgupta, S.**, member. History of Science Society.
- **Dasgupta, S.**, member. American Association for the Advancement of Science (AAAS).
- **Ducrest, F.**, member. Association for Computer Machinery (ACM).
- **Ducrest, F.**, member. SIGSE 2014.
- **Gastineau, M.P.**, member. Southern Business Education Association (SBEA)
- **Gastineau, M.P.**, member. Louisiana of Computer Using Educators (LACUE)
- **Hsu, S.H-Y.**, member. Decision Sciences Institute (DSI)
- **Hsu, S.H-Y.**, member. Hawaii International Conference on System Sciences (HICSS)
- **Hsu, S.H-Y.**, professional member. Association of Computing Machinery (ACM)
- **Jin, M.**, Reviewer book proposals, Bentham Science Publishers, 2015.
- **Jin, M.**, Member of Institute of Electrical and Electronics Engineers (IEEE)
- **Jin, M.,** mentor, Networking Networking Women (N2 WOMEN), 2014.
- **Kumar, A.**, Senior Member, IEEE.
- **Lakhotia, A.**, Senior Member of IEEE.
- **Lakhotia, A.**, ACM Student Chapter, CMIX, 2014.
- **Lakhotia, A.**, Member of ACM.
- **Logananthara j, R.**, Chair & Coordinator, Comprehensive Exam of Algorithm and AI, 2014.
- **Meche, M.**, member. The Honor Society of Phi Kappa Phi.
- **Meche, M.**, member. Phi Beta Delta, Honor Society for International Scholars.
- **Meche, M.**, member. Delta Phi Epsilon (Graduate honor society for business education).

- **Perkins, D.**, member. Department Admissions, 2014.
- **Perkins, D.**, Member of IEEE.
- **Perkins, D.**, Member of ACM.
- **Reiners, D.**, Member of IEEE.
- **Reiners, D.**, Member of ACM.
- **Reiners, D.**, Member of Eurographics.
- **Tozal, M.E.**, Professional Member, IEEE (Institute of Electrical and Electronics Engineers) 2015.
- **Tozal, M.E.**, Professional Member. IEEE (Institute of Electrical and Electronics Engineers).
- **Totaro, M.**, Professional Member, Association of Computing Machinery (ACM).
- **Tzeng, N.-F.**, member. IEEE Fellows Evaluation Committee, IEEE Computer Society, 2015-2016.
- **Tzeng, N.-F.**, Panelist for Proposal Evaluation, NSF Division of Computing and Communication Foundations, March 2015.
- **Tzeng, N.-F.**, member. IEEE Fellows Evaluation Committee, 2014.
- **Tzeng, N.-F.**, member. IEEE Computer Society, 2014.
- **Tzeng, N.-F.**, Panelist for proposal evaluation. NSF Division of Computing and Communication Foundations, February & June 2014.
- **Tzeng, N.-F.**, fellow. Institute of Electrical and Electronics Engineers (IEEE).
- **Tzeng, N.-F.**, member. Association of Computing Machinery (ACM).
- **Tzeng, N.-F.**, ember, USENIX (The Advanced Computing Systems Associations).
- **Tzeng, N.-F.**, member. American Association for the Advancement of Science (AAAS).
- **Tzeng, N.-F.**, member. Society of Petroleum Engineers.
- **West, B.P.**, Member, *the 705 Young Leaders for A Better Acadiana*, May 2013-Present
- **West, B.P.**, Member, Information Systems Audit and Control Association (ISACA), March 2009-Present.
- **West, B.P.**, member. Young University Professional Association (YUPA), August 2009-Present.
- **West, B.P.**, Board of Advisors Member, Academy of Information Technology (AOIT), Carencro High School, August 2009-Present.
- **Wu, H.**, member. IEEE.
- **Wu, H.**, member. ACM.
- **Zhao, D.**, member. IEEE CAS Society Technical Committee on VLSI Systems and Applications, IEEE CASS TC on Communications, IEEE CASS TC on Nanotechnologies and GigaScale Integration, 2015.
- **Zhao, D.**, Lockheed Martin Endowed Professor, CACS.
- **Zhao, D.,** member. IEEE, IEEE Computer society, IEEE Circuit and Systems society, IEEE Communication society, IEEE Women in Engineering
- **Zhao, D.,** member. ACM, ACM SIGDA
- **Zhao, D.,** member. Test Technology Technical Council
- **Zhao, D.,** member. JSPS Fellow US Alumni Association

University Service

- **Bayoumi, M.A.**, Coordinator for CACS Seminars and Distinguished Lecture Series.
- **Bayoumi, M.A.**, Faculty Recruiting Committee Member, 2014.
- **Bayoumi, M.A.**, Comprehensive Exams: Computer Design and VLSI, 2008-2015.
- **Bayoumi, M.A.**, Comprehensive Exams: Computer Architecture, 2013.
- **Borst, C.**, Chair, CMIX PR Committee, 2016-2017
- **Borst, C.**, CMIX Faculty Recruiting Committee, 2016-2017
- **Borst, C.**, CMIX Graduate Committee, 2016-2017
- **Borst, C.**, CMIX online master's committee, 2016
- **Borst, C.**, CMIX Executive Committee, Spring 2016
- **Borst, C.**, Referee for CACS Student Poster/Paper Contest, 2015.
- **Borst, C.**, Prominent summer research awards reviewer (grants awards to students), 2015.
- **Borst, C.**, CACS Accreditation Committee, 2015.
- **Borst, C.**, CACS Department Newsletter - editing and working with students, 2015.
- **Borst, C.**, CACS Department Web Page - created pages for new faculty members, 2015.
- **Borst, C.**, CMPS Department Recruiting/Retention Committee, 2015.
- **Borst, C.**, Regular participation in department comprehensives, seminars, poster contests, etc., 2015.
- **Borst, C.**, Faculty Senate, 2013-2016.
- **Borst, C.**, Assistant Director, UL Lafayette CAVE Fellows visualization and computing group, spring 2014.
- **Borst, C.**, Member, UL Lafayette Graduate Appeals Committee, 2014-2016
- **Borst, C.**, Chair, CACS Events & Activity Committee, 2014.
- **Borst, C.**, Member, CACS Domestic Recruiting Committee, 2014.
- **Chu, C.H.,** Member, UL Lafayette Task Force on Graduate School Governance, 2013-2014.
- **Chu, C.H.,** Member, UL Lafayette College of Sciences Distinguished Professor/Excellence in Teaching Award Committee, 2014.
- **Chu, C.H.,** Member, CACS Executive Committee, 2014.
- **Chu, C.H.,** Member, Informatics Research Institute Executive Team, 2014.
- **Chu, C.H.**, member. University Department Head Task Force, Fall 2015-Present.
- **Chu, C.H.,** member. Graduate School Review Task Force, Fall 2013-Spring 2014.
- **Chu, C.H.**, member. University Strategic Program Review Committee, Fall 2015-Present.
- **Etheredge, J.**, Coordinator, Video Game Design & Development concentration, 2014
- **Etheredge, J.**, Internship Coordinator, 2014.
- **Etheredge, J.**, Chair, CMPS Faculty Search Committee, 2014
- **Etheredge, J.**, Chair, Internship Committee, 2014.
- **Etheredge, J.**, Member, Faculty Senate, 2014.
- **Gastineau, M.P.**, Chair, Distance Learning Committee, 2014.
- **Gastineau, M.P.**, member. Social Committee, 2014.

- **Gastineau, M.P.**, College of Science's Facebook page, assisted Brian West with updating page with pertinent information.
- **Gastineau, M.P.**, National Business Education Association, worked computer workshops at National Conference, Los Angeles, CA, April 15-19, 2014.
- **Gastineau, M.P.**, Chaplain (July 2010-Present), Executive Board Member, Louisiana Association of Business Educators (LABE)
- **Hsu, S.H-Y.**, Coordinate Informatics majors' experiential work on class projects (INFX 210, 481, and 490) with local and regional small businesses (2012-2013).
- **Istre, W.L.**, Operations Coordinator for the faculty, 2015.
- **Istre, W.L.**, Advising of 90+ CMPS students, 2015.
- **Istre, W.L.**, Honors Advisor CMPS Honors Students, 2015.
- **Istre, W.L.**, CMPS Summer Orientation/Advisor, 2015.
- **Istre, W.L.**, CMPS Course Coordinator for: CMPS150, 351, & 352, 2015.
- **Istre, W.L.**, CMPS Dept. Representative on Preview Day(s), 2015.
- **Istre, W.L.**, CMPS Semester Class Scheduling, 2015.
- **Istre, W.L.**, Preparation of Degree Plan for All Graduating Seniors, 2015.
- **Istre, W.L.**, Transcript Evaluations for Transfer Students, 2015.
- **Istre, W.L.**, CMPS Dept. Scholarship Coordinator, 2015.
- **Istre, W.L.**, Coordination of Semester Majors Meetings, 2015.
- **Istre, W.L.**, Coordinator of Annual SpringFest Activities, 2015.
- **Istre, W.L.**, Oliver Hall Task Force, 2014.
- **Istre, W.L.**, School of Computing RAP (Recruitment/Assessment/Promotion) Team, 2014.
- **Istre, W.L.**, College of Sciences Commencement Committee, 2014.
- **Istre, W.L.**, Faculty Senate, 2014.
- **Istre, W.L.**, Advanced Credit Exam (ACE) Proctor/Grader, 2014.
- **Jin, M.**, Chair, Grievance Committee, 2014.
- **Jin, M.**, Faculty Coordinator, Networking Seminar, 2014.
- **Jin, M.**, Member, CACS Faculty Search Committee, 2015.
- **Jin, M.**, Member, CMIX Director Search Committee, 2015.
- **Jin, M.**, Chair, CACS Department Grievance Committee, 2015.
- **Jin, M.**, Faculty Coordinator, Algorithm Seminar, 2015.
- **Jin, M.**, Faculty Coordinator, Networking Seminar, 2015.
- **Kumar, A.**, Associate Director for The School of Computing and Informatics, 2014.
- **Kumar, A.**, Assessment Officer of CMPS Program.
- **Kumar, A.**, Active Contributor to assessment of CMPS & CACS Programs, received SACS Accreditation for CMIX, 2014.
- **Kumar, A.**, member. UL SACS Accreditation Board, 2014.
- **Lakhotia, A.**, University Assessment Council, Graduate School Appointee, 2014.
- **Lakhotia, A.**, Graduate Council, Appointee of the Dean of Graduate School, 2014.
- **Lakhotia, A.**, member. Faculty Senate, 2014.
- **Lakhotia, A.**, Chair, Programming Languages - Ph.D. Comprehensive Exam Committee, 2014.
- **Lakhotia, A.**, Advisor, Association of Indian Students, 2014.

- **Lormand, L.**, INFX 205, Course Development, 2015-Present.
- **Lormand, L.**, Distance Learning Initiative, 2015-Present.
- **Lormand, L.**, Outreach/Recruit, 2015-Present.
- **Lormand, L.**, Administer Advanced Credit Exam for INFX 205, 2015-Present.
- **Lormand, L.**, INFX 418, Assessment assistance, January 2014.
- **Lormand, L.**, Faculty Coordinator for AITP, 2014.
- **Lormand, L.**, INFX 418, Assessment assistance, January 2014.
- **Lormand, L.**, UNIV 200 Assessment Committee Chair, 2013-Present.
- **Lormand, L.**, UNIV 200 Operations Coordinator, August 2012-Present.
- **Lormand, L.**, Administer Advanced Credit Exam for UNIV 200, 2012-Present.
- **Perkins, D.**, Chair, Graduate Council, University of Louisiana at Lafayette.
- **Perkins, D.**, Faculty Senate Member, 2014.
- **Perkins, D.**, member. College of Sciences Strategic Planning Committee, 2014.
- **Perkins, D.**, Chair. School of Computing & Informatics Strategic Planning Committee, 2014.
- **Raghavan, V.V.**, Chair. CACS International Recruitment Committee, 2014.
- **Raghavan, V.V.**, Chair. CACS Diversity Committee, 2014.
- **Raghavan, V.V.**, member. CACS Colloquium Committee, 2014.
- **Raghavan, V.V.**, member. CACS Personnel Committee, 2014.
- **Tozal, M.E.**, member. Academic Affairs and Standards Committee (Sciences College), UL Lafayette, 2015.
- **Tozal, M.E.**, Chair. Informatics Program Curriculum Committee, School of Computing and Informatics, UL Lafayette, 2014.
- **Tozal, M.E.**, Member of the Informatics Program Curriculum Committee, School of Computing and Informatics, UL Lafayette.
- **Tozal, M.E.**, Member of the Informatics Program Distance Learning Initiative Committee, School of Computing and Informatics, UL Lafayette.
- **Tozal, M.E.**, Chair of the Informatics Program Research Committee, School of Computing and Informatics, UL Lafayette.
- **Tozal, M.E.**, Chair. Informatics Program Research Committee, School of Computing and Informatics, UL Lafayette, 2014.
- **Tozal, M.E.**, Member, Residency Committee, UL Lafayette, 2014.
- **Tozal, M.E.**, member. Informatics Program Distance Learning Initiative Committee, School of Computing & Informatics, UL Lafayette, (2013-2014).
- **Totaro, M.**, Chair. Dean's Representative, Science Day/SMART Festival Committee, since January 2015.
- **Totaro, M.**, member. Parking Planning Committee, Spring 2015.
- **Totaro, M.**, Chair. Informatics Technology Advisory Council, Fall 2015-Present.
- **Totaro, M.**, Chair. College's Recruiting, Assessment, and Promotion (RAP) Team, 2014-Present.
- **Totaro, M.**, Informatics Program Coordinator, May 2011-May 2014.
- **Totaro, M.**, Chair & Member, University General Education Committee, Fall 2013-Present.

- **Totaro, M.**, member. Graduate Faculty, Level 2 (5 year term, Spring 2015-Fall 2019), 2015.
- **Totaro, M.**, Associate Dean, Ray P. Authement College of Sciences, (October 2014-May 2015).
- **Totaro, M.**, Acting Director, School of Computing and Informatics, UL Lafayette, (October 2014-May 2015).
- **Totaro, M.W.**, Co-Chair, Task Force: Study James R. Oliver Hall Space, Member IT Rapid Action Team (General Education Subcommittee, December 2104-April 15 2015.
- **Totaro, M.W.**, Co-Chair, Task Force: Explore issues pertaining to possible Informatics Program and/or School, Member IT Repaid Action Team (Gen. Ed Subcommittee).
- **Totaro, M.**, Distance Learning Leadership Council, Fall 2011-Summer 2015, Ray P. Authement College of Sciences Representative.
- **Tzeng, N.-F.**, Chair, CACS Comprehensive Exam - subject Computer Architecture, 2014.
- **Tzeng, N.-F.**, member. CACS Comprehensive Exam - subject Algorithms & Theory of Computation, 2014.
- **West, B.P.**, member. The 705 Young Professional.
- **West, B.P.**, University Student Discipline Committee, 2014.
- **West, B.P.**, University Continuing Education Committee, 2014.
- **West, B.P.**, College of Sciences Website/Outreach Committee, 2014.
- **West, B.P.**, Informatics Outreach Committee Chair, 2014.
- **West, B.P.**, Admin., College of Sciences STEP Lab, 2014.
- **West, B.P.**, INFX Program Virtual Desktop Infrastructure Implementation (VDI), 2014.
- **West, B.P.**, SinNET, Administrator, 2014.
- **West, B.P.**, Faculty Advisor, UL Lafayette Student Chapter of AITP, August 2009-May 2013.
- **Wu, H.**, Director, School of Computing and Informatics, 2014.
- **Wu, H.**, member. University Graduate Faculty Committee, 2014.
- **Wu, H.**, Chair, CACS Personnel Committee, 2014.
- **Wu, H.**, member. CACS Alumni Relation Committee, 2014.
- **Wu, H.**, member. CACS Event & Activity Committee, 2014.
- **Wu, H.**, member. CACS Recruiting Committee, 2014.
- **Zhao, D.**, member. UL Graduate Council, 2014.
- **Zhao, D.**, committee member. UL Lafayette Graduate Faculty Review, 2014.
- **Zhao, D.**, committee member. College of Science Peer Review, 2014.
- **Zhao, D.**, committee member. College of Science Professorship Selection, 2014.
- **Zhao, D.**, committee member. CACS Computer Engineering Student Application Review, 2014.

Pedagogical Innovations

- **Borst, C.**, Developed and tested novel educational VR software, deployed at three regional high schools: DTSMA, Comeaux, and STM.
- **Ducrest, F.**, Development of a series of smart device application development courses, 2010 through 2013.
- **Ducrest, F.**, Developed partnership with Red Stick Robotics, Inc. to offer dual enrollment classes centered on robotics to high school students around the State, currently working with Nona Istre to develop the curriculum for the dual enrollment courses. 2013.
- **Ducrest, F.**, Developed and offered mobile device applications programming courses including Android (2013), iPhone programming (2013).
- **Ducrest, F.**, Developed and offered an advanced course in IT programming using .net/C#/ASP.NET. 2013.
- **Etheredge, J.** and **Ducrest, F.**, Ongoing maintenance of both hardware and software in the Computer Science program's Video Game Design and Development concentration's game laboratory and motion capture laboratory.
- **Hsu, SH.-Y.**, Develop and incorporate SAP curriculum into the INFX curriculum, 2014.
- **Hsu, SH.-Y.**, Develop the Rubrics of Assessment for INFX 490 & 481, 2014.
- **Hsu, SH.-Y.**, Conduct and supervise AppInventor workshop, Layer of Technology - Social Engineering, Python, Computer Security Workshop for high school students, 2014.
- **Lakhotia, A.**, Led effort to develop dual-degree program with Amrita University, India. 2014.
- **Raghavan, V.V.**, presented short course on Visual Analytics of Time-Evolving Large-scale Graphs, at the *Big Data Winter School*, Tarragona, Spain, January 2015.
- **Raghavan, V.V.**, actively networking and developing industry contacts for the NSF Industry University Collaborative Research Center (I/UCRC) on the theme of ***Visual & Decision Informatics***, 2014.
- **Wu, H.,** Organized a weekly seminar that centers on computer network research. The participants included multiple faculty members and about 20 graduate students. 2014.