CURRICULUM VITAE

Jorge J. Ortiz
Assistant Professor
Electrical and Computer Engineering
Rutgers University
94 Brett Road,
Piscataway, NJ 08854-8058

Email: jortiz@alum.mit.edu
Web: http://jorgeortizphd.info
Phone: 617-784-6550

(a) Education & Training

University of California	Berkeley, CA	Computer Science	Ph.D., 2013
University of California	Berkeley, CA	Computer Science	M.S., 2010
M.I.T.	Cambridge, MA	Computer Science	B.S., 2003

(b) Academic Appointments

Sept. 2018 – present Assistant Professor, Rutgers University

(c) Industry Experience

Dec. 2019 – present	Quant. Research Baseball Ops., New York Yankees
Dec. 2013 – Aug. 2018	Research Staff Member, IBM Research
Jan. 2013 – Sept. 2013	Senior Software Engineer, Spire Global
Aug. 2003 – Feb. 2007	Software Engineer, Oracle Corp.

(d) Honors and Invited Talks

- Invited speaker at Columbia University, Embedded AI Seminar, February 2022
- Invited speaker at Texas Tech University (TTU) Computer Science Colloquium, February 2022
- Invited speaker at New Jersey Institute of Technology (NJIT) Computer Science Colloquium, November 2021
- Invited speaker at University of Massachusetts at Amherst (UMass Amherst) ECE Colloquium, October 2020
- Invited speaker at University of Southern California (USC), CPS-IoT Webinar, October 2020
- Invited speaker at NSF Workshop on the Dynamic Interaction of Embodied Human and Machine Intelligence, May 2019
- Invited speaker ECE Seminar at Emory University, February 2019
- **Keynote Speaker**: Workshop on Smart and Connected Indoor Environments *in conjunction with IEEE International Conference on Sensing, Communication and Networking (SECON 2017)*
- Qualcomm Innovation Fellowship Finalist 2011
- NSF Graduate Fellowship Honorable Mention 2008
- Ford Foundation Diversity Fellowship Honorable Mention 2008

(e) Grants and Funding

- NSF Engineering Research Center: The Center for Smart Streetscapes, National Science Foundation Award Abstract #2133516. Site PI Jorge Ortiz. $26,000,000 ($2.3M Rutgers portion).
- IUCRC Planning Grant Rutgers University: Center for Standards and Ethics in Artificial Intelligence (CSEAI), National Science Foundation Award Abstract #2137245. PI Jorge Ortiz. $20,000.
- Social Intelligence in the Automobile, Nissan Corporation. PI Jorge Ortiz. $20,000.

- ASPECT: Active Learning to Understand Family Social Behaviors in Automobile, Nissan Corporation. $20,000.
- SII Planning: ARIES: Center for Agile, RelIablE, Scalable Spectrum, National Science Foundation . PI: Narayan Mandayam. Co-PI Jorge Ortiz (25% effort). $50,000.

(f) Ph.D. Students

- Tahiya Chowdhury. Data-driven Techniques For Human Activity Sensing In Smart Environments. Expected graduation 12/2022.
- Murtadha Aldeer. Techniques and Systems for Smart Medication Adherence. Co-advisor: Richard Martin. Expected graduation 12/2022.
- Tong Wu. Human-Centered Machine Learning for Smart Sensing in Vehicles. Expected graduation 05/2023.
- Yuan Sun. Social Intelligence and Interaction in Sensed Environments. Expected graduations 05/2025.

(g) Recent Publications

Conferences and Journals

1. WU, T., SACHDEVA, E., AKASH, K., WU, X., MISU, T., AND ORTIZ, J. Toward an adaptive situational awareness support system for urban driving. In *2022 IEEE Intelligent Vehicles Symposium (IV)* (2022), pp. 1073–1080

2. WU, T., MARTELARO, N., STENT, S., ORTIZ, J., AND JU, W. Learning when agents can talk to drivers using the inagt dataset and multisensor fusion. *Proc. ACM Interact. Mob. Wearable Ubiquitous Technol. 5*, 3 (Sept. 2021) [**21% Acceptance Rate**]

3. ALDEER, M., HOWARD, R. E., MARTIN, R. P., AND ORTIZ, J. Unobtrusive patient identification using smart pill-bottle systems. *Internet of Things 14* (2021), 100389

4. HUSSAIN, Z., WATERWORTH, D., ALDEER, M., ZHANG, W. E., SHENG, Q. Z., AND ORTIZ, J. Do you brush your teeth properly? an off-body sensor-based approach for toothbrushing monitoring. In *2021 IEEE International Conference on Digital Health (ICDH)* (2021), pp. 59–69 [**20% Acceptance Rate**]

5. AKMANDOR, A. O., ORTIZ, J., MANOTAS, I., KO, B., AND JHA, N. K. Secret: Semantically enhanced classification of real-world tasks. *IEEE Transactions on Computers 70*, 3 (2021), 440–456 [**30% Acceptance Rate**]

6. JU, W., YAVO-AYALON, S., MANDEL, I., SALDARINI, F., FRIEDMAN, N., SIBI, S., ZAMFIRESCU-PEREIRA, J. D., AND ORTIZ, J. Tracking urban mobility and occupancy under social distancing policy. *Digit. Gov.: Res. Pract. 1*, 4 (Oct. 2020)

7. ALDEER, M., ORTIZ, J., HOWARD, R. E., AND MARTIN, R. P. Patientsense: Patient discrimination from in-bottle sensors data. In *Proceedings of the 16th EAI International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services* (New York, NY, USA, 2019), MobiQuitous '19, Association for Computing Machinery, p. 143–152

8. ORTIZ, J., CRAWFORD, C., AND LE, F. Devicemien: Network device behavior modeling for identifying unknown iot devices. In *Proceedings of the International Conference on Internet of Things Design and Implementation* (New York, NY, USA, 2019), IoTDI '19,

Association for Computing Machinery, p. 106–117 [**28% Acceptance Rate, Best Paper Finalist**]

9. NUTTER, M., CRAWFORD, C. H., AND ORTIZ, J. Design of novel deep learning models for real-time human activity recognition with mobile phones. In *2018 International Joint Conference on Neural Networks (IJCNN)* (2018), pp. 1–8

10. CHAKRABORTY, S., ORTIZ, J., AND JULIER, S. Role of influence functions in model interpretability (Conference Presentation). In *Ground/Air Multisensor Interoperability, Integration, and Networking for Persistent ISR IX* (2018), M. A. Kolodny, D. M. Wiegmann, and T. Pham, Eds., vol. 10635, International Society for Optics and Photonics, SPIE

11. LEE., W., **JORGE ORTIZ.**, KO., B., AND LEE., R. Inferring smartphone users' hand-written patterns by using motion sensors. In *Proceedings of the 4th International Conference on Information Systems Security and Privacy - Volume 1: ICISSP,* (2018), INSTICC, SciTePress, pp. 139–148 [**21% Acceptance Rate, Best Paper Award**]

12. GAO, Y., SCHAY, A., HOU, D., AND ORTIZ, J. Home appliance energy disaggregation using low frequency data and machine learning classifiers. In *2017 16th IEEE International Conference on Machine Learning and Applications (ICMLA)* (2017), pp. 76–83 [**17% Acceptance Rate**]

13. WANG, S., AND ORTIZ, J. Non-negative matrix factorization of signals with overlapping events for event detection applications. In *2017 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)* (2017), pp. 5960–5964

14. GANTI, R., SRIVATSA, M., AGRAWAL, D., ZERFOS, P., AND ORTIZ, J. Mp-trie: Fast spatial queries on moving objects. In *Proceedings of the Industrial Track of the 17th International Middleware Conference* (New York, NY, USA, 2016), Middleware Industry '16, Association for Computing Machinery [**21% Acceptance Rate**]

15. HONG, D., WANG, H., ORTIZ, J., AND WHITEHOUSE, K. The building adapter: Towards quickly applying building analytics at scale. In *Proceedings of the 2nd ACM International Conference on Embedded Systems for Energy-Efficient Built Environments* (New York, NY, USA, 2015), BuildSys '15, Association for Computing Machinery, p. 123–132 [**23% Acceptance Rate, Best Paper Finalist (2nd Highest Review Score)**]

16. BHATTACHARYA, A. A., HONG, D., CULLER, D., ORTIZ, J., WHITEHOUSE, K., AND WU, E. Automated metadata construction to support portable building applications. In *Proceedings of the 2nd ACM International Conference on Embedded Systems for Energy-Efficient Built Environments* (New York, NY, USA, 2015), BuildSys '15, Association for Computing Machinery, p. 3–12 [**23% Acceptance Rate, Best Paper Finalist, 1st Highest Review Score**]

17. HUANG, C.-C., CHEN, Q., WANG, Z., POWER, R., ORTIZ, J., LI, J., AND XIAO, Z. Spartan: A distributed array framework with smart tiling. In *2015 USENIX Annual Technical Conference (USENIX ATC 15)* (Santa Clara, CA, July 2015), USENIX Association, pp. 1–15 [**28% Acceptance Rate**]

18. FONTUGNE, R., ORTIZ, J., TREMBLAY, N., BORGNAT, P., FLANDRIN, P., FUKUDA, K., CULLER, D., AND ESAKI, H. Strip, bind, and search: A method for identifying abnormal

energy consumption in buildings. In *2013 ACM/IEEE International Conference on Information Processing in Sensor Networks (IPSN)* (2013), pp. 129–140 [**20% Acceptance Rate**]

19. MAASOUMY, M., **JORGE ORTIZ**, CULLER, D., AND SANGIOVANNI-VINCENTELLI, A. Flexibility of commercial building hvac fan as ancillary service for smart grid. In *IEEE Green Energy and Smart Systems Conference* (Oct 2013)
20. DAWSON-HAGGERTY, S., JIANG, X., TOLLE, G., ORTIZ, J., AND CULLER, D. Smap: A simple measurement and actuation profile for physical information. In *Proceedings of the 8th ACM Conference on Embedded Networked Sensor Systems* (New York, NY, USA, 2010), SenSys '10, Association for Computing Machinery, p. 197–210 [**17% Acceptance Rate**]
21. ORTIZ, J., AND CULLER, D. Multichannel reliability assessment in real world wsns. In *Proceedings of the 9th ACM/IEEE International Conference on Information Processing in Sensor Networks* (New York, NY, USA, 2010), IPSN '10, Association for Computing Machinery, p. 162–173 [**17% Acceptance Rate**]
22. ORTIZ, J., BAKER, C. R., MOON, D., FONSECA, R., AND STOICA, I. Beacon location service: A location service for point-to-point routing in wireless sensor networks. In *Proceedings of the 6th International Conference on Information Processing in Sensor Networks* (New York, NY, USA, 2007), IPSN '07, Association for Computing Machinery, p. 166–175 [**22% Acceptance Rate**]

Workshops, Posters, and Technical Reports

1. CHOWDHURY, T., AND ORTIZ, J. Cadence: A practical timeseries partitioning algorithm for unlabeled sensor streams. In *Under Submission* (2022)
2. CHOWDHURY, T., BHATTI, A., MANDEL, I., EHSAN, T., JU, W., AND ORTIZ, J. Towards sensing urban-scale covid-19 policy compliance in new york city. In *Proceedings of the 8th ACM International Conference on Systems for Energy-Efficient Buildings, Cities, and Transportation* (New York, NY, USA, 2021), BuildSys '21, Association for Computing Machinery, p. 353–356
3. CHOWDHURY, T., DING, Q., MANDEL, I., JU, W., AND ORTIZ, J. Tracking urban heartbeat and policy compliance through vision and language-based sensing. In *Proceedings of the 8th ACM International Conference on Systems for Energy-Efficient Buildings, Cities, and Transportation* (New York, NY, USA, 2021), BuildSys '21, Association for Computing Machinery, p. 302–306
4. WU, T., ALDEER, M., CHOWDHURY, T., HAYNES, A., NIKSERESHT, F., VARNOSFADERANI, M. P., GAO, J., HEYDARIAN, A., CAMPBELL, B., AND ORTIZ, J. The smart building privacy challenge. In *Proceedings of the 8th ACM International Conference on Systems for Energy-Efficient Buildings, Cities, and Transportation* (New York, NY, USA, 2021), BuildSys '21, Association for Computing Machinery, p. 238–239
5. WU, T., AND ORTIZ, J. Rlad: Time series anomaly detection through reinforcement learning and active learning. In *2021 7th SIGKIDD Workshop on Mining and Learning from Time Series (MILETS)* (2021)
6. CHOWDHURY, T., ALDEER, M., YU, J., FLORENTINE, J., HAYNES, A., AND ORTIZ, J. Is general purpose sensing a pipe dream? a case study in ambient multi-sensing for human

activity recognition. In *2021 IEEE The First International Workshop on Cyber-Physical-Human System Design and Implementation* (2021)

7. ALDEER, M., HOWARD, R., MARTIN, R. P., AND ORTIZ, J. Is that you again? adaptive learning techniques for user identification in smart pill bottle systems. In *2021 IEEE The First International Workshop on Cyber-Physical-Human System Design and Implementation* (2021)

8. ALDEER, M., ALAZIZ, M., ORTIZ, J., HOWARD, R. E., AND MARTIN, R. P. A sensing-based framework for medication compliance monitoring. In *Proceedings of the 1st ACM International Workshop on Device-Free Human Sensing* (New York, NY, USA, 2019), DFHS'19, Association for Computing Machinery, p. 52–56

9. WU, T., AND ORTIZ, J. Towards adaptive anomaly detection in buildings with deep reinforcement learning. In *Proceedings of the 6th ACM International Conference on Systems for Energy-Efficient Buildings, Cities, and Transportation* (New York, NY, USA, 2019), BuildSys '19, Association for Computing Machinery, p. 380–382

10. ALDEER, M., FLORENTINE, J., KOLODZIEJSKI, J., ORTIZ, J., HOWARD, R. E., AND MARTIN, R. P. Patient identification using a smart pill-bottle: Poster abstract. In *Proceedings of the 17th Conference on Embedded Networked Sensor Systems* (New York, NY, USA, 2019), SenSys '19, Association for Computing Machinery, p. 424–425

11. LEE, W.-H., ORTIZ, J., KO, B., AND LEE, R. Time series segmentation through automatic feature learning. *ArXiv abs/1801.05394* (2018)

12. KO, B. J., ORTIZ, J., SALONIDIS, T., TOUMA, M., VERMA, D., WANG, S., WANG, X., AND WOOD, D. Acoustic signal processing for anomaly detection in machine room environments: Demo abstract. In *Proceedings of the 3rd ACM International Conference on Systems for Energy-Efficient Built Environments* (New York, NY, USA, 2016), BuildSys '16, Association for Computing Machinery, p. 213–214

13. ORTIZ, J., HUANG, C., AND CHAKRABORTY, S. Get more with less: Fast image clustering on network of mobile phones. *1st Workshop for On Device Intelligence at The International Conference on Machine Learning (ICML 2016)* (Nov 2016), 16–19

14. MEHRA, M., BAGRI, A., JIANG, X., AND ORTIZ, J. Image analysis for identifying mosquito breeding grounds. In *2016 IEEE International Conference on Sensing, Communication and Networking (SECON Workshops)* (2016), pp. 1–6

15. ORTIZ, J., AND KIM, Y. Project tidy: Ranking time series for smart energy systems: Poster abstract. In *Proceedings of the 3rd ACM International Conference on Systems for Energy-Efficient Built Environments* (New York, NY, USA, 2016), BuildSys '16, Association for Computing Machinery, p. 227–228

16. KO, B. J., ORTIZ, J., SALONIDIS, T., TOUMA, M., VERMA, D., WANG, S., WANG, X., AND WOOD, D. Acoustic signal processing for anomaly detection in machine room environments: Demo abstract. In *Proceedings of the 3rd ACM International Conference on Systems for Energy-Efficient Built Environments* (New York, NY, USA, 2016), BuildSys '16, Association for Computing Machinery, p. 213–214

17. HONG, D., ORTIZ, J., BHATTACHARYA, A. A., AND WHITEHOUSE, K. Sensor-type classification in buildings. *CoRR abs/1509.00498* (2015)

18. BHATTACHARYA, A., CULLER, D., HONG, D., WHITEHOUSE, K., AND ORTIZ, J. Writing scalable building efficiency applications using normalized metadata: Demo abstract. In *Proceedings of the 1st ACM Conference on Embedded Systems for Energy-Efficient Buildings* (New York, NY, USA, 2014), BuildSys '14, Association for Computing Machinery, p. 196–197

19. BHATTACHARYA, A., CULLER, D., HONG, D., WHITEHOUSE, K., AND ORTIZ, J. Automated metadata transformation for a-priori deployed sensor networks. In *Proceedings of the 12th ACM Conference on Embedded Network Sensor Systems* (New York, NY, USA, 2014), SenSys '14, Association for Computing Machinery, p. 364–365

20. BHATTACHARYA, A., CULLER, D. E., ORTIZ, J., HONG, D., AND WHITEHOUSE, K. Enabling portable building applications through automated metadata transformation. Tech. Rep. UCB/EECS-2014-159, EECS Department, University of California, Berkeley, Aug 2014

21. HONG, D., ORTIZ, J., WHITEHOUSE, K., AND CULLER, D. Towards automatic spatial verification of sensor placement in buildings. In *Proceedings of the 5th ACM Workshop on Embedded Systems For Energy-Efficient Buildings* (New York, NY, USA, 2013), BuildSys'13, Association for Computing Machinery, p. 1–8

22. ORTIZ, J., NOH, Y., SALDANHA, G., SU, D., AND CULLER, D. Towards real-time, fine-grained energy analytics in buildings through mobile phones. In *Proceedings of the Fourth ACM Workshop on Embedded Sensing Systems for Energy-Efficiency in Buildings* (New York, NY, USA, 2012), BuildSys '12, Association for Computing Machinery, p. 42–44

23. FONTUGNE, R., ORTIZ, J., CULLER, D., AND ESAKI, H. Empirical mode decomposition for intrinsic-relationship extraction in large sensor deployments. In *Proceedings of the 1st Workshop on Internet of Things Applications, IoT-App* (Beijing, China, 2012), IPSN '12, ACM

24. KATZ, R. H., CULLER, D. E., SANDERS, S., ALSPAUGH, S., CHEN, Y., DAWSON-HAGGERTY, S., DUTTA, P., HE, M., JIANG, X., KEYS, L., KRIOUKOV, A., LUTZ, K., ORTIZ, J., MOHAN, P., REUTZEL, E., TANEJA, J., HSU, J., AND SHANKAR, S. An information-centric energy infrastructure: The berkeley view. *Sustainable Computing: Informatics and Systems 1*, 1 (2011), 7 – 22

25. LANZISERA, S., DAWSON-HAGGERTY, S., JIANG, X., CHEUNG, H. Y., TANEJA, J., LAI, J., ORTIZ, J., CULLER, D., AND BROWN, R. Wireless electricity metering of miscellaneous and electronic devices in buildings. In *2011 Future of Instrumentation International Workshop (FIIW) Proceedings* (2011), pp. 16–19

26. DAWSON-HAGGERTY, S., ORTIZ, J., JIANG, X., HSU, J., SHANKAR, S., AND CULLER, D. Enabling green building applications. In *Proceedings of the 6th Workshop on Hot Topics in Embedded Networked Sensors* (New York, NY, USA, 2010), HotEmNets '10, Association for Computing Machinery

27. HSU, J., MOHAN, P., JIANG, X., ORTIZ, J., SHANKAR, S., DAWSON-HAGGERTY, S., AND CULLER, D. Hbci: Human-building-computer interaction. In *Proceedings of the 2nd ACM Workshop on Embedded Sensing Systems for Energy-Efficiency in Building* (New York, NY, USA, 2010), BuildSys '10, Association for Computing Machinery, p. 55–60
28. ORTIZ, J. A system for managing physical data in buildings. Tech. Rep. UCB/EECS-2010-128, EECS Department, University of California, Berkeley, Sep 2010
29. ORTIZ, J., AND CULLER, D. Exploring diversity: Evaluating the cost of frequency diversity in communication and routing. In *Proceedings of the 6th ACM Conference on Embedded Network Sensor Systems* (New York, NY, USA, 2008), SenSys '08, Association for Computing Machinery, p. 411–412 [**Best Poster Award**]
30. DAWSON-HAGGERTY, S., ORTIZ, J., JIANG, X. F., AND CULLER, D. E. The effect of link churn on wireless routing. Tech. Rep. UCB/EECS-2008-109, EECS Department, University of California, Berkeley, Aug 2008
31. TAVAKOLI, A., DUTTA, P., JEONG, J., KIM, S., ORTIZ, J., CULLER, D., LEVIS, P., AND SHENKER, S. A modular sensornet architecture: Past, present, and future directions. *SIGBED Rev. 4*, 3 (July 2007), 49–54
32. JIANG, X., TANEJA, J., ORTIZ, J., TAVAKOLI, A., DUTTA, P., JEONG, J., CULLER, D., LEVIS, P., AND SHENKER, S. An architecture for energy management in wireless sensor networks. *SIGBED Rev. 4*, 3 (July 2007), 31–36

Ph.D. Thesis

1. ORTIZ, J. *A Platform Architecture for Sensor Data Processing and Verification in Buildings*. PhD thesis, EECS Department, University of California, Berkeley, Dec 2013

Masters Thesis

1. ORTIZ, J. Multichannel reliability assessment in real world wsns. Master's thesis, EECS Department, University of California, Berkeley, May 2010

Patents Issued

1. KANDLUR, D. D., FREIMUTH, D. M., LE, T. F., NAHUM, E., AND ORTIZ, J. J. Name based internet of things (iot) data discovery. In *US Patent 2019/10735370* (08 2020)
2. KO, B., MAKAYA, C., ORTIZ, J. J., AND VERMA, D. C. Monitoring and management of software as a service in micro cloud environments. In *US 2019/10623276* (04 2020)
3. CALO, S. B., FREIMUTH, D. M., KANDLUR, D. D., LE, T. F., NAHUM, E., ORTIZ, J. J., TOUMA, M., AND VERMA, D. C. Automatic protocol discovery using text analytics. In *US 2019/16127615* (03 2020)
4. DESAI, N. V., KO, B. J., ORTIZ, J. J., RALLAPALLI, S., SALONIDIS, T., URGAONKAR, R., AND VERMA, D. C. System, method, and recording medium for data mining between private and public domains. In *US 2019/10394912* (08 2018)
5. CALO, S. B., MEL, G. R. D., GRUENEBERG, K. W., ORTIZ, J. J., WANG, X., AND III, D. A. W. Adaptive query targeting in a dynamic distributed environment. In *US 2019/10334025* (06 2018)

6. GRUENEBERG, K. W., KO, B. J., MAKAYA, C., MASII, M. N., ORTIZ, J. J., RALLAPALLI, S., SALONIDIS, T., URGAONKAR, R., VERMA, D. C., AND WANG, X. System, method, and recording medium for recipe and shopping list recommendation. In *US 2018/15224568* (02 2018)

7. CHAKRABORTY, S., ORTIZ, J. J., AND III, D. A. W. Query-target refinement in a distributed mobile system. In *US 2018/15202747* (01 2018)

8. KO, B. J., MAKAYA, C., ORTIZ, J. J., RALLAPALLI, S., VERMA, D. C., AND WANG, X. System, method, and recording medium for distributed probabilistic eidetic querying, rollback, and replay. In *US 2017/15186758* (12 2017)

9. GRUENEBERG, K. W., KO, B. J., MAKAYA, C., ORTIZ, J. J., RAILAPAILI, S., SALONIDIS, T., URGAONKAR, R., VERMA, D. C., AND WANG, X. Techniques for shopping recommendations based on social ties. In *US 2017/15074673* (09 2017)

10. CHAKRABORTY, S., GRUENEBERG, K., KO, B., MAKAYA, C., ORTIZ, J. J., RALLAPALLI, S., SALONIDIS, T., URGAONKAR, R., VERMA, D., AND WANG, X. Recommendations based on private data using a dynamically deployed pre-filter extending cloud computing to on-premises data. In *US 2017/0140426A1* (05 2017)

11. GRUENEBERG, K. W., KO, B. J., ORTIZ, J. J., SALONIDIS, T., URGAONKAR, R., VERMA, D. C., AND WANG, X. Extending cloud computing to on-premises data. In *US 2016/9342357* (05 2016)

12. GRUENEBERG, K. W., KO, B. J., ORTIZ, J. J., SALONIDIS, T., URGAONKAR, R., VERMA, D. C., AND WANG, X. Matching untagged data sources to untagged data analysis applications. In *US 2015/743130* (06 2015)

(h) Service

1. General Chair Buildsys 2022
2. Chair for Workshop on Cyber-Physical-Human Systems (CPHS) at CPS Week 2022
3. NeurIPS 2021 Workshop on The Symbiosis of Deep Learning and Differential Equations (DLDE), Organizer
4. AAAI-22 Undergraduate Consortium – Mentorship Coordinator Chair
5. TPC The First International Workshop on Cyber-Physical-Human System Design and Implementation at CPS Week 2021
6. EWSN 2021 Poster Co-Chair
7. Buildsys 2020 TPC Co-Chair, Steering Committee 2021, TPC 2021, Poster Chair 2021
8. AAAI-21 Undergraduate Consortium – Faculty Mentor
9. AAAI-20 Undergraduate Consortium – Faculty Mentor
10. LatinX in AI Mentor 2020
11. Co-Chair N2Women at Sensys 2019
12. Co-Chair Workshop on Combining Physical and Data-Driven Knowledge in Ubiquitous Computing at UBICOMP 2019
13. CPS-IoT Week 2019 Publication Chair (HSCC, ICCPS, IPSN, RTAS, IoTDI)
14. Richard Tapia Celebration in Diversity in Computing Poster Co-Chair 2018, Chair 2019
15. TPC Member Latinos in Artificial Intelligence Workshop NeurIPS 2018, ICML 2019
16. TPC Member Energy Data and Analytics Workshop at e-Energy 2018, 2019
17. TPC Member Sensys 2016 (Demo Session), Organizing Committee 2020
18. TPC Member IPSN 2014, 2017, 2019, 2020, 2021
19. TPC Member Buildsys 2016, 2017, 2018, 2019, 2020
20. Organizing Committee Sensys/Buildsys 2016, 2017, 2020
21. The 26th International Conference on Computer Communication and Networks (ICCCN 2017)
22. TPC Member 1st Workshop on Smart and Connected Indoor Environments (SCIE) in conjunction with IEEE International Conference on Sensing, Communication and Networking (SECON 2017)
23. TPC Member 1st Workshop on Internet of Thing Physical Data Analytics (IoTPDA) in conjunction with IEEE International Conference on Sensing, Communication and Networking (SECON 2016)
24. TPC Member DCOSS 2016 (The annual International Conference on Distributed Computing in Sensor Systems)
25. TPC Member ALGOSENSORS 2017
26. TPC IEEE workshop on Big Data Management for the Internet of Things (BIOT2017)
27. Member of CSGSA Faculty Candidate Evaluation Committee, UCB Computer Science Div. (2008, 2009, 2010)
28. President of CSGSA Faculty Candidate Evaluation Committee, UCB Computer Science Div. (2011)
29. Chair, Internet of Things Professional Interest Community (IoT-PIC) IBM Research at Watson Labs.