

List of WINLAB Faculty and Students Peer Reviewed Publications

(2016 to 2021)

Author	Co-Authors	Paper/Talk	Title	Where/When
Abass, A.	Mandayam, N.B. and Gajic, Z.	Conference Paper	CYBEX Information Sharing Game with Objective and Subjective Players	Proceedings of the 55 th Annual Conference on Information Sciences and Systems (CISS 2021), held virtually from John Hopkins University, March 2021, pp. 1-5.
Abass, A.	Mandayam, N.B. and Gajic, Z.	Journal Paper	Evolutionary Random Access Game with Objective and Subjective Players	IEEE Access, Vol. 9, February 2021, pp. 35562-35572.
Abass, A.	Kumbhkar, R., Mandayam, N.B., and Gajic, Z.	Journal Paper	WiFi/LTE-U Coexistence: An Evolutionary Game Approach	IEEE Transactions on Cognitive Communications and Networking, Vol. 5, No. 1, pp. 44-58, March 2019.
Abass, A.	Xiao, L., Mandayam, N.B., Gajic, Z.	Journal Paper	Evolutionary Game Theoretic Analysis of Advanced Persistent Threats Against Cloud Storage	IEEE Access, Vol. 5, pp. 8482-8491, June 2017.
Abass, A.	Mandayam, N.B. and Gajic, Z.	Conference Paper	An Evolutionary Game Model for Threat Revocation in Ephemeral Networks	Proceedings of the 51 st Annual Conference on Information Sciences and Systems (CISS), John Hopkins University, Baltimore, MD, March 2017, pp. 1-5.
Abass, A.	Hajimirsadeghi, M., Mandayam, N.B. and Gajic, Z.	Conference Paper	Evolutionary Game Theoretic Analysis of Distributed Denial of Service Attacks in a Wireless Network	Proceedings of the 2016 Annual Conference on Information Science and Systems (CISS), Princeton, NJ, March 2016, pp. 36-41.
Agarwal, R.R.	Lin, C.C., Chen, K.T. and Singh, V.K.	Journal Paper	Predicting Financial Trouble using Call Data – on Social Capital, Phone Logs and Financial Trouble	PLoS One, Vol. 13, No.2, 2018.
Ahmed, T.	Raja, H. and Bajwa, W.U.	Journal Paper	Tensor Regression Using Low-Rank and Sparse Tucker Decompositions	SIAM Journal on Mathematics of Data Science, Vol. 2, No. 4, pp. 944-966, October 2020.
Ahmed, T.	Bajwa, W.U.	Journal Paper	ExSIS: Extended Sure Independence Screening for Ultrahigh-Dimensional Linear Models	EURASIP Journal of Signal Processing, Vol. 159, pp.33-48, June 2019. CoRR abs/1708.06077 (2017)
Ahmed, T.	Bajwa, W.U.	Conference Paper	Correlation-Based Ultrahigh-Dimensional Variable Screening	Proceedings of the 7 th IEEE International Workshop on Computational Advances in Multi-Sensor Adaptive Processing (CAMSAP 2017), Curaçao, Dutch Antilles, December 2017, pp. 1-5.
Aktas, M.F.	Soljanin, E.	Journal Paper	Straggler Mitigation at Scale	IEEE/ACM Transactions on Networking, Vol. 27, No. 6, pp. 2266-2279, December 2019. CoRR abs/1906.10664 (2019)
Aktas, M.F.	Behrouzi-Far, A. and Soljanin, E.	Conference Paper	Load Balancing Performance in Distributed Storage with Regular Balanced Redundancy	Proceedings of the 16 th International Symposium "Problems of Redundancy in Information and Control Systems (REDUNDANCY 2019), Moscow, Russia, October 2019. CoRR abs/1910.05791 (2019)

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Author	Co-Authors	Paper/Talk	Title	Where/When
Aktas, M.F.	Soljanin, E.	Conference Paper	Anonymity Mixes as (Partial) Assembly Queues: Modeling and Analysis	Proceedings of the IEEE Information Theory Workshop (ITW 2019), Visby, Sweden, August 2019, pp. 1-5. CoRR abs/1907.11603 (2019)
Aktas, M.F.	Soljanin, E.	Conference Paper	Heuristics for Analyzing Download Time in MDS Coded Storage Systems	Proceedings of the 2018 IEEE International Symposium on Information Theory (ISIT 2018), Vail, CO, June 2018, pp. 1929-1933.
Aktas, M.F.	Peng, P. and Soljanin, E.	Journal Paper	Straggler Mitigation by Delayed Relaunch of Tasks	SIGMETRICS Performance Evaluation Review, Vol. 45, No. 3, pp. 224-231. March 2018. CoRR abs/1710.00414 (2017)
Aktas, M.F.	Peng, P. and Soljanin, E.	Journal Paper	Effective Straggler Mitigation: Which Clones Should Attack and When?	SIGMETRICS Performance Evaluation Review, Vol. 45, No. 2, pp.12-14, October 2017. CoRR abs/1710.00748 (2017)
Aktas, M.F.	Anderson, S.E., Johnston, A., Joshi, G., Kadhe, S., Matthews, G.L., Mayer, C. and Soljanin, E.	Conference Paper	On the Service Capacity Region of Accessing Erasure Coded Content	Proceedings of the 55 th Annual Allerton Conference on Communication, Control and Computing (Allerton 2017), Monticello, IL, October 2017, pp. 17-24. CoRR abs/1710.03376 (2017)
Aktas, M.F.	Najm, E. and Soljanin, E.	Journal Paper	Simplex Queues for Hot-Data Download	SIGMETRICS '17 Abstracts: Proceedings of the 2017 ACM SIGMETRICS / International Conference on Measurement and Modeling of Computer Systems, pp. 35-36, June 2017. CoRR abs/1804.06489 (2018)
Al-Abbasi, A.	Hamila, R., Bajwa, W.U. and Al-Dhahir, N.	Journal Paper	Design and Analysis of Sparsifying Dictionaries for FIR MIMO Equalizers	IEEE Transactions of Wireless Communications, Vol. 16, No. 4, pp. 2576-2586, April 2017. CoRR abs/1702.01425 (2017)
Al-Abbasi, A.	Hamila, R., Bajwa, W.U. and Al-Dhahir, N.	Conference Paper	Sparsifying Dictionary Analysis for FIR MIMO Channel-Shortening Equalizers	Proceedings of the IEEE 17th International Workshop on Signal Processing Advances in Wireless Communications (SPAWC 2016), Edinburgh, UK, July 2016, pp. 1-6.
Al-Abbasi, A.	Hamila, R., Bajwa, W.U. and Al-Dhahir, N.	Conference Paper	Design and Analysis Framework for Sparse FIR Channel Shortening	Proceedings of the IEEE International Communications Conference (ICC 2016), Kuala Lumpur, Malaysia, May 2016, pp. 1-7. CoRR abs/1603.00160 (2016)
Alasadi, J.	Ramanathan, A., Atrey, P. and Singh, V.K.	Conference Paper	A Fairness-Aware Fusion Framework for Multimodal Cyberbullying Detection	Proceedings of the 6 th IEEE International Conference on Multimedia Big Data (BigMM 2020), New Delhi, India, September 2020, pp. 166-173.

List of WINLAB Faculty and Students Peer Reviewed Publications (...continued)

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Author	Co-Authors	Paper/Talk	Title	Where/When
Alaziz, M.	Jia, Z., Howard, R.E., Lin, X. and Zhang, Y.	Journal Paper	In-Bed Body Motion Detection and Classification System	ACM Transactions on Sensor Networks, Vol. 16, No. 2, Article No. 13, pp. 1-26, April 2020.
Alaziz, M.	Jia, Z., Howard, R.E., Lin, X. and Zhang, Y.	Conference Paper	Motion Tree: A Tree-Based In-Bed Body Motion Classification System Using Load-Cells	Proceedings of the 2 nd IEEE/ACM International Conference on Connected Health: Applications, Systems and Engineering Technologies (IEEE/ACM CHASE 2017), Philadelphia, PA, July 2017, pp. 127-136.
Alaziz, M.	Jia, Z., Liu, J., Howard, R.E., Chen, Y. and Zhang, Y.	Conference Paper	Motion Scale: A Body Motion Monitoring System using Bed-Mounted Wireless Load Cells	Proceedings of the 2016 IEEE First International Conference on Connected Health: Applications, Systems and Engineering Technologies (CHASE 2016), Washington, DC, June 2016, pp. 183-192.
Aldeer, M.	Yu, J., Chowdhury, T., Florentine, J., Kolodziejski, J., Howard, R.E., Martin, R.P. and Ortiz, J.	Conference Paper	A Smart Agent Guided Contactless Data Collection System Amid a Pandemic	Proceedings of the 19 th ACM International Conference on Mobile Systems, Applications and Services (MobiSys 2021), held virtually, Jun/Jul 2021, pp. 485-486.
Aldeer, M.	Howard, R.E., Martin, R.P. and Ortiz, J.	Journal Article	Unobtrusive Patient Identification using Smart Pill-Bottle Systems	Internet of Things, Vol. 14: Article 100389, June 2021.
Aldeer, M.	Howard, R.E., Martin, R.P. and Ortiz, J.	Conference Poster Abstract	User Identification Across Multiple Smart Pill Bottle Systems	Proceedings of the International Conference on Information Processing in Sensor Networks (IPSN 2021), held virtually from Nashville, TN, May 2021, pp. 400-401.
Aldeer, M.	Florentine, J., Yu, J., Ryan, L., Qi, Z., Kolodziejski, J., Haberland, M., Howard, R.E. and Martin, R. P.	Poster Abstract	Investigating the Biological Impacts of Radio Transmissions	Proceedings of the 18 th Conference on Embedded Networked Sensor Systems (SenSys 2020), held virtually, November 2020, pp. 695-696.
Aldeer, M.	Alaziz, M., Ortiz, J., Howard, R.E., Martin, R.P.	Conference Paper	A Sensing-Based Framework for Medication Compliance Monitoring	Proceedings of the 1st ACM International Workshop on Device-Free Human Sensing (DFHS) held in conjunction with the 6 th ACM International Conference on Systems for Energy-Efficient Buildings, Cities and Transportation (BuildSys 2019), New York, NY, November 2019, pp. 52-56.
Aldeer, M.	Ortiz, J., Howard, R.E., and Martin, R. P.	Conference Paper	PatientSense: Patient Discrimination from In-Bottle Sensors Data	Proceedings of the 16 th EAI International Conference on Mobile and Ubiquitous Systems: Computing, Networking and Services (MobiQuitous 2019), Houston, TX, November 2019, pp. 143-152.
Aldeer, M.	Florentine, J., Kolodziejski, J., Ortiz, J. Howard, R.E. and Martin, R.P.	Poster Abstract	Patient Identification Using a Smart Pill-Bottle	Proceedings of the 17 th ACM Conference on Embedded Networked Sensor Systems (SenSys 2019), New York, NY, November 2019, pp. 424-425.
Aldeer, M.	Al Hilli, A., Howard, R.E. and Martin, R.	Conference Paper	Lifetime Optimization of Transmit-Only Sensor Networks with Adaptive Mobile Cluster Heads	Proceedings of the Wireless of the Students, by the Students, and for the Students (S3) Workshop held in conjunction with the 25 th Annual International Conference on Mobile Computing and Networks (MobiCom 2019), Los Cabos, Mexico, October 2019, pp. 3-5.
Aldeer, M.	Martin, R.P. and Howard, R.E.	Conference Paper	PillSense: Designing a Medication Adherence Monitoring System Using Pill Bottle-Mounted Wireless Sensors	Proceedings of the IEEE Conference on Communications Workshops (ICC), Kansas City, KS, May 2018, pp. 1-6.

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Author	Co-Authors	Paper/Talk	Title	Where/When
Aldeer, M.	Javanmard, M. and Martin, R.P.	Journal Paper	A Review of Medication Adherence Monitoring Technologies	Applied System Innovation, Vol. 1, Article No. 14, DOI: doi: 19.3390/asi1020014
Aldeer, M.N.M.	Martin, R. P.	Conference Paper	Medication Adherence Monitoring using Modern Technology	Proceedings of the 8 th IEEE Annual Ubiquitous Computing, Electronics & Mobile Communication Conference (UEMCON 2017), New York, NY, October 2017, pp. 491-497.
Aldeer, M.N.M.	Martin, R. P. and Howard, R.E.	Conference Paper	Tackling the Fidelity-Energy Trade-Off in Wireless Body Sensor Networks	Proceedings of the 2 nd IEEE/ACM International Conference on Connected Health: Applications, Systems and Engineering Technologies (IEEE/ACM CHASE 2017), Philadelphia, PA, July 2017, pp. 7-12.
Aldeer, M.N.M.	Howard, R.E., Martin, R.P., Alkadhimi, K. and Munirah Kamarudin, L.	Conference Paper	Towards Harnessing Wireless Sensor Networks for Supporting the Development Process in Iraq	Proceedings of the 2016 IEEE Conference on Open Systems (ICOS), Langkawi, Malaysia, October 2016, pp.81-86.
Aldeer, M.N.M.	Howard, R.E. and Al-Hilli, A.	Conference Paper	Minimizing Energy Consumption in Transmit-Only Sensor Networks Via Optimal Placement of the Cluster Heads	Proceedings of the 8 th Wireless of the Students, by the Students and for the Students Workshop (in conjunction with the 22 nd Annual Conference on Mobile Computing and Networking (MobiCom 2016), New York, NY, October 2016, pp. 36-38.
Anand, S.A.	Wang, C., Liu, J., Saxena, N. and Chen, Y.	Conference Paper	Spearphone: A Lightweight Speech Privacy Exploit via Accelerometer-sensed Reverberations from Smartphone Loudspeakers	Proceedings of the 14 th ACM Conference on Security and Privacy in Wireless and Mobile Networks (WiSEC 2021), held virtually and hosted by NYU Abu Dhabi, UAE, June/July 2021, pp.288-299.
Anand, S.A.	Liu, J., Wang, C., Shirvanian, M., Saxena, N. and Chen, Y.	Conference Paper	EchoVib: Exploring Voice Authentication via Unique Non-Linear Vibrations of Short Replayed Speech	Proceedings of 16 th ACM ASIA Conference on Computer and Communications Security (AsiaCCS 2021), held virtually from Hong Kong, June 2021, pp. 67-81.
Anderson, S.E.	Johnston, A., Joshi, G., Matthews, G.L., Mayer, C. and Soljanin, E.	Conference Paper	Service Rate Region of Content Access from Erasure Coded Storage	Proceedings of the IEEE Information Theory Workshop (ITW 2018), Guangzhou, China, November 2018, pp. 1-5. CoRR abs/0901.02399 (2019)
Arafa, A.	Yates, R.D. and Poor, H.V.	Conference Paper	Timely Cloud Computing: Preemption and Waiting	Proceedings of the 57 th Annual Allerton Conference on Communication, Control and Computing (Allerton 2019), Monticello, IL, September 2019, pp. 528-535. CoRR/abs 1907.05408 (2019)
Ashok, A.	Xu, C., Vu, T., Gruteser, M., Howard, R.E., Zhang, Y., Mandayam, N.B., Yuan, W. and Dana, K.J.	Journal Paper	What Am I Looking At? Low-Power Radio-Optical Beacons for In-View Recognition on Smart-Glass	IEEE Transactions on Mobile Computing, Vol. 15, No. 12, pp. 3185-3199, December 2016.
Bai, Y.	Liu, J., Lu, L., Yang, Y., Chen, Y. and Yu, J.	Conference Paper	BatComm: Enabling Inaudible Acoustic Communication With High-Throughput for Mobile Devices	18th ACM Conference on Embedded Networked Sensor Systems (SenSys 2020), Yokohama, Japan, November 2020, pp. 205-217.
Bai, Y.	Lu, L., Cheng, J., Liu, J., Chen, Y. and Yu, J.	Journal Paper	Acoustic-Based Sensing and Applications: A Survey	Elsevier Computer Networks, Volume 181, 107447, November 2020.

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Author	Co-Authors	Paper/Talk	Title	Where/When
Bai, Y.	Yang, X., Liu, C., Wain, J., Wang, R., Cheng, J., Wang, C., Liu, J. and Chen, Y.	Conference Demo	Monitoring Movement Dynamics of Robot Cars and Drones Using Smartphone's Built-In Sensors	Proceedings of the IEEE International Symposium on Dynamic Spectrum Access Networks (DySPAN 2019), Newark, NJ, November 2019, pp. 1-2.
Bai, Y.	Liu, J., Chen, Y., Lu, L. and Yu, J.	Conference Poster	Inaudible High-Throughput Communication Through Acoustic Signals	Proceedings of the 25 th Annual International Conference on Mobile Computing and Networking (MobiCom 2019), Los Cabos, Mexico, October 2019, pp. 79:1-79:3.
Bajwa, W.U.	Cevher, V., Papailiopoulos, D.S. and Scaglione, A.	Journal Paper	Machine Learning From Distributed, Streaming Data [From the Guest Editors]	IEEE Signal Processing Magazine, Vol. 37, No. 3, pp. 11-13, May 2020.
Bajwa, W.U.		Conference Paper	Flipping Large Classes on a Shoestring Budget	Proceedings of the 2018 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2018), Calgary, Alberta, Canada, April 2018, pp. 7006-7010.
Bajwa, W.U.		Journal Paper	On “Flipping” a Large Signal Processing Class [SP Education]	IEEE Signal Processing Magazine, Vol. 34, No. 4, pp. 158-170, July 2017.
Baker, B.T.	Abrol, A., Silva, R.F., Damaraju, E., Sarwate, A.D., Calhoun, V.D. and Plis, S.M.	Journal Paper	Decentralized Temporal Independent Component Analysis: Leveraging fMRI Data in Collaborative Settings	ScienceDirect NeuroImage, Vol. 186, pp. 557-569, February 2019.
Bati, G.F.	Singh, V.K.	Conference Paper	“Trust Us”: Mobile Phone Use Patterns Can Predict Individual Trust Propensity	Proceedings of the 2018 Conference on Human Factors in Computing Systems (CHI 2018), Montreal, Canada, April 2016, pg. 30.
Bati, G.F.	Singh, V.K.	Journal Paper	Altruistics: Inferring Altruism Propensity Based on Mobile Phone Use Patterns	IEEE Transactions on Big Data, Early Access, March 2018.
Behrouzi-Far, A.	Soljanin, E. and Yates, R.D.	Conference Paper	Data Freshness in Leader-Based Replicated Storage	Proceedings of the 2020 IEEE International Symposium on Information Theory (ISIT 2020), held virtually in Los Angeles, CA, June 2020, pp. 1806-1811. CoRR abs/2005.07798 (2020)
Behrouzi-Far, A.	Soljanin, E.	Conference Paper	Data Replication for Reducing Computing Time in Distributed Systems with Stragglers	Proceedings of the 2019 IEEE International Conference on Big Data (BigData 2019), Los Angeles, CA, December 2019, pp. 5986-5988 CoRR abs/1912.03349 (2019)
Behrouzi-Far, A.	Soljanin, E.	Conference Paper	Scheduling in the Presence of Data Intensive Compute Jobs	Proceedings of the 2019 IEEE International Conference on Big Data (BigData 2019), Los Angeles, CA, December 2019, pp. 5989-5991. CoRR abs/1912.03348 (2019)
Behrouzi-Far, A.	Soljanin, E.	Conference Paper	Redundancy Scheduling in Systems with Bi-Modal Job Service Time Distribution	Proceedings of the 57 th Annual Allerton Conference on Communication, Control and Computing (Allerton 2019), Monticello, IL, September 2019, pp. 9-16. CoRR abs/1908.02415 (2019)

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Behrouzi-Far, A.	Soljanin, E.	Conference Paper	On the Effect of Task-to-Worker Assignment in Distributed Computing Systems with Stragglers	Proceedings of the 56 th Annual Allerton Conference on Communication, Control and Computing (Allerton 2018), Monticello, IL, October 2018, pp. 560-566. CoRR abs/1808.02838 (2018)
Beresford, A.R.	Mascolo, C. and Gruteser, M.	Journal Paper	The Specter of Malicious Computing: Securing the Internet of Things	IEEE Pervasive Computing, Vol. 17, No. 3, pp. 10-11, July-September 2018.
Bijral, A.S.	Sarwate, A.D. and Srebro, N.	Journal Paper	Data-Dependent Convergence for Consensus Stochastic Optimization	IEEE Transactions on Automatic Control, Vol. 62, No. 9, pp. 4483-4498, September 2017.
Bijral, A.S.	Sarwate, A.D. and Srebro, N.	Conference Paper	Data-Dependent Bounds on Network Gradient Descent	Proceedings of the 54 th Annual Allerton Conference on Communication, Control and Computing (ALLERTON 2016), Monticello, IL, September 2016, pp. 869-874.
Bittner, D.M.	Brito, A.E., Ghassemi, M., Rane, S., Sarwate, A.D. and Wright, R.N.	Journal Paper	Understanding Privacy-Utility Tradeoffs Using Differentially Private Online Active Learning	Journal of Privacy and Confidentiality, Vol. 10, No. 2, June 2020.
Bittner, D.M.	Sarwate, A.D. and Wright, R.N.	Conference Paper	Using Noisy Binary Search for Differentially Private Anomaly Detection	Proceedings of the 2 nd International Symposium on Cyber Security Cryptography and Machine Learning (CSCML 2018), Beer Sheva, Israel, June 2018, pp. 20-37.
Bittner, D.M.	Sarwate, A.D. and Wright, R.N.	Workshop Abstract	Differentially Private Noisy Search with Applications to Anomaly Detection	Proceedings of the 10 th ACM Workshop on Artificial Intelligence and Security (AISec 2017), Dallas, TX, November 2017, pg. 53.
Bonawitz, K.	Salehi, F., Konecny, J., McMahan, B. and Gruteser, M.	Conference Paper	Federated Learning with Autotuned Communication-Efficient Secure Aggregation	Proceedings of the 53 rd Asilomar Conference on Signals, Systems and Computers (ACSCC 2019), Pacific Grove, CA, November 2019, pp. 1222-1226. CoRR abs/1912.00131 (2019)
Bonde, A.	Pan, S., Jia, Z., Zhang, Y., Noh, H-Y. and Zhang, P.	Conference Paper	VVRRM: Vehicular Vibration-Based Heart RR-Interval Monitoring System	Proceedings of the 19 th International Workshop on Mobile Computing Systems and Applications (ACM HotMobile 2018), Tempe, AZ, February 2018, pp. 37-42.
Bonna, K.	Spasojevic, P.	Conference Paper	Sensitivity of L-1 Regularization on Subspace-Based SIMO Blind Channel Identification in Sample Channel Measurements	Proceedings of the 2016 IEEE Global Conference on Signal and Information Processing (GlobalSIP 2016), Washington, DC, December 2016, pp. 1122-1126.
Bonna, K.	Spasojevic, P. and Kanterakis, E.	Conference Paper	Subspace-Based SIMO Blind Channel Identification: Asymptotic Performance Comparison	Proceedings of the IEEE 2016 Military Communications Conference (MILCOM 2016) Baltimore, MD, November 2016, pp. 460-465.
Bossart, M.	Byrne, E. and Soljanin, E.	Journal Paper	Coding Theory in the Time of Big Data (Dagstuhl Seminar 16321)	Dagstuhl Reports, Vol. 6, No. 8, pp. 1-20, 2016.

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Author	Co-Authors	Paper/Talk	Title	Where/When
Bronzino, F.	Maheshwari, S., Seskar, I. and Raychaudhuri, D.	Journal Paper	NOVN: A Named-Object Based Virtual Network Architecture to Support Advanced Mobile Edge Computing Services	Pervasive Mobile Computing, Vol. 69: 101261, pp. 1-18, November 2021.
Bronzino, F.	Maheshwari, S., Seskar, I. and Raychaudhuri, D.	Conference Paper	Application-Aware End-to-End Virtualization Using a Named-Object Based Network Architecture	Proceedings of the 33 rd Edition of International Teletraffic Congress (ITC'33) held virtually from Avignon, France, August/September 2021, pp. 1-9.
Bronzino, F.	Maheshwari, S., Seskar, I., and Raychaudhuri, D.	Conference Paper	NOVN: Named-Object Based Virtual Network Architecture	Proceedings of the 20 th International Conference on Distributed Computing and Networking (ICDCN 2019), Bangalore, India, January 2019, pp. 90-99.
Bronzino, F.	Mukherjee, S. and Raychaudhuri, D.	Conference Paper	The Named-Object Abstraction for Realizing Advanced Mobility Services in the Future Internet	Proceedings of the Workshop on Mobility in the Evolving Internet Architecture (MobiArch), Los Angeles, CA, August 2017, pp. 37-42.
Bronzino, F.	Raychaudhuri, D.	Conference Paper	Abstractions and Solutions to Support Smart-Objects in the Future Internet	Proceedings of the 2 nd Workshop on Experiences with Design and Implementation of Smart Objects, held in conjunction with ACM MobiCom, New York, NY, October 2016, pp. 41-46.
Bronzino, F.	Raychaudhuri, D. and Seskar, I.	Conference Paper	Demonstrating Context-Aware Services in the MobilityFirst Future Internet Architecture	Proceedings of the 1 st International Conference in Networking Science & Practice (ITC 2016), Wurzburg, Germany, September 2016, pp. 201-204.
Bronzino, F.	Stojadinovic, D., Westphal, C. and Raychaudhuri, D.	Conference Paper	Exploiting Network Awareness to Enhance DASH Over Wireless	Proceedings of the 13 th Annual IEEE Consumer Communications and Networking Conference (CCNC 2016), January 2016, pp. 1092-1100.
Budisin, S.Z.	Spasojevic, P.	Journal Paper	Paraunitary-Based Boolean Generator for QAM Complementary Sequences of Length 2^k	IEEE Transactions on Information Theory, Vol. 64, No. 8, pp. 5838-5956, August 2018.
Budisin, S.Z.	Spasojevic P.	Conference Paper	A Multiplicative Boolean Generator for QAM and Other Complex Complementary Sequences	Proceedings of the 2016 Information Theory and Applications Workshop, LaJolla, CA, February 2016.
Budkuley, A.J.	Dey, B.K., Jaggi, S., Langberg, M. Sarwate, A.D. and Wang, C.	Conference Paper	Symmetrizability for Myopic AVCs	Proceedings of the 2020 IEEE International Symposium on Information Theory (ISIT 2020), Virtual Event, June 2020, pp. 2103-2107.
Burns, A.	Bajwa, W.U.	Conference Paper	Multispectral Imaging for Improved Liquid Classification in Security Sensor Systems	Proceedings of the SPIE Conference on Algorithms and Technologies for Multispectral, Hyperspectral and Ultraspectral Imagery XXIV, Orlando, FL, April 2018, pp. 1-7.
Cai, J.	Liu, A., Mi, T., Garg, S., Trappe, W., McKeown, M.J. and Wang, Z. J.	Journal Paper	Dynamic Graph Theoretical Analysis of Functional Connectivity in Parkinson's Disease: The Importance of Fiedler Value	IEEE Journal of Biomedical and Health Informatics, Vol. 23, No. 4, pp. 1720-1729, July 2019.
Camelo, M.	Mennes, R., Shahid, A., Struye, J., Donato, C., Jabandzic, I., Giannoulis, S., Mahfoudhi, F., Maddala, P., Seskar, I., Moerman, I. and Latré, S.	Journal Paper	An AI-Based Incumbent Protection System for Collaborative Intelligent Radio Networks	IEEE Wireless Communications, Vol. 27, No. 5, pp. 16-23, October 2020.
Cao, Y.	Wang, Z., Kong, L., Chen, G., Yu, J., Tang, S. and Chen, Y.	Conference Paper	Forward the Collision Decomposition in ZigBee	Proceedings of the 27 th IEEE International Conference on Network Protocols (ICNP 2019), Chicago, IL, October 2019, pp. 1-11.

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Cesar, P.	Singh, V., Jain, R., Sebe, N. and Oliver, N.	Journal Paper	New Signals in Multimedia Systems and Applications (Guest Editorial)	IEEE MultiMedia, Vol. 25, No. 1, pp. 12-13, Jan-March 2018.
Chen, J.	Xu, H., Zhang, Y. and Raychaudhuri, D.	Conference Paper	Graph-Pubsub: An Efficient Publish/Subscribe Architecture with Graph-Based Information Relationship	Proceedings of the 5 th IEEE Workshop on Hot Topics in Web Systems and Technologies (HotWeb 2017), San Jose, CA, October 2017, pp. 12:1-12:6.
Chen, J.	Li, S., Zhang, Y. and Raychaudhuri, D.	Demo Abstract	Motion-Triggered Surveillance Camera using MF-IoT: Demo Abstract	Proceedings of the International Conference on Internet-of-Things Design and Implementation (IoTDI 2017), Pittsburgh, PA, April 2017, pp. 277-278.
Chen, J.	Li, S., Yu, H., Zhang, Y., Raychaudhuri, D., Ravindran, R., Gao, H., Dong, L., Wang, G. and Liu, H.	Journal Paper	Exploiting ICN for Realizing Service-Oriented Communication in IoT	IEEE Communication Magazine, Vol. 54, No. 12, pp. 24-30, December 2016.
Chen, J.	Xu, H., Penugonde, S., Zhang, Y. and Raychaudhuri, D.	Conference Paper	Exploiting ICN for Efficient Content Dissemination in CDNs	Proceedings of the 4 th IEEE Workshop on Hot Topics in Web Systems and Technologies (HotWeb 2016), Washington, DC, October 2016, pp. 14-19.
Chen, T.	Maddala, P., Skrimponis, P., Kolodziejcki, J., Gu, X., Paidimarri, A., Rangan, S., Zussman, G. and Seskar, I.	Conference Paper	Programmable and Open-Access Millimeter-Wave Radios in the PAWR COSMOS Testbed	To appear Proceedings of the 15 th ACM Workshop on Wireless Network Testbeds, Experimental Evaluation and Characterization (WiNTECH @ MOBICOM 2021), New Orleans, LA, previously postponed and now scheduled for February 2022, pp. 1-8.
Chen, T.	Welles, J., Kohli, M., Dastjerdi, M.B., Kolodziejcki, J., Sherman, M., Seskar, I., Krishnaswamy, H. and Zussman, G.	Conference Paper	Experimentation with Full-Duplex Wireless in the COSMOS Testbed.	Proceedings of the 27 th IEEE International Conference on Network Protocols (ICNP 2019), Chicago, IL, October 2019, pp. 1-2.
Chen, X.	Pan, S. and Ortiz, J.	Conference Paper	CPD 2019: the 2 nd International Workshop on Combining Physical and Data Driven Knowledge in Ubiquitous Computing	Proceedings of the 2019 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp 2019) collocated with ISWC 2019, London, UK, September 2019, pp. 534-536.
Chen, Y.		Journal Paper	Women in Networks: Dr. Wenjing Lou, Virginia Tech, USA	IEEE Network, Vol. 35, No. 5, pp. 4-6, September/October 2021.
Chen, Y.		Journal Paper	Women in Networks: Dr. Carla Fabiana Chiasserini, Politecnico di Torino, Italy	IEEE Network, Vol. 35, No. 4, pp. 4-5, July/August 2021.
Chen, Z.	Yates, R.D. and Raychaudhuri, D.	Conference Paper	Dynamic Node-Disjoint Multipath Routing for Millimeter Wave Networks using Directional Antennas	Proceedings of the 2016 Annual Conference on Information Science and Systems (CISS 2016), Princeton, NJ, March 2016, pp. 430-435.
Cheng, B.	Lu, H., Rostami, A., Gruteser, M. and Kenney, J.B.	Conference Paper	Impact of 5.9 GHz Spectrum Sharing on DSRC Performance	Proceedings of the 2017 IEEE Vehicular Networking Conference (VNC 2017), Torino, Italy, November 2017, pp. 215-222.
Cheng, B.	Rostami, A. and Gruteser, M.	Conference Paper	Experience: Accurate Simulation of Dense Scenarios with Hundreds of Vehicular Transmitters	Proceedings of the ACM 22 nd Annual International Conference on Mobile Computing and Networking (MobiCom 2016), New York, NY, October 2016, pp. 271-279.

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Author	Co-Authors	Paper/Talk	Title	Where/When
Cheng, B.	Rostami, A., Gruteser, M., Lu, H., Kenney, J.B. and Bansal, G.	Conference Paper	Evolution of Vehicular Congestion Control Without Degrading Legacy Vehicle Performance	Proceedings of the Workshop of Smart Vehicles at the IEEE International Symposium on a World of Wireless Mobile and Multimedia Networks (WOWMOM 2016), Coimbra, Portugal, June 2016, pp. 1-6.
Chowdhury, T.	Bhatti, A., Mandel, I., Ehsan, T. Ju, W. and Ortiz, J.	Conference Paper	Towards Sensing Urban-Scale COVID-19 Policy Compliance in New York City	Proceedings of the 8 th ACM International Conference on Systems for Energy-Efficient Built Environments (BuildSys@SenSys 2021), November 2021, pp. 353-356.
Chowdhury, T.	Ding, Q., Mandel, I., Ju, W. and Ortiz, J.	Conference Paper	Tracking Urban Heartbeat and Policy Compliance through Vision and Language-based Sensing	Proceedings of the 8 th ACM International Conference on Systems for Energy-Efficient Built Environments (BuildSys@SenSys 2021), November 2021, pp. 302-306.
Chowdhury, T.	Aldder, M., Laghate, S., Yu, J., Ding, Q., Florentine, J. and Ortiz, J.	Conference Poster	Maestro – An Ambient Sensing Platform with Active Learning to Enable Smart Applications	Proceedings of the International Conference on Embedded Wireless Systems and Networks (EWSN 2021), held virtually from Delft, Netherlands, February 2021, pp. 163-164.
Clark, G.D.	Sarode, S. and Lindqvist, J.	Conference Paper Invited Paper	No Time at All: Opportunity Cost of Android Permissions	Proceedings of the HotWireless Workshop held in conjunction with the 22 nd Annual International Conference on Mobile Computing and Networking (MobiCom 2016), New York, NY, pp. 12-16.
Cokic, M.	Seskar, I.	Journal Paper	Software Defined Network Management for Dynamic Smart GRID traffic	Elsevier "Future Generation Computer Systems", Vol. 96, pp. 270-282, February 2019.
Coll-Perales, B.	Gozálvez, J. and Gruteser, M.	Journal Paper	Sub-6GHz Assisted MAC for Millimeter Wave Vehicular Communications	IEEE Communications Magazine, Vol. 57, No. 3, pp. 125-131, March 2019. CoRR abs/1809.02455 (2018)
Coll-Perales, B.	Gruteser, M. and Gozávez, J.	Conference Paper	Evaluation of IEEE 802.11ad for mmWave V2V Communications	Proceedings of the IEEE Wireless Communications and Networking Conference Workshops, Barcelona, Spain, April 2018, pp. 290-295. CoRR abs/1804.07233 (2018)
Dagefu, F.T.	Spasojevic, P., Verma, G. and Sadler, B.M.	Conference Paper	The Effect of Inter-User Delay and Channel Phase Response on MC-CDMA Using WBE Codes with Application to Lower VHF	Proceedings of the 51 st Asilomar Conference on Signals, Systems and Computers (ACSSC 2017), Pacific Grove, CA, October/November 2017, pp. 1737-1741.
Dey, B.K.	Jaggi, S., Langberg, M., Sarwate, A.D. and Wang, C.	Conference Paper	The Interplay of Causality and Myopia in Adversarial Channel Models	Proceedings of the 2019 IEEE International Symposium on Information Theory (ISIT 2019), Paris, France, July 2019, pp. 1002-1006.
Dey, B.K.	Jaggi, S., Langberg, M. and Sarwate, A.D.	Conference Paper	A Bit of Delay is Sufficient and Stochastic Encoding is Necessary to Overcome Online Adversarial Erasures	Proceedings of the 2016 IEEE International Symposium on Information Theory (ISIT 2016), Barcelona, Spain, July 2016, pp. 880-884.
Ding, H.	Han, J., Zhang, Y., Xiao, F., Xi, W., Wang, G. and Jiang, Z.	Conference Paper	Preventing Unauthorized Access on Passive Tags	Proceedings of the IEEE Conference on Computer Communications (INFOCOM 2018), Honolulu, HI, April 2018, pp. 1115-1123.

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Author	Co-Authors	Paper/Talk	Title	Where/When
Dlodlo, M.E.	Prasad, N.R., Seskar, I., Magedanz, T. and Mihovska, A.	Guest Editorial		Wireless Personal Communication, Vol. 118, No. 3, pp. 1821-1824, June 2021.
Dong, Y.	Liu, J., Chen, Y. and Lee, W.Y.	Conference Paper	SalsaAsst: Beat Counting System Empowered by Mobile Devices to Assist Salsa Dancers	Proceedings of the 14 th IEEE International Conference on Mobile Ad-Hoc and Sensor Systems (MASS 2017), Orlando, FL, October 2017, pp. 81-89.
Dumas, J.P.	Lodhi, M.A., Taki, B.A., Bajwa, W.U. and Pierce, M.C.	Journal Paper	Computational Endoscopy – A Framework for Improving Spatial Resolution in Fiber Bundle Imaging	Optics Letters, Vol. 44, No. 16, pp. 3968-3971, August 2019.
Dumas, J.P.	Lodhi, M.A., Taki, B.A., Bajwa, W.U. and Pierce, M.C.	Conference Paper	A Computational Imaging Approach for Resolution Enhancement in Fiber Bundle Endomicroscopy	Proceedings of the SPIE Conference on Endoscopic Microscopy XIV, San Francisco, CA, February 2019, pp. 1-7.
Dumas, J.P.	Lodhi, M.A., Bajwa, W.U. and Pierce, M.C.	Conference Paper	A Compressed Sensing Approach for Resolution Improvement in Fiber-Bundle Based Endomicroscopy	Proceedings of the SPIE Conference on Endoscopic Microscopy XIII, San Francisco, CA, January 2018, pp.1-7.
Dumas, J.P.	Lodhi, M.A., Bajwa, W.U. and Pierce, M.C.	Conference Paper	Evaluation of Computational Endomicroscopy Architectures for Minimally-Invasive Optical Biopsy	Proceedings of the SPIE Conference on Endoscopic Microscopy XII, San Francisco, CA, January 2017, pp.1-7.
Dumas, J.P.	Lodhi, M.A., Bajwa, W.U. and Pierce, M.C.	Journal Paper	From Modeling to Hardware: An Experimental Evaluation of Image Plane and Fourier Plane Coded Compressive Optical Imaging	Optics Express, Vol. 25, No. 23, pp. 29472-29491, November 2017.
Dumas, J.P.	Pierce, M.C., Lodhi, M.A. and Bajwa, W.U.	Conference Paper	Design and Characterization of a Computational Endomicroscopy Platform for Optical Biopsy	Proceedings of Biomedical Optics 2016 (Clinical and Translational Biophotonics), Fort Lauderdale, FL, April 2016, p. JM3A.37.
Dumas, J.P.	Lodhi, M.A., Bajwa, W.U. and Pierce, M.C.	Journal Paper	Computational Imaging with a Highly Parallel Image-Plane-Coded Architecture: Challenges and Solutions	Optics Express, Vol. 24, No. 6, pp. 6145-6155, March 2016.
Eldosouky, A.R.	Saad, W. and Mandayam, N.B.	Journal Paper	Resilient Critical Infrastructure: Bayesian Network Analysis and Contract-Based Optimization	Reliability Engineering Systems and Safety, Vol. 205, Article 107243, pp. 1-15, January 2021.
Elgenedy, M.	Mokhtar, M., Hamila, R., Bajwa, W.U., Ibrahim, A.S. and Al-Dhahir, N.	Journal Paper	Sparsity-Based Joint NBI and Impulse Noise Mitigation in Hybrid PLC-Wireless Transmissions	IEEE Access, Vol. 6, pp. 30280-30295, June 2018.
El Rahi, G.	Etesami, S. R., Saad, W., Mandayam, N.B. and Poor, H.V.	Journal Paper	Managing Price Uncertainty in Prosumer-Centric Energy Trading: A Prospect-Theoretic Stackelberg Game Approach	IEEE Transactions on Smart Grids, Vol. 10, No. 1, pp. 702-713, January 2019. CoRR abs/1709.06071 (2017)

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Author	Co-Authors	Paper/Talk	Title	Where/When
El Rahi, G.	Sanjab, A., Saad, W., Mandayam, N.B. and Poor, H.V.	Conference Paper	Prospect Theory for Enhanced Smart Grid Resilience using Distributed Energy Storage	Proceedings of the 54 th Annual Allerton Conference on Communication, Control and Computing, Monticello, CA, September 2016, pp.248-255. CoRR abs/1610/02103 (2016)
El Rahi, G.	Saad, W., Glass, A., Mandayam, N.B., Poor, H.V.	Conference Paper	Prospect Theory for Prosumer-Centric Energy Trading in the Smart Grid	Proceedings of the 7 th Conference on Innovative Smart Grid Technologies (ISGT 2016), Minneapolis, MN, September 2016, pp. 1-5.
Etesami, S. R.	Saad, W., Mandayam, N.B., and Poor, H.V.	Journal Paper	Smart Routing of Electric Vehicles for Load Balancing in Smart Grids	Elsevier “Automatica” Volume 120, October 2020, #109148. CoRR abs/1705.03805 (2017)
Etesami, S. R.	Saad, W., Mandayam, N.B., and Poor, H.V.	Journal Paper	Stochastic Games for the Smart Grid Energy Management with Prospect Prosumers	IEEE Transactions on Automatic Control, Vol. 63, No. 8, pp. 2327-2342, August 2018. CoRR abs/1610.02067 (2016)
Etesami, S.R.	Saad, W., Mandayam, N.B., and Poor, H.V.	Conference Paper	Smart Routing in Smart Grids	Proceedings of the 56 th IEEE Conference on Decision & Control (CDC 2017), Melbourne, Australia, December 2017, pp. 2599-2604.
Fan, X.	Shangguan, L., Rupavatharam, S., Zhang, Y., Xiong, J., Ma, Y. and Howard, R.E.	Conference Paper	HeadFi: Bringing Intelligence to all Headphones	Proceedings of the 27 th Annual International Conference on Mobile Computing and Networking (MobiCom 2021), New Orleans, LA January/February 2022, pp. 147-159.
Fan, X.	Shangguan, L., Howard, R.E., Zhang, Y., Peng, Y., Xiong, J., Ma, Y. and Li, X-Y.	Conference Paper	Towards Flexible Wireless Charging for Medical Implants Using Distributed Antenna System	Proceedings of the 26 th Annual International Conference on Mobile Computing and Networking (MobiCom 2020), held virtually from London, UK, September 2020, pp. 22:1-22:15. CoRR abs/2001.07644 (2020)
Fan, X.	Qi, Z., Jia, Z. and Zhang, Y.	Conference Paper	Enabling Concurrent IoT Transmission in Distributed C-RAN	Proceedings of the 16 th ACM Conference on Embedded Networked Sensor Systems (SenSys 2018), Shenzhen, China, November 2018, pp.390-391.
Fan, X.	Ding, H., Li, S., Sanzari, M., Zhang, Y., Trappe, W., Han, Z., and Howard, R. E.	Conference Paper	Energy-Ball: Wireless Power Transfer for Batteryless Internet of Things through Distributed Beamforming	Proceedings of ACM Interactive, Mobile, Wearable Ubiquitous Technologies (IMWUT/Ubicomp), Vol. 2, No. 2, Article 65, Singapore, October 2018, pp. 65:1-65:22.
Fan, X.	Zhang, Z., Trappe, W., Zhang, Y., Howard, R. E. and Han, Z.	Poster and Demo	A Practical Secret Communication System by Perturbing Focused Phases Among Distributed Transmitters	Proceedings of the 2018 IEEE INFOCOM Workshops, Honolulu, HI, April 2018, pp. 1-2.
Fan, X.	Zhang, Z., Trappe, W., Zhang, Y., Howard, R. E. and Han, Z.	Conference Paper	Secret-Focus: A Practical Physical Layer Secret Communication System by Perturbing Focused Phases in Distributed Beamforming	Proceedings of the IEEE Conference on Computer Communications (INFOCOM 2018), Honolulu, HI, April 2018, pp. 1781-1789.

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Author	Co-Authors	Paper/Talk	Title	Where/When
Feng, Y.	Yang, P., Zhang, Y., Li, X-Y., Chen, Z. and Huang, G.	Conference Demo	Demo: The RFID Can Hear Your Music Play	Proceedings of the 25 th Annual International Conference on Mobile Computing and Networking (MobiCom 2019), Los Cabos, Mexico, October 2019, pp. 62:1-62:3.
Ferdowski, A.	Saad, W. and Mandayam, N.B.	Journal Paper	Colonel Blotto Game for Sensor Protection in Interdependent Critical Infrastructure	IEEE Internet of Things Journal, Vol. 8, No. 4, pp. 2857-2874, February 2021.
Ferdowski, A.	Ali, S., Saad, W., and Mandayam, N.B.	Journal Papers	Cyber-Physical Security and Safety of Autonomous Connected Vehicles: Optimal Control Meets Multi-Armed Bandit Learning	IEEE Transactions on Communications, Vol. 67, No. 10, pp. 7228-7244, October 2019. CoRR abs/1812.05298 (2018)
Ferdowski, A.	Challita, U., Saad, W. and Mandayam, N.B.	Conference Paper	Robust Deep Reinforcement Learning for Security and Safety in Autonomous Vehicle Systems	Proceedings of the 21 st IEEE International Conference on Intelligent Transportation Systems (ITSC 2018), Maui, HI, November 2018, pp. 307-312. CoRR abs/1805.00983 (2018)
Ferdowski, A.	Saad, W., Maham, B. and Mandayam, N.B.	Conference Paper	A Colonel Blotto Game for Interdependence-Aware Cyber-Physical Systems Security in Smart Cities	Proceedings of SCOPE@CPS Week 2017, Pittsburgh, PA, April 2017, pp. 7-12. CoRR abs/1705.08338 (2017)
Fragouli, C.	Soljanin, E.	Journal Paper	(Secure) Linear Network Coding Multicast – A Theoretical Minimum and Some Open Problems	Journal on Designs, Codes and Cryptography, 25 th Anniversary Issue, Vol. 78, No. 1, pp. 269-310, January 2016.
Gang, A.	Raja, H. and Bajwa, W.U.	Conference Paper	Fast and Communication-Efficient Distributed PCA	Proceedings of the 44 th International Conference on Acoustics, Speech, and Signal Processing, (ICASSP 2019), Brighton, United Kingdom, May 2019, pp. 7450-7454.
Garnaev, A.	Petropulu, A.P., Trappe, W. and Poor, H.V.	Journal Paper	A Multi-Jammer Power Control Game	IEEE Communication Letters, Vol. 25, No. 9, pp. 3031-3035, September 2021.
Garnaev, A.	Petropulu, A.P. and Trappe, W.	Conference Paper	A Multiple Access Channel Game Using Latency Metric	Proceedings of the 2021 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2021), held virtually from Toronto, Canada, June 2021, pp. 5060-5064.
Garnaev, A.	Trappe, W., Mandayam, N.B., Poor, H.V.	Conference Paper	A Prospect Theoretic Extension of a Non-Zero-Sum Stochastic Eavesdropping and Jamming Game	Proceedings of the IEEE International Workshop on Information Forensic and Security (WIFS 2020), held virtually December 2020, pp. 1-6.
Garnaev, A.	Trappe, W. and Petropulu, A.P.	Journal Paper	A Dilemma in the Communication of a UAV with its Controller	International Game Theory Review (IGTR), Vol. 22, No. 2, December 2020, pp. 2040003:1-2040003:15.
Garnaev, A.	Petropulu, A.P., Trappe, W. and Poor, H.V.	Journal Paper	A Multi-Jammer Game with Latency as the User's Communication Utility	IEEE Communication Letters, Vol. 24, No. 9, pp. 1899-1903, September 2020.
Garnaev, A.	Petropulu, A.P., Trappe, W. and Poor, H.V.	Journal Paper	A Jamming Game with Rival-Type Uncertainty	IEEE Transactions on Wireless Communications, Vol. 19, No. 8, pp. 5359-5372, August 2020.
Garnaev, A.	Petropulu, A.P., Trappe, W. and Poor, H.V.	Conference Paper	A Switching Transmission Game with Latency as the User's Communication Utility	Proceedings of the 2020 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2020), Barcelona, Spain, May 2020, pp. 2912-2916.

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Author	Co-Authors	Paper/Talk	Title	Where/When
Garnaev, A.	Trappe, W.	Conference Paper	A Power Control Game Involving Jamming and Eavesdropping Defense	Proceedings of the 2019 IEEE International Workshop on Information Forensics and Security (WIFS 2019), Delft, Netherlands, December 2019, pp. 1-6.
Garnaev, A.	Petropulu, A.P., Trappe, W. and Poor, H.V.	Conference Paper	A Power Control Game with Uncertainty on the Type of the Jammer	Proceedings of the 7 th IEEE Global Conference on Signal and Information Processing (GlobalSIP 2019), Ottawa, Ontario, Canada, November 2019, pp. 1-5.
Garnaev, A.	Trappe, W.	Conference Paper	A Connectivity Game with Incomplete Information on Jammer's Location	Proceedings of the 19 th International Conference on Next Generation Teletraffic and Wired/Wireless Advanced Networking (NEW2AN 2019), St. Petersburg, Russia, August 2019, pp. 256-268.
Garnaev, A.	Zhong, J., Zhang, W., Yates, R.D. and Trappe, W.	Conference Paper	Proportional Fair Information Freshness under Jamming	Proceedings of the International Conference on Wired/Wireless Internet Communications (WWIC 2019), Bologna, Italy, June 2019, pp. 91-102.
Garnaev, A.	Trappe, W. and Petropulu, A.P.	Conference Paper	Combating Jamming in Wireless Networks: A Bayesian Game with Jammer's Channel Uncertainty	Proceedings of the 2019 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2019), Brighton, UK, May 2019, pp. 2447-2451.
Garnaev, A.	Zhang, W., Zhong, J. and Yates, R.D.	Conference Paper	Maintaining Information Freshness under Jamming	Proceedings of 2019 IEEE INFOCOM Workshops, Paris, France, April/May 2019, pp. 90-95.
Garnaev, A.	Trappe, W.	Conference Paper	An Eavesdropping and Jamming Dilemma when the Adversary Might Be Subjective	Proceedings of the 2019 IEEE Wireless Communications and Networking Conference (WCNC 2019), Marrakech, Morocco, April 2019, pp. 1-6.
Garnaev, A.	Trappe, W.	Conference Paper	Bandwidth Scanning When the Rivals are Subjective	Proceedings of the International Conference on Game Theory for Networks (GameNets 2019), Paris, France, April 2019, pp. 9-28.
Garnaev, A.	Trappe, W.	Conference Paper	A Prospect Theoretical Extension of a Communication Game Under Jamming	Proceedings of the 53 rd Annual Conference on Information Sciences and Systems (CISS 2019), Baltimore, MD, March 2019, pp. 1-6.
Garnaev, A.	Trappe, W. and Petropulu, A.P.	Conference Paper	To Communicate or to Scan: Prospect Theory Extension of a Stochastic Game	Proceedings of the 6 th IEEE Global Conference on Signal and Information Processing (GlobalSIP 2018), Anaheim, CA, November 2018, pp. 1301-1305.
Garnaev, A.	Trappe, W. and Petropulu, A.P.	Conference Paper	A Dual Radar and Communication System Facing Uncertainty about a Jammer's Capability	Proceedings of the 52 nd Asilomar Conference on Signals, Systems and Computers (ACSSC 2018), Pacific Grove, CA, October 2018, pp. 417-422.
Garnaev, A.	Trappe, W. and Petropulu, A.P.	Conference Paper	Maxmin Strategy for a Dual Radar and Communication OFDM Waveforms System Facing Uncertainty About the Background Noise	Proceedings of the 13 th EAI International Conference on Cognitive Radio Oriented Wireless Networks (CrownCom 2018), Ghent, Belgium, September 2018, pp. 154-164.
Garnaev, A.	Trappe, W. and Petropulu, A.P.	Conference Paper	A Prospect Theoretic Look at a Joint Radar and Communication System	Proceedings of the 18 th International Conference on Next Generation Wired/Wireless Advanced Networks and Systems (NEW2AN 2018), August 2018, pp. 483-495.
Garnaev, A.	Trappe, W. and Petropulu, A.P.	Conference Paper	Optimal Design of a Dual-Purpose Communication-Radar System in the Presence of a Jammer	Proceedings of the 19 th IEEE International Workshop on Signal Processing Advances in Wireless Communications (SPAWC 2018), Kalamata, Greece, June 2018, pp. 1-5.

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Author	Co-Authors	Paper/Talk	Title	Where/When
Garnaev, A.	Trappe, W. and Petropulu, A.P.	Conference Paper	An Anti-Jamming Strategy When it is Unknown Which Receivers Will Face with Smart Interference	Proceedings of the 16 th International Conference on Wired/Wireless Internet Communications (WWIC 2018), Boston, MA, June 2018, pp. 195-206.
Garnaev, A.	Trappe, W.	Journal Paper	A Bargaining Approach for Resolving the Tradeoff between Beneficial and Harmful Drug Response	Journal of Mathematical Biology, Vol. 77, pp. 1059-1072, May 2018.
Garnaev, A.	Trappe, W.	Conference Paper	The Rival Might be Not Smart: Revising a CDMA Jamming Game	Proceedings of the 2018 IEEE Wireless Communications and Networking Conference (WCNC 2018), Barcelona, Spain, April 2018, pp. 1-6.
Garnaev, A.	Trappe, W. and Petropulu, A.P.	Conference Paper	Stability of Fair Trade-Off Solution Between Radar and Communication Objectives on Hostile Interference	Proceedings of the 52 nd Annual Conference on Information Sciences and Systems (CISS 2018), Princeton, NJ, March 2018, pp. 1-6.
Garnaev, A.	Trappe, W.	Conference Paper	Stability of Communication Link Connectivity Against Hostile Interference	Proceedings of the 5 th IEEE Global Conference on Signal and Information Processing (GlobalSIP 2017), Montreal, Canada, November 2017, pp. 136-140.
Garnaev, Al.	Trappe, W.	Conference Paper	A Reinforcement Protection Game in the Internet of Things	Proceedings of the 3 rd International Conference on Interoperability (InterIoT 2017) and the 4 th International Conference on Safety and Security in IoT (SaSeloT 2017) Valencia, Spain, November 2017, pp. 85-95.
Garnaev, A.	Trappe, W.	Conference Paper	An OFDM-Based Dual Radar/Communication System Facing Uncertain Jamming Power	Proceedings of the 5 th IEEE Conference on Communications and Network Security (CNS 2017), Las Vegas, NV, October 2017, pp. 1-9.
Garnaev, A.	Trappe, W., Kumbhkar, R. and Mandayam, N.B.	Conference Paper	Impact of Uncertainty About a User to be Active on OFDM Transmission Strategies	Proceedings of the 12 th International Conference on Cognitive Radio Oriented Wireless Networks (CrownCom 2017), Lisbon, Portugal, September 2017, pp. 211-222.
Garnaev, A.	Trappe, W.	Conference Paper	Fair Scheduling of Two-Hop Transmission with Energy Harvesting	Proceedings of the 9 th EAI International Conference on Ad Hoc Networks (ADHOCNETS 2017), Niagara Falls, Canada, September 2017, pp. 189-198.
Garnaev, A.	Trappe, W.	Journal Paper	Bandwidth Scanning When Facing Interference Attacks Aimed at Reducing Spectrum Opportunities	IEEE Transactions on Information Forensics and Security, Vol. 12, No. 8, pp. 1916-1930, August 2017.
Garnaev, A.	Trappe, W. and Petropulu, A.P.	Conference Paper	Bargaining in a Dual Radar and Communication System Using Radar-Prioritized OFDM Waveforms	Proceedings of the 17 th International Conference on Next Generation Wired/Wireless Advanced Networks and Systems (NEW2AN 2017), August 2017, pp. 382-394.
Garnaev, A.	Trappe, W.	Journal Paper	Competitive Sharing of Spectrum: Reservation Obfuscation and Verification Strategies	MDPI Entropy, Vol. 19, No. 7, pp. 363, July 2017.
Garnaev, A.	Sagari, S. and Trappe, W.	Conference Paper	Bargaining Over Fair Channel Sharing Between Wi-Fi and LTE-U Networks	Proceedings of the 15 th International Conference on Wired/Wireless Internet Communications (WWIC 2017), St. Petersburg, Russia, June 2017, pp. 3-15.
Garnaev, A.	Trappe, W. and Petropulu, A.P.	Conference Paper	Equilibrium Strategies for an OFDM Network That Might be Under a Jamming Attack	Proceedings of the 51 st Annual Conference on Information Sciences and Systems (CISS 2017), Baltimore, MD, March 2017, pp. 1-6.
Garnaev, A.	Trappe, W., Hou, Y.T. and Lou, W.	Conference Paper	Spectrum Attacks Aimed at Minimizing Spectrum Opportunities	Proceedings of the 42 nd IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2017), New Orleans, LA, March 2017, pp. 2092-2096.

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Author	Co-Authors	Paper/Talk	Title	Where/When
Garnaev, A.	Trappe, W.	Journal Paper	Bargaining Over the Fair Trade-Off Between Secrecy and Throughput in OFDM Communications	IEEE Transactions on Information Forensics and Security, Vol. 12, No. 1, pp. 242-251, January 2017.
Garnaev, A.	Trappe, W. and Petropulu, A.P.	Conference Paper	Bargaining Over Fair Performing Dual Radar and Communication Task	Proceedings of the 50 th Asilomar Conference on Signals, Systems and Computers (ACSSC 2016), Pacific Grove, CA, November 2016, pp. 47-51.
Garnaev, A.	Trappe, W.	Conference Paper	A Secrecy and Security Dilemma in OFDM Communications	Proceedings of the 9 th International Workshop on Multiple Access Communications (MACOM 2016), Aalborg, Denmark, November 2016, pp. 111-125.
Garnaev, A.	Sagari, S. and Trappe, W.	Conference Paper	Fair Channel Sharing by Wi-Fi and LTE-U Networks with Equal Priority	Proceedings of the 11 th International Conference on Cognitive Radio Oriented Wireless Networks (CrownCom 2016), Grenoble, France, May/June 2016, pp. 91-103.
Garnaev, A.	Trappe, W.	Journal Paper	A Bandwidth Monitoring Strategy Under Uncertainty of the Adversary's Activity	IEEE Transactions on Information Forensics and Security, Vol. 11, No. 4, pp. 837-849, April 2016.
Garnaev, A.	Liu, Y. and Trappe, W.	Journal Paper	Anti-Jamming Strategy Versus a Low-Power Jamming Attack when Intelligence of Adversary's Attack Type is Unknown	IEEE Transactions on Signal and Information Processing over Networks, Vol. 2, No. 1, pp. 49-56, March 2016.
Gazula, H.	Kelly, R., Romero, J., Verner, E., Baker, B.T., Silva, R.F., Imtiaz, H., Saha, D.K., Raja, R., Turner, J.A., Sarwate, A.D., Plis, S.M. and Calhoun, V.D.	Journal Paper	COINSTAC: Collaborative Informatics and Neuroimaging Suite Toolkit for Anonymous Computation	Journal of Open Source Software, Vol. 5, No. 54, pg. 2166, October 2020.
Ghassemi, M.	Shakeri, Z., Sarwate, A. D. and Bajwa, W.U.	Journal Paper	Learning Mixtures of Separable Dictionaries for Tensor Data: Analysis and Algorithms	IEEE Transactions on Signal Processing, Vol. 68, No. 1, pp. 33-48, January 2020. CoRR abs/1903.09284 (2019)
Ghassemi, M.	Shakeri, Z., Bajwa, W. U. and Sarwate, A.D.	Conference Paper	Sample Complexity Bounds for Low-Separation-Rank Dictionary Learning	Proceedings of the 2019 IEEE International Symposium on Information Theory (ISIT 2019), Paris, France, July 2019, pp. 2294-2298.
Ghassemi, M.	Sarwate, A.D. and Goela, N.	Conference Paper	Global Optimality in Inductive Matrix Completion	Proceedings of the 2018 International Conference on Acoustics, Speech and Signal Processing (ICASSP 2018), Calgary, Alberta, Canada, April 2018, pp. 2226-2230.
Ghassemi, M.	Shakeri, Z., Sarwate, A.D. and Bajwa, W.U.	Conference Paper	STARK: Structured Dictionary Learning Through Rank-One Tensor Recovery	Proceedings of the 7 th IEEE International Workshop on Computational Advances in Multi-Sensor Adaptive Processing (CAMSAP 2017), Curaçao, Dutch Antilles, December 2017, pp. 1-5. CoRR abs/1711.04887 (2017)
Ghassemi, M.	Sarwate, A.D. and Wright, R.N.	Conference Paper	Differentially Private Online Active Learning with Applications to Anomaly Detection	Proceedings of the 9 th ACM Workshop on Artificial Intelligence and Security (AISec@CCS 2016), Vienna, Austria, October 2016, pg. 117-128.
Ghosh, I.	Singh, V.	Journal Paper	Phones, Privacy and Predictions: A Study of Phone Logged Data to Predict Privacy Attitudes of Individuals	Online Information Review, Early Access, 2018.

List of WINLAB Faculty and Students Peer Reviewed Publications (...continued)

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Author	Co-Authors	Paper/Talk	Title	Where/When
Giannoulis, S.	Mehari, M.T., Shahid, A., Stojadinovic, D., Claeys, M., Mahfoudhi, F., Liu, W., Seskar, I., Latré, S., Moerman, I., Donato, C., Mennes, R., deFigueiredo, F.A.P., Jabandzic, I., DeBock, Y., Camelo, M., Struye, J. and Maddala, P.	Conference Paper	Dynamic and Collaborative Spectrum Sharing: The SCATTER Approach	Proceedings of the IEEE International Symposium on Dynamic Spectrum Access Networks (DySPAN 2019), Newark, NJ, November 2019, pp. 1-6.
Gokalgandhi, B.	Seskar, I.	Conference Paper	Distributed Processing for Encoding and Decoding of Binary LDPC Codes using MPI	Proceedings of 2019 IEEE INFOCOM Workshops, Paris, France, April/May 2019, pp. 596-601.
Gokalgandhi, B.	Segerholm, C., Paul, N. and Seskar, I.	Conference Paper	Accelerating Channel Estimation and Demodulation of Uplink OFDM Symbols for Large Scale Antenna Systems using GPU	Proceedings of the International Conference on Computing, Networking and Communications (ICNC 2019), Honolulu, HI, February 2019, pp. 955-959. CoRR/abs 1901.07499 (2019)
Gokalgandhi, B.	Maddala, P., Seskar, I.	Conference Paper	Implementation of FPGA based Channel Sounder for Large Scale Antenna Systems using RFNoC on USRP Platform	Proceedings of the 7 th GNU Radio Conference, San Diego, CA, Vol. 2, No. 1, September 2017.
Gosain, A.	Seskar, I.	Conference Paper	GENI Wireless Testbed: An Open Edge Ecosystem for Ubiquitous Computing Applications	Proceedings of the 2017 IEEE International Conference on Pervasive Computing and Communications Workshop (PerCom) Kona, HI, March 2017, pp. 54-56.
Gosain, A.	Seskar, I.	Demo	GENI Wireless Testbed: A Flexible Open Ecosystem for Wireless Communications Research	Proceedings of the 22 nd Annual Conference on Mobile Computing (MobiCom 2016), New York, NY, October 2016, pp. 513-514.
Graves, E.	Yu, P.L. and Spasojevic, P.	Conference Paper	Keyless Authentication in the Presence of a Simultaneously Transmitting Adversary	Proceedings of IEEE Information Theory Workshop (ITW 2016), Cambridge, UK, September 2016, pp. 201-205. CoRR abs/1609.09454 (2016)
Grosse-Puppenthal, T.	Dellangol, X., Hatzfeld, C., Fu, B., Kupnik, M., Kuijper, A., Hastall, M.R., Scott, J. and Gruteser, M.	Conference Paper	Platypus: Indoor Localization and Identification through Sensing of Electric Potential Changes in Human Bodies	Proceedings of the 14 th ACM International Conference on Mobile Systems, Applications, and Services (MobiSys 2016), Singapore, June 2016, pp. 17-30.
Gruteser, M.		Journal Paper	Technical Perspective: Lighting the Way to Visual Privacy	Communications of the ACM, Vol. 63, No. 2, pg. 80, February 2020.
Gruteser, M.		Conference Paper	From the Lab to the Road: Lessons from Connected Vehicle Testbeds	Proceedings of the 11 th ACM Workshop on Wireless Network Testbeds, Experimental Evaluation and Characterization (WinTech 2017), held in conjunction with MobiCom 2017, Snowbird, UT, October 2017, pp. 33
Gruteser, M.	Hoh, B.	Book Chapter	Privacy Preservation of GPS Traces	Springer Encyclopedia of GIS 2017, pp. 1648-1652.
Guo, B.	Zhang, Y., Zhang, D. and Wang, Z.	Journal Paper	Special Issue on Device-Free Sensing for Human Behavior Recognition	Personal and Ubiquitous Computing, Vol. 23, No. 1, pp. 1-2, February 2019.
Guo, B.	Chen, Y., Lane, N.D., Liu, Y. and Yu, Z.	Journal Paper	Behavior Recognition Based on Wi-Fi CSI: Part 2	IEEE Communications Magazine, Vol. 56, No. 5, pg. 108, May 2018.

List of WINLAB Faculty and Students Peer Reviewed Publications (...continued)

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Author	Co-Authors	Paper/Talk	Title	Where/When
Guo, B.	Chen, Y., Lane, N.D., Liu, Y and Li, M.	Journal Paper	Behavior Recognition Based on Wi-Fi CSI: Part 1	IEEE Communications Magazine, Vol. 55, No. 10, pg. 90, October 2017.
Guo, X.	Liu, J. and Chen, Y.	Journal Paper	When Your Wearables Become Your Fitness Mate	Elsevier Smart Health, Vol. 16, May 2020, pp. 1-19.
Guo, X.	Liu, J., Shi, C., Liu, H., Chen, Y. and Chuah, M.C.	Journal Paper	Device-Free Personalized Fitness Assistant Using Wi-Fi	ACM Interactive, Mobile, Wearable and Ubiquitous Technologies, Vol. 2, Issue 4, pp. 165:1-165:23, December 2018.
Guo, X.	Liu, B., Shi, C., Liu, H., Chen, Y. and Chuah, M.C.	Conference Paper	WiFi-Enabled Smart Human Dynamics Monitoring	Proceedings of the 15 th ACM Conference on Embedded Networked Sensor Systems (SenSys 2017), Delft, Netherlands, November 2017, pp. 16:1-16:13.
Guo, X.	Liu, J. and Chen, Y.	Conference Paper	FitCoach: Virtual Fitness Coach Empowered by Wearable Mobile Devices	Proceedings of the IEEE International Conference on Computer Communications (INFOCOM 2017), Atlanta, GA, May 2017, pp. 1-9.
Guo, X.	Liu, J. and Chen, Y.	Conference Poster	Automatic Personal Fitness Assistance Through Wearable Mobile Devices	Proceedings of the ACM 22 nd Annual International Conference on Mobile Computing and Networking (MobiCom 2016), New York, NY, October 2016, pp. 437-438.
Gutterman, C.	Zussman, G., Minakhmetov, A., Yu, J., Sherman, M., Chen, T., Zhu, S., Sesar, I., Raychaudhuri, D. and Kilper, D.C.	Conference Paper	Programmable Optical x-Haul Network in the COSMOS Testbed	Proceedings of the 27 th IEEE International Conference on Network Protocols (ICNP 2019), Chicago, IL, October 2019, pp. 1-2.
Hajimirsadeghi, M.	Mandayam, N.B.	Conference Paper	A Dynamic Colonel Blotto Game Model for Spectrum Sharing in Wireless Networks	Proceedings of the 55 th Annual Allerton Conference on Communication, Control, and Computing, Monticello, IL, October 2017, pp. 287-294.
Hajimirsadeghi, M.	Mandayam, N. and Reznik, A.	Journal Paper	Joint Caching and Pricing Strategies for Popular Content in Information Centric Networks	IEEE Journal of Selected Area in Communications, Vol. 35, No. 3, pp. 654-667, March 2017. CoRR abs/1609-00852 (2016)
Hajimirsadeghi, M.	Sridharan, G., Saad, W. and Mandayam, N.B.	Conference Paper	Inter-Network Dynamic Spectrum Allocation via a Colonel Blotto Game	Proceedings of the 2016 Annual Conference on Information Science and Systems (CISS), Princeton, NJ, March 2016, pp. 252-257.
Hansen, J.H.L.	Takeda, K., Naik, S.M., Trivedi, M.M., Schmidt, G.U., Chen, Y. and Trappe, W.	Journal Paper	Signal Processing for Smart Vehicle Technologies: Part 2 [From the Guest Editors]	IEEE Signal Processing Magazine, Vol. 34, No. 2, pp. 18-21, March 2017.
Hansen, J.H.L.	Takeda, K., Naik, S.M., Trivedi, M.M., Schmidt, G.U., and Chen, Y.	Journal Paper	Signal Processing for Smart Vehicle Technologies [From the Guest Editors]	IEEE Signal Processing Magazine, Vol. 33, No. 6, pp. 12-13, November 2016.
Hazan, T.	Orabona, F., Sarwate, A.D., Maji, S. and Jaakkola, T.S.	Journal Paper	High Dimensional Inference with Random Maximum A-Posteriori Perturbations	IEEE Transactions on Information Theory, Vol. 65, No. 10, pp. 6539-6560, October 2019. CoRR abs/1602.03571 (2016)
Hirai, T.	Spasojevic, P.	Conference Paper	Link-Level Performance Evaluations of Sparse Code Multiple Access for PC5-based Cellular-V2X with Heterogeneous Channel Estimation Errors	Proceedings of the 2021 IEEE 93 rd Vehicular Technology Conference (VTC 2021-Spring), held virtually, April/May 2021, pp. 1-5.

List of WINLAB Faculty and Students Peer Reviewed Publications (...continued)

(2016 – 2021)

Author	Co-Authors	Paper/Talk	Title	Where/When
Hoh, B.	Gruteser, M.	Book Chapter	Multiple Target Tracking	Springer Encyclopedia of GIS 2017, pp. 1412-1413.
Hu, B.	Zhao, T., Xie, Y., Wang, Y. Guo, X., Cheng, J. and Chen, Y.	Conference Paper	MIXP: Efficient Deep Neural Networks Pruning for Further FLOPs Compression via Neuron Bond	Proceedings of the Joint Conference on Neural Networks (IJCNN 2021), held virtually, July 2021, pp. 1-8.
Huang, C.	Sankar, L. and Sarwate, A.D.	Journal Paper	Designing Incentive Schemes for Privacy-Sensitive Users	Journal of Privacy and Confidentiality, Vol. 7, No.1, pp. 99-127, March 2016.
Hussain, Z.	Waterworth, D., Aldeer, M., Zhang, W.E., Sheng, Q.Z. and Ortiz, J.	Conference Paper	Do You Brush Your Teeth Properly? An Off-body Sensor-based Approach for Toothbrushing Monitoring	Proceedings of the IEEE International Conference on Digital Health (ICDH 2021), held virtually from Chicago, IL, September 2021, pp. 59-69.
Ibrahim, M.	Rostami, A., Yu, B., Liu, H., Jawahar, M., Nguyen, V., Gruteser, M., Bai, F. and Howard, R.E.	Conference Paper	Wi-Go: Accurate and Scalable Vehicle Positioning using WiFi Fine Timing Measurement	Proceedings of the 18 th ACM International conference on Mobile Systems, Applications and Services (MobiSys 2020), held virtually in Toronto, Canada, June 2020, pp. 312-324.
Ibrahim, M.	Liu, H., Jawahar, M., Nguyen, V., Gruteser, M., Howard, R.E., Yu, B. and Bai, F.	Conference Paper	Verification: Accuracy Evaluation of WiFi Fine Time Measurements on an Open Platform	Proceedings of the 24 th Annual International Conference on Mobile Computing and Networking (MobiCom 2018), New Delhi, India, Oct/Nov 2018, pp. 417-427.
Ibrahim, M.	Gruteser, M., Harras, K.A., and Youssef, M.	Conference Paper (Invited Paper)	Over-the-Air TV Detection using Mobile Devices	Proceedings of the 26 th International Conference on Computer Communications and Networks (ICCCN 2017) Vancouver, Canada, August 2017, pp.1-9.
Ibrahim, M. and Nguyen, V.	Rupavatharam, S., Jawahar, M., Gruteser, M. and Howard, R.E.	Conference Paper	Visible Light-Based Activity Sensing using Ceiling Photosensors	Proceedings of the 3 rd ACM Workshop on Visible Light Communication Systems (VLCS 2016) held in conjunction with MobiCom 2016, New York, NY, October 2016, pp. 43-48.
Imtiaz, H.	Sarwate, A.D.	Conference Paper	Distributed Differentially-Private Canonical Correlation Analysis	Proceedings of the 2019 International Conference on Acoustics, Speech and Signal Processing (ICASSP 2019), Brighton, UK, May 2019, pp. 3112-3116.
Imtiaz, H.	Sarwate, A.D.	Journal Paper	Distributed Differentially-Private Algorithms for Matrix and Tensor Factorization	IEEE Journal of Selected Topics in Signal Processing, Vol. 12, No. 6, pp. 1449-1464, December 2018. CoRR abs/1804.10299 (2018)
Imtiaz, H.	Sarwate, A.D.	Conference Paper	Improved Algorithms for Differentially Private Orthogonal Tensor Decomposition	Proceedings of the 2018 International Conference on Acoustics, Speech and Signal Processing (ICASSP 2018), Calgary, Alberta, Canada, April 2018, pp. 2201-2205.
Imtiaz, H.	Sarwate, A.D.	Conference Paper	Differentially Private Distributed Principal Component Analysis	Proceedings of the 2018 International Conference on Acoustics, Speech and Signal Processing (ICASSP 2018), Calgary, Alberta, Canada, April 2018, pp. 2206-2210.
Imtiaz, H.	Sarwate, A.D.	Conference Paper	Differentially-Private Canonical Correlation Analysis	Proceedings of the 5 th IEEE Global Conference on Signal and Information Processing (GlobalSIP 2017), Montreal, Canada, November 2017, pp. 283-287.

List of WINLAB Faculty and Students Peer Reviewed Publications (...continued)

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Author	Co-Authors	Paper/Talk	Title	Where/When
Imtiaz, H.	Silva, R.F., Baker, B.T., Plis, S.M., Sarwate, A.D. and Calhoun, V.D.	Conference Paper	Privacy-Preserving Source Separation for Distributed Data Using Independent Component Analysis	Proceedings of the 2016 Annual Conference on Information Science and Systems (CISS 2016), Princeton, NJ, March 2016, pp. 123-127.
Imtiaz, H.	Sarwate, A.D.	Conference Paper	Symmetric Matrix Perturbation for Differentially-Private Principal Component Analysis	Proceedings of 2016 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2016), Shanghai, March 2016, pp. 2339-2343.
Izz, M.	Li, Z.Y., Liu, H., Chen, Y. and Li, F.	Conference Paper	Uber-in-Light: Unobtrusive Visible Light Communication Leveraging Complementary Color Channel	Proceedings of the 35 th Annual IEEE International Conference on Computer Communications (INFOCOM 2016), San Francisco, CA, April 2016, pp. 1-9.
Jain, S.	Gruteser, M.	Journal Paper	Recognizing Textures with Mobile Cameras for Pedestrian Safety Applications	IEEE Transactions on Mobile Computing, Vol. 18, No. 8, pp. 1911-1923, August 2019. CoRR abs/1711.00558 (2017)
Jain, S.	Nguyen, V., Gruteser, M. and Bahl, P.	Conference Paper	Panoptes: Servicing Multiple Applications Simultaneously using Steerable Cameras	Proceedings of the 16 th International Conference on Information Processing in Sensor Networks (IPSN 2017), Pittsburgh, PA, April 2017, pp. 119-130.
Jawahar, M.	Gruteser, M. and Howard, R.E.	Conference Paper	Kicking Yourself Awake: Towards Self-powering Mats for Room-level Localization and Occupancy Detection	Proceedings of the 22 nd International Workshop on Mobile Computing Systems and Applications (MobiSys 2021) held virtually, February 2021, pp. 126-132.
Jawahar, M.	Gruteser, M. and Howard, R.E.	Conference Demo	Kicking Yourself Awake: Towards Self-powering Mats for Room-level Localization and Occupancy Detection	Proceedings of the 22 nd International Workshop on Mobile Computing Systems and Applications (MobiSys 2021) held virtually, February 2021 pp. 182-183.
Jelenkovic, F.	Tosic, M. and Seskar, I.	Conference Paper	A Semantic Approach to Wireless Networking Testbed Infrastructure	Proceedings of the 14 th International Symposium on Modeling and Optimization in Mobile, Ad Hoc, and Wireless Networks (WiOpt 2016), Tempe, AZ, May 2016, pp. 53-60.
Ji, W.	Chen, Y., Chen, M., Chen, B-W., Chen, Y., and Kung, S-Y.	Journal Paper	Profit Maximization through Online Advertising Scheduling for a Wireless Video Broadcast Network	IEEE Transactions on Mobile Computing, Vol. 15, No. 8, pp. 2064-2079, August 2016.
Jia, Z.	Lyu, X., Zhang, W., Martin, R.P., Howard, R.E. and Zhang, Y.	Conference Paper	Continuous Low-Power Ammonia Monitoring Using Long Short-Term Memory Neural Networks	Proceedings of the 16 th ACM Conference on Embedded Networked Sensor Systems (SenSys 2018), Shenzhen, China, November 2018, pp. 224-236.
Jia, Z.	Bonde, A., Li, S., Xu, C., Wang, J., Zhang, Y., Howard, R.E. and Zhang, P.	Conference Paper	Monitoring a Person's Heart Rate and Respiratory Rate on a Shared Bed Using Geophones	Proceedings of the 15 th ACM International Conference on Embedded Networked Sensor Systems (SenSys 2017), Delft, Netherlands, November 2017, pp. 6:1-6:14.
Jia, Z.		PhD Forum Abstract	Separating Heartbeats from Multiple People on One Bed Using Geophones	Proceedings of the 16 th ACM/IEEE International Conference on Information Processing in Sensor Networks (IPSN 2017), Pittsburgh, PA, April 2017, pp. 253-256.
Jia, Z.	Howard, R.E., Zhang, Y. and Zhang, P.	Demo Abstract	HB-Phone: A Bed-Mounted Geophone-Based Heartbeat Monitoring System	Proceedings of the 16 th ACM/IEEE International Conference on Information Processing in Sensor Networks (IPSN 2017), Pittsburgh, PA, April 2017, pp. 275-276.
Jia, Z.	Alaziz, M., Chi, X., Howard, R.E., Zhang, Y., Zhang, P., Trappe, W., Sivasubramaniam, A. and An, N.	Conference Paper	HB-Phone: A Bed-Mounted Geophone-Based Heartbeat Monitoring System	Proceedings of the 15 th ACM/IEEE International Conference on Information Processing in Sensor Networks (IPSN 2016), Vienna, Austria, April 2016, pp. 22:1-22:12.

Author	Co-Authors	Paper/Talk	Title	Where/When
Jiang, C.	Fahad, M., Guo, Yi. And Chen, Y.	Journal Paper	Robot-Assisted Smartphone Localization for Human Indoor Tracking	Robotics and Autonomous Systems, Vol. 106, pp. 82-94, August 2018.
Joshi, G.	Soljanin, E. and Wornell, G.W.	Journal Paper	Efficient Redundancy Techniques for Latency Reduction in Cloud Systems	ACM Transactions on Modeling Performance Evaluation of Computer Systems, Vol. 2, No. 2, pp. 12:1-12:30, April 2017.
Ju, W.	Yavo-Ayalon, S., Saldarini, F., Friedman, N., Sibi, S., Zamfirescu-Pereira, J.D. and Ortiz, J.	Journal Paper	Tracking Urban Mobility and Occupancy under Social Distancing Policy	Digital Government: Research and Practice, Vol. 1, No. 4, pp. 32:1 – 13:12, October 2020.
Kalantari, K.	Sankar, L. and Sarwate, A.D.	Journal Paper	Robust Privacy-Utility Tradeoffs Under Differential Privacy and Hamming Distortion	IEEE Transactions on Information Forensics and Security, Vol. 13, No. 11, pp. 2816-2830, November 2018.
Kalantari, K.	Sankar, L. and Sarwate, A.D.	Conference Paper	Optimal Differential Privacy Mechanisms under Hamming Distortion for Structured Source Classes	Proceedings of the 2016 IEEE International Symposium on Information Theory (ISIT 2016), Barcelona, Spain, July 2016, pp. 2069-2073.
Kar, G.	Jain, S., Gruteser, M., Chen, J., Bai, F. and Govindan, R.	Conference Paper	PreDriveID: Pre-Trip Driver Identification from In-Vehicle Data	Proceedings of the 2 nd ACM/IEEE Symposium on Edge Computing (SEC 2017), San Jose, CA, October 2017, pp. 2:1-2:12.
Kar, G.	Jain, S., Gruteser, M., Bai, F. and Govindan, R.	Conference Paper	Real-Time Traffic Estimation at Vehicular Edge Nodes	Proceedings of the 2 nd ACM/IEEE Symposium on Edge Computing (SEC 2017), San Jose, CA, October 2017, pp. 3:1-3:13.
Karatas, C.	Liu, L., Gruteser, M. and Howard, R.E.	Conference Paper	Single-Sensor Motion and Orientation Tracking in a Moving Vehicle	Proceedings of the 15 th IEEE International Conference on Sensing, Communication and Networking (SECON 2018), Hong Kong, June 2018, pp. 181-189.
Karatas, C.	Li, H. and Liu, L.	Conference Paper	Toward Detection of Unsafe Driving with Inertial Head-mounted Sensors	Proceedings of 8 th Wireless of the Students, by the Students and for the Students Workshop held in conjunction with MobiCom 2016, New York, NY, October 2016, pp. 45-47.
Karatas, C.	Liu, L., Li, H., Liu, J., Wang, Y., Tan, S., Yang, J., Chen, Y. Gruteser, M. and Martin, R.P.	Conference Paper	Leveraging Wearables for Steering and Driver Tracking	Proceedings of International Conference on Computer Communications (INFOCOM 2016), San Francisco, CA, April 2016, pp. 1-9.
Karimi, E.	Soljanin, E. and Whiting, P.	Conference Paper	Increasing the Raw Key Rate in Energy-Time Entanglement Eased Quantum Key Distribution	Proceedings of the 54 th Asilomar Conference on Signals, Systems and Computers (ACSSC 2020), held virtually, November 2020. CoRR abs/2001.09049 (2020)
Karimi, P.	Lehr, W.H., Seskar, I. and Raychaudhuri, D.	Conference Paper	SMAP: A Scalable and Distributed Architecture for Dynamic Spectrum Management	Proceedings of the IEEE International Symposium on Dynamic Spectrum Access Networks (DySPAN 2018), Seoul, South Korea, October 2018, pp. 1-10.
Karimi, P.	Mukherjee, S., Kolodziejcki, J., Seskar, I. and Raychaudhuri, D.	Conference Paper	Measurement Based Mobility Emulation Platform for Next Generation Wireless Networks	Proceedings of the 5 th International Workshop on Computer and Networking Experimental Research Using Testbeds (CNERT 2018) in the INFOCOM Workshops, Honolulu, HI, April 2018, pp. 330-335.
Karimi, P.	Sanchez Moya, O., Bulakci, O., Gutierrez-Estevez, D.M., Ericson, M., Prasad, A. and Fodor, G.	Conference Paper	Holistic Resource Management and Air Interface Abstraction Models	Proceedings of the 2017 Conference on Standards for Communications and Networking (CSCN), Helsinki, Finland, September 2017, pp. 264-268.

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Author	Co-Authors	Paper/Talk	Title	Where/When
Karimi, P.	Sherman, M., Bronzino, F., Seskar, I., Raychaudhuri, D. and Gosain, A.	Conference Paper	Evaluating 5G Multihoming Services in the MobilityFirst Future Internet Architecture	Proceedings of the IEEE RAFNET Workshop held in conjunction with IEEE 85 th Vehicular Technology Conference, Sydney, Australia, June 2017, pp. 1-5.
Karimi, P.	Seskar, I. and Raychaudhuri, D.	Conference Paper	Achieving High Performance Cellular Data Services with Multi-Network Access	Proceedings of the IEEE Global Communications Conference (GLOBECOM 2016), Washington, DC, December 2016, pp. 1-6.
Kasher, M.	Zhao, M., Greenberg, A., Gulati, D., Kokalj-Filipovic, S., Spasojevic, P.	Invited Paper	Inaudible Manipulation of Voice-Enabled Devices Through BackDoor Using Robust Adversarial Audio Attacks	Proceedings of the ACM Workshop on Wireless Security and Machine Learning (WiseML@WiSec 2021), held virtually, Jun/Jul 2021, pp. 37-42.
Kaul, S.K.	Yates, R. D.	Conference Paper	Timely Updates by Multiple Sources: The M/M/1 Queue Revisited	Proceedings of the 54 th Annual Conference on Information Sciences and Systems (CISS 2020), Princeton, NJ, March 2020, pp.1-6. CoRR abs/2002.02817 (2020)
Kaul, S.K.	Yates, R.D.	Conference Paper	Age of Information: Updates with Priority	Proceedings of the 2018 IEEE International Symposium on Information Theory (ISIT 2018), Vail, CO, June 2018, pp. 2644-2648.
Kaul, S.K.	Yates, R.D.	Conference Paper	Status Updates Over Unreliable Multiaccess Channels	Proceedings of the IEEE International Symposium on Information Theory (ISIT 2017), Aachen, Germany, June 2017, pp. 331-335. CoRR abs/1705.02521 (2017)
Kazemi, F.	Kurz, S. and Soljanin, E.	Conference Paper	A Geometric View of the Service Rates of Codes Problem and its Application to the Service Rate of the First Order Reed-Muller Codes	Proceedings of the 2020 IEEE International Symposium on Information Theory (ISIT 2020) held virtually, Los Angeles, CA, June 2020, pp. 66-71. CoRR abs/2001.09121 (2020)
Kazemi, F.	Karimi, E., Soljanin, E. and Sprintson, A.	Conference Paper	A Combinatorial View of the Service Rates of Codes Problem, its Equivalence to Fractional Matching and its Connection with Batch Codes	Proceedings of the 2020 IEEE International Symposium on Information Theory (ISIT 2020) held virtually, Los Angeles, CA, June 2020, pp. 646-651. CoRR abs/2001.09146 (2020)
Kenney, J.	Lu, H. and Cheng, B.	Conference Paper	Technical Challenges of Sharing DSRC band at 5.9 GHz in US	Presented at the 2017 ITS World Congress, Montreal, Canada, October 29-November 2, 2017.
Khan, U.A.	Bajwa, W.U., Nedic, A., Rabbat, M.G. and Sayed, A.H.	Journal Paper	Optimization for Data-Driven Learning and Control	Proceedings of the IEEE, Vol. 108, No. 11, pp. 1863-1868, November 2020.
Kirby, E.	Park, S., Wang, Y. and Chen, Y.	Conference Demo	HearHere: Smartphone Based Audio Localization Using Time Difference of Arrival	Proceedings of the ACM 22 nd Annual International Conference on Mobile Computing and Networking (MobiCom 2016), New York, NY, October 2016, pp. 509-510.
Kohli, M.	Chen, T., Dastjerdi, M.B., Welles, J., Seskar, I., Krishnaswamy, H., Zussman, G.	Journal Paper	Open-Access Full-Duplex Wireless in the ORBIT and COSMOS Testbeds	Computer Networks, Vol. 199, Article 108420, pp. 1-11, November 2021.

Author	Co-Authors	Paper/Talk	Title	Where/When
Kohli, M.	Chen, T., Dastjerdi, M.B., Welles, J., Seskar, I., Krishnaswamy, H., Zussman, G.	Conference Paper	Open-Access Full-Duplex Wireless in the ORBIT and COSMOS Testbeds	Proceedings of the 14 th ACM Workshop on <u>Wireless Network Testbed, Experimental Evaluation and Characterization</u> (WiNTECH 2020) in conjunction with ACM MobiCom 2020, presented virtually from London, United Kingdom, September 2020, pp. 9-16.
Kohli, M.	Chen, T., Welles, J., Dastjerdi, M.B., Kolodziejcki, J., Sherman, M., Seskar, I., Krishnaswamy, H. and Zussman, G.	Conference Demo	Remote Experimentation with Open-Access Full-Duplex Wireless in the COSMOS Testbed	Proceedings of the 26 th Annual International Conference on Mobile Computing and Networking (MobiCom 2020), presented virtually from London, United Kingdom, September 2020, pp. 74:1-74:3.
Kokalj-Filipovic, S.	Kasher, M., Zhao, M. and Spasojevic, P.	Conference Paper	Detecting Acoustic Backdoor Transmission of Inaudible Messages Using Deep Learning	Proceedings of the 13 th ACM Conference on Security and Privacy in Wireless and Mobile Networks (WiSec 2020) co-hosted with the 2 nd ACM Workshop on Wireless Security and Machine Learning (WiseML 2020), presented virtually, July 2020, pp. 80-85.
Kokalj-Filipovic, S.	Spasojevic, P. and Poylisher, A.	Conference Paper	Non-Parametric Learning to Infer Wireless Relays, Routes and Traffic Patterns from Time Series of Spectrum Activity	Proceedings of the 51 st Asilomar Conference on Signals, Systems and Computers (ACSSC 2017), Pacific Grove, CA, October/November 2017, pp. 920-927.
Kolosov, O.	Yadgar, G., Maheshwari, S. and Soljanin, E.	Conference Paper	Benchmarking in the Dark: On the Absence of Comprehensive Edge Datasets	Proceedings of the 3 rd USENIX Workshop on Hot Topics in Edge Computing (HotEdge 2020) held virtually, June 2020.
Kong, H.	Lu, L., Yu, J., Chen, Y., Xu, X., Tang, F. and Chen, Y-C.	Conference Paper		Proceedings of ACM International Symposium on Theory, Algorithmic Foundations and Protocol Design for Mobile Networks and Mobile Computing (MobiHoc 2021) held virtually from Shanghai, China, July 2021, pp. 31-40.
Kong, H.	Lu, L., Yu, J., Chen, Y. and Tang, F.	Journal Paper	Continuous Authentication Through Finger Gesture Interaction for Smart Homes Using WiFi	IEEE Transactions on Mobile Computing, Vol. 20, No. 11, pp. 3148-3162, November 2021. IEEE Transactions on Mobile Computing, Early Access Article, May 2020.
Kong, H.	Lu, L., Yu, J., Chen, Y., Kong, L. and Li, M.	Conference Paper	FingerPass: Gesture-Based Continuous User Authentication for Smart Homes Using Commodity WiFi	Proceedings of the 20 th International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc 2019), Catania, Italy, July 2019, pp. 201-210.
Kong, J.	Dagefu, F.T., Choi, J. and Spasojevic, P.	Journal Paper	Intelligent Reflecting Surface Assisted Covert Communication with Transmission Probability Optimization	IEEE Wireless Communications Letters, Vol. 10, No. 8, pp. 1825-1829, August 2021.
Koumpouzi, C.	Spasojevic, P. and Dagefu, F.T.	Journal Paper	Improved LPD Characteristics for QS-DS-CDMA Employing Randomization Techniques	IEEE Transactions on Information on Forensics Security, Vol. 16, pp. 4762-4771, September 2021.
Koumpouzi, C.	Spasojevic, P. and Dagefu, F.T.	Conference Paper	Performance Analysis of Signal Pattern Reducing Techniques for Low Probability of Detection	Proceedings of the 90 th IEEE Vehicular Technology Conference (VTC-Fall 2019), Honolulu, HI, September 2019, pp. 1-5.
Kuber, T.	Seskar, I. and Mandayam, N.B.	Conference Paper	Traffic Prediction by Augmenting Cellular Data with Non-Cellular Attributes	Proceedings of the IEEE Wireless Communications and Networking Conference (WCNC 2021) held virtually, March/April 2021, pp. 1-6
Kuber, T.	Saha, D. and Seskar, I.	Conference Paper	Blind Classification of MIMO Wireless Signals	Proceedings of the 90 th IEEE Vehicular Technology Conference (VTC-Fall 2019), Honolulu, HI, September 2019, pp. 1-5.

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Author	Co-Authors	Paper/Talk	Title	Where/When
Kuber, T.	Saha, D. and Seskar, I.	Conference Paper	Predicting Channel Transition for MU-MIMO Beamforming	Proceedings of the IEEE 5G World Forum (WF-5G 2018), Santa Clara, CA, July 2018, pp. 83-88.
Kuber, T.	Sridharan, G., Saha, D. and Seskar, I.	Conference Paper	Practical MU-MIMO Experiments using SDRs	Proceedings of 2017 IEEE INFOCOM Workshops, Atlanta, GA, May 2017, pp. 517-522
Kukkalli, H.	Maheshwari, S., Seskar, I. and Skorupski, M.	Conference Paper	Evaluation of Multi-Operator Dynamic 5G Network Slicing for Vehicular Emergency Scenarios	Proceedings of IFIP Networking 2020, presented virtually from Paris, France, June 2020, pp. 761-766.
Kumatani, N.	Isomura, M., Murase, T., Oguchi, M., Sagari, S., Baid, A., Seskar, I. and Raychaudhuri, D.	Conference Paper	Context Aware Multi-Rate Control in Densely Deployed IEEE 802.11 WLAN for Avoiding Performance Anomaly	Proceedings of the 41 st IEEE Conference on Local Computer Networks (LCN 2016), Dubai, UAE, November 2016, pp 363-370.
Kumbhkar, R.	Sridharan, G., Mandayam, N.B., Seskar, I. and Kompella, S.	Conference Paper	Impact of Asynchronous Transmissions in Noncontiguous OFDMA	Proceedings of the IEEE International Symposium of Dynamic Spectrum Access Networks (DySPAN 2017), Baltimore, MD, March 2017, pp. 1-9.
Kumbhkar, R.	Sridharan, G., Mandayam, N. B., Seskar, I. and Kompella, S.	Conference Paper	Design and Implementation of an Underlay Control Channel for NC-OFDM-Based Networks	Proceedings of the Conference on Information Sciences and Systems (CISS 2016), Princeton, NJ, March 2016, pp. 228-233.
Kurri, G.R.	Prabhakaran, V.M. and Sarwate, A.D.	Conference Paper	Coordination Using Individually Shared Randomness	Proceedings of the 2018 IEEE International Symposium on Information Theory (ISIT 2018), Vail, CO, June 2018, pp. 2550-2554. CoRR abs/1805.03193 (2018)
Kwon, S.M.	Yang, S., Liu, J., Yang, X., Saleh, W., Patel, S., Mathews, C. and Chen, Y.	Conference Demo	Hands-Free Human Activity Recognition Using Millimeter-Wave Sensors	Proceedings of the IEEE International Symposium on Dynamic Spectrum Access Networks (DySPAN 2019), Newark, NJ, November 2019, pp. 1-2.
Lalitha, A.	Javidi, T. and Sarwate, A.D.	Journal Paper	Social Learning and Distributed Hypothesis Testing	IEEE Transactions on Information Theory, Vol. 64, No. 9, pp. 6161-6179, September 2018.
Lara, A.	Mukherjee, S., Ramamurthy, B., Raychaudhuri, D. and Ramakrishnan, K.K.	Journal Paper	Automated Inter-Domain Cut-Through Switching for the Future Internet	IEEE Transactions on Network and Service Management, Vol. 15, No. 4, pp. 1393-1406, December 2018.
Lara, A.	Mukherjee, S., Ramamurthy, B., Raychaudhuri, D. and Ramakrishnan, K.K.	Conference Paper	Inter-Domain Routing with Cut-Through Switching for the MobilityFirst Future Internet Architecture	Proceedings of the IEEE International Communications Conference (ICC 2016), Kuala Lumpur, Malaysia, May 2016, pp. 1-6.
Li, B.	Petropulu, A.P., and Trappe, W.	Journal Paper	Optimum Co-Design for Spectrum Sharing between Matrix Completion Based MIMO Radars and a MIMO Communication System	IEEE Transactions on Signal Processing, Vol. 64, No. 17, pp. 4562-4575, September 2016.
Li, H.	Wang, H., Liu, L. and Gruteser, M.	Conference Paper	Automatic Unusual Driving Event Identification for Dependable Self-Driving	Proceedings of the 16 th ACM Conference on Embedded Networked Sensor Systems (SenSys 2018), Shenzhen, China, November 2018, pp. 15-27.
Li, H.	Liu, L., Karatas, C., Liu, J., Gruteser, M., Chen, Y., Wang, Y., Martin, R.P. and Yang, J.	Conference Paper	Towards Safer Texting While Driving through Stop Time Prediction	Proceedings of the 1 st ACM International Workshop on Connected and Automated Vehicle Mobility (CarSys 2016) held in connection with ACM MobiCom, New York, NY, October 2016, pp. 14-21.

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Author	Co-Authors	Paper/Talk	Title	Where/When
Li, S.	Fan, X., Zhang, Y., Trappe, W., Lindqvist, J. and Howard, R. E.	Journal Paper	Auto++: Detecting Cars Using Embedded Microphones in Real-Time	ACM Interactive, Mobile, Wearable and Ubiquitous Technologies, Vol. 1, Issue 3, pp. 70:1-70:20, September 2017.
Li, S.	Fan, X., Zhang, Y., Trappe, W., Lindqvist, J. and Howard, R. E.	Conference Paper	Bo-ear: Unsupervised Car Sound Sensing and Tracking Using Microphones on Smartphones	Proceedings of the 8 th Wireless of the Students, by the Students and for the Students Workshop (S3), held in conjunction with ACM MobiCom 2016, New York, NY, October 2016, pp. 9-11.
Li, S.	Chen, J., Yu, H., Zhang, Y., Raychaudhuri, D., Ravindran, R., Gao, H., Dong, L., Wang, G. and Liu, H.	Conference Paper	MF-IoT: A MobilityFirst-Based Internet of Things Architecture with Global Reach-Ability and Communication Diversity	Proceedings of the 1 st IEEE International Conference on Internet-of-Things Design and Implementation (IoTDI 2016), Pittsburgh, PA, April 2016, pp. 129-140.
Li, S.	Ashok, A., Zhang, Y., Xu, C., Lindqvist, J. and Gruteser, M.	Conference Paper	Whose Move is it Anyway? Authenticating Smart Wearable Devices Using Unique Head Movement Patterns	Proceedings of the IEEE Conference on Pervasive Computing and Communications (PerCom 2016), Sydney, Australia, March 2016, pp. 1-9.
Li, S.	Ashok, A., Zhang, Y., Xu, C., Lindqvist, J. and Gruteser, M.	Demo	Demo of Headbanger: Authenticating Smart Wearable Devices Using Unique Head Movement Patterns	Proceedings of the IEEE Conference on Pervasive Computing and Communications Workshops (PerCom 2016), Sydney, Australia, March 2016, pp. 1-3.
Li, T.	Dey, B.K., Jaggi, S., Langberg, M. and Sarwate, A.D.	Conference Paper	Quadratically Constrained Channels with Casual Adversaries	Proceedings of the 2018 IEEE International Symposium on Information Theory (ISIT 2018), Vail, CO, June 2018, pp. 621-625. CoRR abs/1805.03319 (2018)
Li, X.	Yuan, F. and Lindqvist, J.	Conference Paper	Feasibility of Software-Based Duty Cycling of GPS for Trajectory-Based Services	Proceedings of the 13 th Annual IEEE Consumer Communications and Networking Conference (CCNC 2016), Las Vegas, NV, January 2016, pp. 18-26.
Li, Z.	Shi, C., Zhang, T., Xie, Y., Liu, J., Yuan, B. and Chen, Y.	Conference Paper	Robust Detection of Machine-induced Audio Attacks in Intelligent Audio Systems with Microphone Array	Proceedings of the ACM Conference on Computer and Communications Security (CCS 2021), held virtually, November 2021, pp. 1884-1899.
Li, Z.	Wu, Y., Liu, J., Chen, Y. and Yuan, B.	Conference Paper	AdvPulse: Universal, Synchronization-Free and Targeted Audio Adversarial Attacks via Subsecond Perturbations	Proceedings of the 2020 ACM SIGSAC Conference on Computer and Communications Security (CCS 2020), virtual event, November 2020, pp.1121-1134.
Li, Z.	Shi, C., Xie, Y., Liu, J., Yuan, B. and Chen, Y.	Conference Paper	Practical Adversarial Attacks Against Speaker Recognition Systems	Proceedings of the 21 st International Workshop on Mobile Computing Systems and Applications (HotMobile 2020), Austin, TX, March 2020, pp. 9-14.
Lin, Z.	Xie, Y., Guo, X., Ren, Y., Chen, Y. and Wang, C.	Conference Paper	WiEat: Fine-Grained Device-Free Eating Monitoring Leveraging Wi-Fi Signals	Proceedings of the 29 th International Conference on Computer Communications and Networks (ICCCN 2020), Virtual Event, August 2020, pp. 1-9. CoRR abs/2003.09096 (2020)
Lin, Z.	Xie, Y., Guo, X., Wang, C., Ren, Y. and Chen, Y.	Conference Paper	Wi-Fi-enabled Automatic Eating Moment Monitoring Using Smartphones	Proceedings of the 6 th EAI International Conference on IoT Technologies for Health Care (HealthyIoT 2019), Braga, Portugal, December 2019,

List of WINLAB Faculty and Students Peer Reviewed Publications (...continued)

(2016 – 2021)

Author	Co-Authors	Paper/Talk	Title	Where/When
Liu, Bo	Chen, Y., Liu, H and Yao, Y.	Conference Paper	Mobile Light Storage: Make the Light Smarter	Proceedings of the 17 th International Conference on Mobile Systems and Pervasive Computing (MobiSPC 2020), held in conjunction with the 15 th International Conference on Future Networks and Communications (FNC 2020), Leuven, Belgium, August 2020, pp. 36-45.
Liu, Bangtian	Wen, C., Sarwate, A.D. and Dehnavi, M.M.	Conference Paper	A Unified Optimization Approach for Sparse Tensor Operations on GPUs	Proceedings of the IEEE Cluster Conference (CLUSTER 2017), Hawaii, September 2017, pp. 47-57. CoRR abs/1705.09905 (2017)
Liu, C.	Clark, G.D. and Lindqvist, J.	Conference Paper	Where Usability and Security Go Hand-in-Hand: Robust Gesture-Based Authentication for Mobile Systems	Proceedings of the 2017 Conference on Human Factors in Computing Systems, Denver, CO, May 2017, pp. 374-386.
Liu, C.	Clark, G.D. and Lindqvist, J.	Conference Paper	Guessing Attacks on User-Generated Gesture Passwords	Interactive, Mobile, Wearable and Ubiquitous Technologies, Vol. 1, Issue 1, pp. 3:1-3:24, March 2017.
Liu, G.	Liu, J., Li, F., Ma, X., Chen, Y. and Liu, H.	Conference Paper	SubTrack: Enabling Real-Time Tracking of Subway Riding on Mobile Devices	Proceedings of the 14 th IEEE International Conference on Mobile Ad-Hoc and Sensor Systems (MASS 2017), Orlando, FL, October 2017, pp. 90-98.
Liu, Hang	Eldarrat, F., Alqahtani, H., Reznik, A., DeFoy, X. and Zhang, Y.	Journal Paper	Mobile Edge Cloud System: Architectures, Challenges and Approaches	IEEE Systems Journal, Vol. 12, No. 3, pp. 2495-2508, September 2018.
Liu, Hansi	Alali, A., Ibrahim, M., Li, H., Gruteser, M., Jain, S., Dana, K., Ashok, A., Cheng, B. and Lu, H.	Conference Paper	Lost and Found! Associating Target Persons in Camera Surveillance Footage with Smartphone Identifiers	Proceedings of the 19 th ACM International Conference on Mobile Systems, Applications and Services (MobiSys 2021), held virtually, June/July 2021, pp. 499-500.
Liu, Hansi	Ren, P., Jain, S., Murad, M., Gruteser, M. and Bai, F.	Conference Paper	FusionEye: Perception Sharing for Connected Vehicles and its Bandwidth-Accuracy Trade-offs	Proceedings of the IEEE International Conference on Sensing, Communication and Networking (SECON 2019), Boston, MA, June 2019, pp. 1-9.
Liu, Hongbo	Wang, Y., Ren, Y. and Chen, Y.	Conference Paper	Bipartite Graph Matching Based Secret Key Generation	Proceedings of the IEEE International Conference on Computer Communications (INFOCOM 2021), held virtually, May 2021, pp. 1-10.
Liu, Hongbo	Li, Z., Xie, Y., Jiang, R., Wang, Y., Guo, X. and Chen, Y.	Conference Paper	LiveScreen: Video Chat Liveness Detection Leveraging Skin Reflection	Proceedings of the IEEE International Conference on Computer Communications (INFOCOM 2020), Virtual Event, July 2020, pp. 1083-1092.
Liu, Hongbo	Li, Z., Xie, Y., Jiang, R., Wang, Y., Guo, X. and Chen, Y.	Conference Poster	Video Chat Scam Detection Leveraging Screen Light Reflection	Proceedings of the 25 th Annual International Conference on Mobile Computing and Networking (MobiCom 2019), Los Cabos, Mexico, October 2019, pp. 92:1-92:3.
Liu, Hongbo	Wang, Y., Liu, J., Yang, J., Chen, Y. and Poor, H.V.	Journal Paper	Authentication Users Through Fine-Grained Channel Information	IEEE Transactions on Mobile Computing, Vol. 17, No. 2, pp. 251-264, February 2018.
Liu, Hongbo	Liu, B., Shi, C. and Chen, Y.	Conference Paper	Secret Key Distribution Leveraging Color Shift over Visible Light Channel	Proceedings of the IEEE Conference on Communications and Network Security (CNS 2017), Las Vegas, NV, October 2017, pp. 1-9.
Liu, Hongbo	Chen, Y., Chuah, M.C., Wang, J. and Poor, H.V.	Journal Paper	Enabling Self-Healing Smart Grid Through Jamming Resilient Local Controller Switching	IEEE Transactions on Dependable and Secure Computing, Vol. 14, No. 4, pp. 377-391, July-August 2017.

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Author	Co-Authors	Paper/Talk	Title	Where/When
Liu, Jian	Chen, Y., Dong, Y., Wang, Y., Zhao, T. and Yao, Y-D.	Conference Paper	Continuous User Verification via Respiratory Biometrics	Proceedings of the IEEE International Conference on Computer Communications (INFOCOM 2020), Virtual Event, July 2020, pp. 1-10.
Liu, Jian	Liu, H., Chen, Y., Wang, Y. and Wang, C.	Journal Paper	Wireless Sensing for Human Activity: A Survey	IEEE Communications Survey & Tutorials, Vol. 22, No. 3, pp. 1629-1645, Third Quarter 2020.
Liu, Jian	Shi, C., Chen, Y., Liu, H. and Gruteser, M.	Conference Paper	CardioCam: Leveraging Camera on Mobile Devices to Verify Users While Their Heart is Pumping	Proceedings of the 17 th ACM International Conference on Mobile Systems, Applications and Services (MobiSys 2019), June 2019, pp. 249-261.
Liu, Jian	Dong, Y., Chen, Y., Wang, Y. and Zhao, T.	Conference Poster	Leveraging Breathing for Continuous User Authentication	Proceedings of the 24 th Annual International Conference on Mobile Computing and Networking (MobiCom 2018), New Delhi, India, Oct/Nov 2018, pp. 786-788.
Liu, Jian	Chen, Y., Wang, Y., Chen, X., Cheng, J. and Yang, J.	Journal Paper	Monitoring Vital Signs and Postures During Sleep Using WiFi Signals	IEEE Internet of Things Journal, Vol. 5, No. 3, pp. 2071-2084, June 2018.
Liu, Jian	Wang, C., Chen, Y. and Saxena, N.	Conference Paper	VibWrite: Towards Finger-Input Authentication on Ubiquitous Surfaces via Physical Vibration	Proceedings of the 24 th ACM Conference on Computer and Communications Security (CCS 2017), Dallas, TX, October/ November 2017, pp. 73-87.
Liu, Jian	Chen, Y., Gruteser, M. and Wang, Y.	Conference Paper	VibSense: Sensing Touches on Ubiquitous Surfaces through Vibration	Proceedings of the 14 th IEEE International Conference on Sensing, Communication and Networking (SECON 2017), San Diego, CA, June 2017, pp. 1-9.
Liu, Jian	Chen, Y. and Gruteser, M.	Conference Poster	Sensing on Ubiquitous Surfaces Via Vibration Signals	Proceedings of the ACM 22 nd Annual International Conference on Mobile Computing and Networking (MobiCom 2016), New York, NY, October 2016, pp. 424-425.
Liu, Jian	Wang, C. and Chen, Y.	Conference Poster	PIN Number-Based Authentication Leveraging Physical Vibration	Proceedings of the ACM 22 nd Annual International Conference on Mobile Computing and Networking (MobiCom 2016), New York, NY, October 2016, pp. 426-427
Liu, Jian	Chen, Y. and Gruteser, M.	Conference Demo	VibKeyboard: Virtual Keyboard Leveraging Physical Vibration	Proceedings of the ACM 22 nd Annual International Conference on Mobile Computing and Networking (MobiCom 2016), New York, NY, October 2016, pp. 507-508.
Liu, Jinjun	An, N., Hassan, M.T., Xu, C. and Zhang, Y.	Journal Paper	An Efficient Node Deployment Method for Indoor Passive Localisation	International Journal of Ad Hoc and Ubiquitous Computing, Vol. 30, No. 1, pp. 37-47, January 2019.
Liu, Jinjun	An, N., Hassan, M.T., Chen, G. and Zhang, Y.	Poster Abstract	Node Deployment Mechanism for Quick, Indoor, and Device-Free Localization	Proceedings of the 15 th ACM/IEEE International Conference on Information Processing in Sensor Networks (IPSN 2016), Vienna, Austria, April 2016, pp. 28:1-28:2.
Liu, L.	Gruteser, M.	Conference Paper	EdgeSharing: Edge Assisted Real-time Localization and Object Sharing in Urban Streets	Proceedings of the IEEE International Conference on Computer Communications (INFOCOM 2021), held virtually, May 2021, pp. 1-10.
Liu, L.	Li, H. and Gruteser, M.	Conference Paper	Edge Assisted Real-Time Object Detection for Mobile Augmented Reality	Proceedings of the 25 th Annual International Conference on Mobile Computing and Networking (MobiCom 2019), Los Cabos, Mexico, October 2019, pp. 25:1-25:16.
Liu, L.	Zhong, R., Zhang, W., Liu, Y., Zhang, J., Zhang, L. and Gruteser, M.	Conference Paper	Cutting the Cord: Designing a High-Quality Untethered VR System with Low Latency Remote Rendering	Proceedings of the 16 th Conference on Mobile Systems, Applications and Services (ACM MobiSys 2018), Munich, Germany, June 2018, pp. 68-80.

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Author	Co-Authors	Paper/Talk	Title	Where/When
Liu, L.	Li, H., Liu, J., Karatas, C., Wang, Y., Gruteser, M., Chen, Y. and Martin, R.P.	Conference Paper	BigRoad: Scaling Road Data Acquisition for Dependable Self-Driving	Proceedings of the 15 th ACM International Conference on Mobile Systems, Applications, and Services (MobiSys 2017), Niagara Falls, NY, June 2017, pp. 371-384.
Liu, X.	Zhao, M., Li, S., Zhang, F. and Trappe, W.	Journal Paper	A Security Framework for the Internet of Things in the Future Internet Architecture	MDPI Future Internet Vol. 9, No. 3, pp. 27, June 2017.
Liu, X.	Trappe, W.	Journal Paper	Overlay Tunneling as a Policy Tool for Defending Mobile Ad Hoc Networks	Wiley Security and Communication Networks, Vol. 9, No. 17, pp. 4482-4494, November 2016.
Liu, Y.	Garnaev, A. and Trappe, W.	Journal Paper	Connectivity Jamming Game for Physical Layer Attack in Peer to Peer Networks	Wiley Security and Communication Networks, Vol. 9, No. 18, pp. 6080-6093, December 2016. CoRR abs/1711.10955 (2017)
Liu, Y.	Garnaev, A. and Trappe, W.	Conference Paper	Maintaining Throughput Network Connectivity in Ad Hoc Networks	Proceedings of 2016 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2016), Shanghai, March 2016, pp. 6380-6384.
Lodhi, M.A.	Bajwa, W.U.	Journal Paper	Detection Theory for Union of Subspaces	IEEE Transactions on Signal Processing, Vol. 66, No. 24, pp. 6347-6362, December 2018.
Lodhi, M.A.	Bajwa, W.U.	Conference Paper	Union of Subspaces Signal Detection in Subspace Interference	Proceedings of the IEEE Statistical Signal Processing Workshop (SSP 2018), Freiburg, Germany, June 2018, pp. 548-552.
Lodhi, M.A.	Dumas, J.P., Pierce, M.C., and Bajwa, W.U.	Conference Paper	Computational Imaging Through a Fiber-Optic Bundle	Proceedings of the SPIE Conference on Compressive Sensing VI, Anaheim, CA, April 2017, pp. 1-11.
Lodhi, M.A.	Voronin, S. and Bajwa, W.U.	Conference Paper	YAMPA: Yet Another Matching Pursuit Algorithm for Compressive Sensing	Proceedings of the SPIE Defense and Commercial Sensing Conference on Compressive Sensing, Baltimore MD, April 2016, pp. 1-18.
Lu, L.	Yu, J., Chen, Y. Zhu, Y. and Wang, Y.	Journal Paper	VocalLock: Sensing Vocal Tract for Passphrase-Independent User Authentication Leveraging Acoustic Signals on Smartphones	Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies, Vol. 4, No. 2, pp. 1-24, June 2020.
Lu, L.	Yu, J., Chen, Y., Zhu, Y., Li, M. and Xu, X.	Journal Paper	I3: Sensing Scrolling Human-Computer Interactions for Intelligent Interest Inference on Smartphones	Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies (IMWUT 2019), Vol. 3, No. 3, pp. 97:1-97:22, September 2019.
Lu, L.	Yu, J., Chen, Y., Zhu, Y., Xu, X., Xue, G. and Li, M.	Conference Paper	KeyListener: Inferring Keystrokes on QWERTY Keyboard of Touch Screen Through Acoustic Signals	Proceedings of the IEEE International Conference on Computer Communications (INFOCOM 2019), Paris, France, April/May 2019, pp. 775-783.
Lu, L.	Yu, J., Chen, Y., Liu, H., Zhu, Y., Kong, L. and Li, M.	Journal Paper	Lip Reading-Based User Authentication Through Acoustic Sensing on Smartphones	IEEE/ACM Transactions on Networking, Vol. 27, No. 1, pp. 447-460, February 2019.

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Author	Co-Authors	Paper/Talk	Title	Where/When
Lu, L.	Liu, J., Yu, J., Chen, Y., Zhu, Y., Xu, X. and Li, M.	Conference Paper	VPad: Virtual Writing Tablet for Laptops Leveraging Acoustic Signals	Proceedings of the 24 th IEEE International Conference on Parallel and Distributed Systems (ICPADS 2018), Singapore, December 2018, pp. 244-251.
Lu, L.	Yu, J., Chen, Y., Liu, H., Zhu, Y., Liu, Y. and Li, M.	Conference Paper	LipPass: Lip Reading-Based User Authentication on Smartphones Leveraging Acoustic Signals	Proceedings of the IEEE Conference on Computer Communications (INFOCOM 2018), Honolulu, HI, April 2018, pp. 1466-1474.
Maheshwari, S.	Netalkar, P.P. and Raychaudhuri, D.	Conference Paper	DISCO: Distributed Control Plane Architecture for Resource Sharing in Heterogeneous Mobile Edge Cloud Scenarios	Proceedings of the 40 th IEEE International Conference on Distributed Computing Systems (ICDCS 2020), Singapore, July 2020, pp. 519-529.
Maheshwari, S.	Zhang, W., Seskar, I., Zhang, Y. and Raychaudhuri, D.	Conference Paper	EdgeDrive: Supporting Advanced Driver Assistance Systems using Mobile Edge Clouds Networks	Proceedings of 2019 IEEE INFOCOM Workshops, Paris, France, April/May 2019, pp. 1-6.
Maheshwari, S.	Choudhury, S., Seskar, I. and Raychaudhuri, D.	Conference Paper	Traffic-Aware Dynamic Container Migration for Real-Time Support in Mobile Edge Clouds	Proceedings of the IEEE International Conference on Advanced Networks and Telecommunications Systems, Indore, India, December 2018, pp. 1-6.
Maheshwari, S.	Raychaudhuri, D., Seskar, I. and Bronzino, F.	Conference Paper	Scalability and Performance Evaluation of Edge Cloud Systems for Latency Constrained Applications	Proceedings of the ACM/IEEE Symposium on Edge Computing (SEC 2018), Bellevue, WA, October 2018, pp. 286-299.
Mathur, S.	Sagari, S., Amin, S., Ravindran, R., Saha, D., Seskar, I., Raychaudhuri, D. and Wang, G.	Demo Abstract	CDMA-Based IoT Services with Shared Band Operation of LTE in 5G	Proceedings of 2017 IEEE INFOCOM Workshops, Atlanta, GA, May 2017, pp. 958-959. CoRR abs/1705.06968 (2017)
Mathur, S.	Saha, D. and Raychaudhuri, D.	Conference Poster	Cross-Layer MAC/PHY Protocol to Support IoT Traffic in 5G	Proceedings of the 22 nd Annual International Conference on Mobile Computing and Networking (MobiCom 2016), New York, NY, October 2016, pp. 467-468.
Mhaske, S.	Kee, H., Ly, T., Aziz, A. and Spasojevic, P.	Journal Paper	FPGA-Based Channel Coding Architectures for 5G Wireless Using High-Level Synthesis	International Journal of Reconfigurable Computing, Vol. 2017, Article ID 3689308, pp. 1-23, June 2017.
Mhaske, S.	Spasojevic, P.	Conference Paper	On Forward Error Correction	Proceedings of the 5G Initiative-5G Roadmap Workshop, in conjunction with GLOBECOM 2016, Washington, DC, December 2016.
Mhaske, S.	Spasojevic, P., Aziz, A. and Gul, M.	Conference Paper	Link Quality Analysis in the Presence of Blockages for Analog Beamformed mm-wave Channel	Proceedings of the 2016 IEEE Military Communications Conference (MILCOM 2016), Baltimore, MD, November 2016, pp: 219-224.
Mhaske, S.	Kee, H., Ly, T. and Spasojevic, P.	Conference Paper	FPGA-Accelerated Simulation of a Hybrid-ARQ System using High Level Synthesis	Proceedings of the 37 th IEEE Sarnoff Symposium, Newark, NJ, September 2016, pp. 19-21.
Min, M.	Xiao, L., Xie, C., Hajimirsadeghi, M. and Mandayam, N.B.	Journal Paper	Defense Against Advanced Persistent Threats in Dynamic Cloud Storage: A Colonel Blotto Game Approach	IEEE Journal of Internet of Things (IoT), Vol. 5, No. 6, pp. 4250-4261, December 2018. CoRR abs/1801.06270 (2018)

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Author	Co-Authors	Paper/Talk	Title	Where/When
Min, M.	Xiao, L., Xie, C., Hajimirsadeghi, M. and Mandayam, N.B.	Conference Paper	Defense Against Advanced Persistent Threats: A Colonel Blotto Game Approach	Proceedings of the 2017 IEEE International Conference on Communications (ICC 2017), Paris, France, May 2017, pp. 1-6
Ming, J.	Verner, E., Sarwate, A.D., Kelly, R., Reed, C., Kahleck, T., Silva, R, Panta, S., Turner, J., Plis, S. and Calhoun, V.	Journal Paper	COINSTAC: Decentralizing the Future of Brain Imaging Analysis	F1000Research Vol.6 No. 1512, August 2017.
Miyano, K.	Shinkuma, R., Mandayam, N.B., Sato, T. and Oki, E.	Journal Paper	Utility Based Scheduling for Multi-UAV Search Systems in Disaster-Hit Areas	IEEE Access, Vol. 7, February/March 2019, pp. 26810-26820.
Mokhtar, M.	Hamila, R., Bajwa, W.U. and Al-Dahir, N.	Conference Paper	Deterministic Measurement Procedures for Diagnosis of Massive Uniform Linear Antenna Arrays	Proceedings of the 2016 IEEE Global Conference on Signal and Information Processing (GlobalSIP 2016), Washington, DC, December 2016, pp. 1388-1392.
Mueller-Smith, C.	Spasojevic, P.	Conference Paper	Spectrum Activity Estimation by Partition-Blind Block Partitioned Tensor Decomposition	Proceedings of the 7 th IEEE Global Conference on Signal and Information Processing (GlobalSIP 2019), Ottawa, Canada, November 2019, pp. 1-5.
Mueller-Smith, C.	Spasojevic, P.	Conference Paper	Column-Wise Symmetric Block Partitioned Tensor Decomposition	Proceedings of the 41 st International Conference on Acoustics, Speech and Signal Processing (ICASSP 2016), Shanghai, China, March 2016, pp. 2956-2960.
Mukherjee, S.	Ravindran, R. and Raychaudhuri, D.	Conference Paper	A Distributed Core Network Architecture for 5G Systems and Beyond.	Proceedings of the ACM SIGCOMM 2018 Workshop on Networking for Emerging Applications and Technologies (NEAT 2018), Budapest, Hungary, August 2018, pp. 33-38.
Mukherjee, S.	Sriram, S., Vu, T. and Raychaudhuri, D.	Journal Paper	EIR: Edge-Aware Inter-Domain Routing Protocol for the Future Mobile Internet	Elsevier "Computer Networks" Vol. 127, pp.13-30, November 2017.
Mukherjee, S.	Sriram, S. and Raychaudhuri, D.	Conference Paper	Edge-Aware Inter-Domain Routing for Realizing Next-Generation Mobility Services	Proceedings of the 2017 International Communications Conference (ICC 2017), Paris, France, May 2017, pp.1-6.
Mukherjee, S.	Karimi, P., Bronzino, F. and Raychaudhuri, D.	Conference Paper	Enabling Advanced Network Services in the Future Internet using Named Object Identifiers and Global Name Resolution	Proceedings of the 10 th International Conference on Communication Theory, Reliability and Quality of Service, Venice, Italy, April 2017, pp. 29-34.
Mukherjee, S.	Bronzino, F., Srinivasan, S., Chen, J. and Raychaudhuri, D.	Conference Paper	Achieving Scalable Push Multicast Services Using Global Name Resolution	Proceedings of the IEEE Global Telecommunications Conference (GLOBECOM 2016), Washington, DC, December 2016.
Najm, E.	Yates, R.D. and Soljanin, E.	Conference Paper	Status Updates through M/G/1/1 Queues with HARQ	Proceedings of the IEEE International Symposium on Information Theory (ISIT 2017), Aachen, Germany, June 2017, pp. 131-135. CoRR abs/1704.03937 (2017)
Nakauchi, K.	Bronzino, F., Shoji, Y., Seskar, I. and Raychaudhuri, D.	Conference Paper	vMCN: Virtual Mobile Cloud Network for Realizing Scalable, Real-Time Cyber Physical Systems	Proceedings of the Workshop on Distributed Cloud Computing (DCC), Chicago, IL, July 2016, pp.2:1-2:6.

List of WINLAB Faculty and Students Peer Reviewed Publications (...continued)

(2016 – 2021)

Author	Co-Authors	Paper/Talk	Title	Where/When
Netalkar, P.	Maheshwari, S., Raychaudhuri, D.	Conference Paper	Evaluation of Network Assisted Handoffs in Heterogeneous Networks	Proceedings of the 29 th International Conference on Computer Communications and Networks (ICCCN 2020), held virtually August 2020, pp. 1-9.
Nguyen, P.	Muncuk, U., Ashok, A., Chowdhury, K.R., Gruteser, M. and Vu, T.	Conference Paper	Battery-Free Identification Token for Touch Sensing Devices	Proceedings of the 14 th ACM Conference on Embedded Networked Sensor Systems (SenSys 2016), Stanford, CA, November 2016, pp. 109-122.
Nguyen, V.	Rupavatharam, S., Liu, L., Howard, R.E. and Gruteser, M.	Conference Paper	HandSense: Capacitive Coupling-Based Dynamic, Micro Finger Gesture Recognition	Proceedings of the 17 th ACM Conference on Embedded Networked Sensor Systems (SenSys 2019), New York, NY, November 2019, pp. 285-297.
Nguyen, V.	Ibrahim, M., Truong, H., Nguyen, P., Gruteser, M., Howard, R.E. and Vu, T.	Conference Paper	Body-Guided Communications: A Low-Power, Highly-Confined Primitive to Track and Secure Every Touch	Proceedings of the 24 th Annual International Conference on Mobile Computing and Networking (MobiCom 2018), New Delhi, India, October/November 2018, pp. 353-368.
Nguyen, V. and Ibrahim, M.	Rupavatharam, S., Jawahar, M., Gruteser, M. and Howard, R. E.	Conference Paper	EyeLight: Light-and-Shadow-Based Occupancy Estimation and Room Activity Recognition	Proceedings of the IEEE International Conference on Computer Communications (INFOCOM 2018), Honolulu, HI, April 2018, pp. 351-359.
Nguyen, V.	Tang, Y., Ashok, A., Gruteser, M., Dana, K.J., Hu, W., Wengrowski, E. and Mandayam, N.B.	Conference Paper	High-Rate Flicker-Free Screen-Camera Communication with Spatially Adaptive Embedding	Proceedings of the IEEE Conference on Computer Communications (INFOCOM 2016), San Francisco, CA, April 2016, pp. 1-9.
Nikolakakis, K.E.	Kalogerias, D.S. and Sarwate, A.D.	Conference Paper	Learning Tree Structures from Noisy Data	Proceedings of the 22 nd International Conference on Artificial Intelligence and Statistics (AISTATS 2019), Naha, Okinawa, Japan, April 2019, pp. 1771-1782.
Nokleby, M.S.	Raja, H. and Bajwa, W.U.	Journal Paper	Scaling-Up Distributed Processing of Data Streams for Machine Learning	Proceedings of the IEEE, Vol. 108, No. 11, pp. 1984-2012, November 2020. CoRR abs/2005.08854 (2020)
Nokleby, M.S.	Bajwa, W.U.	Journal Paper	Stochastic Optimization from Distributed Streaming Data in Rate-Limited Networks	IEEE Transactions on Signal and Information Processing over Networks, Vol. 5, No. 1, pp. 152-167, March 2019. CoRR abs/1704.07888 (2017)
Nokleby, M.S.	Bajwa, W.U.	Conference Paper	Distributed Mirror Descent for Stochastic Learning Over Rate-Limited Networks	Proceedings of the 7 th IEEE International Workshop on Computational Advances in Multi-Sensor Adaptive Processing (CAMSAP 2017), Curaçao, Dutch Antilles, December 2017, pp. 1-5.
Nooraiepour, A.	Bajwa, W.U. and Mandayam, N.B.	Conference Paper	Hyphylearn: A Domain Adaptation-Inspired Approach to Classification Using Limited Number of Training Samples	Proceedings of the 31 st IEEE Machine Learning for Signal Processing (MLSP 2021) held virtually, October 2021, pp. 1-6.
Nooraiepour, A.	Bajwa, W.U. and Mandayam, N.B.	Journal Paper	Learning-Aided Physical Layer Attacks Against Multicarrier Communications in IoT	Transactions on Cognitive Communications and Networking, Vol. 7, No. 1, pp. 239-254, March 2021.
Nooraiepour, A.	Hamidouche, K., Bajwa, W.U. and Mandayam, N.B.	Conference Paper	How Secure are Multicarrier Communication Systems Against Signal Exploitation Attacks?	Proceedings of the 2018 IEEE Military Communications Conference (MILCOM 2018), Los Angeles, CA, October 2018, pp. 201-206.

List of WINLAB Faculty and Students Peer Reviewed Publications (...continued)

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Author	Co-Authors	Paper/Talk	Title	Where/When
Noori, M.	Soljanin, E. and Ardakani, M.	Conference Paper	On Storage Allocation for Maximum Service Rate in Distributed Storage Systems	Proceedings of the 2016 IEEE International Symposium on Information Theory (ISIT 2016), Barcelona, Spain, July 2016, pp. 240-244. CoRR abs/1605.03547 (2016)
Nurani-Krishnan, N.	Seskar, I. and Mandayam, N.B.	Conference Paper	On Enhancing Throughput Performance of Wi-Fi Networks: Combining Coordinated AP and mmWave Bands	Proceedings of the 18 th Annual Consumer Communications and Networking Conference held virtually, January 2021, pp. 1-4.
Nurani-Krishnan, N.	Torkildson, E., Mandayam, N.B., Raychaudhuri, D., Rantala, E-H., and Doppler, K.	Journal Paper	Optimizing Throughput Performance in Distributed MIMO Wi-Fi Networks Using Deep Reinforcement Learning	IEEE Transactions in Cognitive Communications and Networking, Vol. 6, No. 1, pp. 135-150, March 2020. CoRR abs/1812.06885 (2018)
Nurani-Krishnan, N.	Torkildson, E., Rantala, E., Seskar, I., Mandayam, N.B., and Doppler, K.	Conference Paper	D-MIMOO – Distributed MIMO for Office Wi-Fi Networks	Proceedings of the International Symposium on Dynamic Spectrum Access Networks (DySPAN 2018), Seoul, South Korea, October 2018, pp. 1-10.
Nurani-Krishnan, N.	Mandayam, N.B., Seskar, I. and Kompella, S.	Conference Paper	Experiment: Investigating Feasibility of Coexistence of LTE-U with a Rotating Radar in CBRS Bands	Proceedings of the IEEE 5G World Forum (WF-5G 2018), Santa Clara, CA, July 2018, pp. 65-70.
Nurani-Krishnan, N.	Kumbhkar, R., Mandayam, N., Seskar, I. and Kompella, S.	Conference Paper	How Close Can I Be? – A Comprehensive Analysis of Cellular Interference on ATC Radar	Proceedings of the 2017 IEEE Global Communications Conference (GLOBECOM 2017), Singapore, December 2017, pp.1-6. CoRR abs/1704.07491 (2017)
Nurani-Krishnan, N.	Kumbhkar, R., Mandayam, N.B., Seskar, I. and Kompella, S.	Conference Paper	Coexistence of Radar and Communication Systems in CBRS Bands Through Downlink Power Control	Proceedings of the 2017 IEEE Military Communications Conference (MILCOM 2017), Baltimore, MD, October 2017, pp. 713-718 CoRR abs/1705.03364 (2017)
Nurani-Krishnan, N.	Sridharan, G., Seskar, I. and Mandayam, N.B.	Conference Paper	Coverage and Rate Analysis of Super Wi-Fi Networks using Stochastic Geometry	Proceedings of the IEEE International Symposium of Dynamic Spectrum Access Networks (DySPAN 2017), Baltimore, MD, March 2017, pp. 1-10. CoRR abs/1704.08152 (2017)
Osang, G.	Cook, J., Fabrikant, A. and Gruteser, M.	Conference Paper	LiveTraVeL: Real-time Matching of Transit Vehicle Trajectories to Transit Routes at Scale	Proceedings of the 22 nd IEEE International Conference on Intelligent Transportation Systems (ITSC 2019), Auckland, NZ, October 2019, pp. 2244-2251.
Pandey, P.	Rahmati, M., Pompili, D. and Bajwa, W.U.	Conference Paper	Robust Distributed Dictionary Learning for In-Network Image Compression	Proceedings of the 15 th IEEE International Conference on Autonomic Computing (ICAC 2018), Trento, Italy, September 2018, pp. 61-70.
Parlak, S.	Marsic, I., Sarcevic, A., Bajwa, W.U., Waterhouse, L.J. and Burd, R.S.	Journal Paper	Passive RFID for Object and Use Detection during Trauma Resuscitation	IEEE Transactions on Mobile Computing, Vol. 15, No.4, pp. 924-937, April 2016.
Peng, P.	Soljanin, E. and Whiting, P.	Conference Paper	Diversity vs. Parallelism in Distributed Computing with Redundancy	Proceedings of the 2020 IEEE International Symposium on Information Theory (ISIT 2020), held virtually, Los Angeles, CA, June 2020, pp. 257-262.

List of WINLAB Faculty and Students Peer Reviewed Publications (...continued)

(2016 – 2021)

Author	Co-Authors	Paper/Talk	Title	Where/When
Peng, P.	Melissaris, N., Soljanin, E., Lee, B., Fan, H. and Maliev, A.	Conference Paper	Stragglers for Covert Message Passing on Complete Graphs	Proceedings of the 57 th Annual Allerton, Conference on Communication, Control and Computing (Allerton 2017), Monticello, IL, September 2019, pp. 453-459. CoRR abs/1908.05570 (2019)
Peng, P.	Soljanin, E.	Conference Paper	On Distributed Storage Allocations of Large Files for Maximum Service Rate	Proceedings of the 56 th Annual Allerton Conference on Communication, Control and Computing (Allerton 2018), Monticello, IL, October 2018, pp. 784-791. CoRR abs/1805.07545 (2018)
Pilgrim, R.	Zhu, J., Baron, D. and Bajwa, W.U.	Conference Paper	Generalized Geometric Programming for Rate Allocation in Consensus	Proceedings of the 55 th Annual Allerton, Conference on Communication, Control and Computing (Allerton 2017), Monticello, IL, October 2017, pp. 374-381. CoRR abs/1710.09041 (2017)
Plis, S.	Sarwate, A.D., Wood, D., Dieringer, C., Landis, D., Reed, C., Panta, S.R., Turner, J.A., Shoemaker, J.M., Carter, K.W., Thompson, P., Hutchison, K. and Calhoun, V.D.	Journal Paper	COINSTAC: A Privacy Enabled Model and Prototype for Leveraging and Processing Decentralized Brain Imaging Data	Frontiers in Neuroscience, Vol. 10, No. 365, pp. 1-20, August 2016.
Ponnaluri, S.P.	Azimi-Sadjadi, B., Hue, Y-K., Erpek, T., Komae, A. and Trappe, W.	Conference Paper	A Practical Wireless Reciprocity-Aware Key Establishment Protocol	Proceedings of the 35 th IEEE Military Communications Conference (MILCOM 2016), Baltimore, MD, November 2016, pp. 1107-1113.
Popovic, N.	Stanojevic, M. and Seskar, I.	Conference Paper	An Optimal Placement of ADMS in Cloud Data Center	Proceedings of the 18 th IEEE International Conference on Smart Technologies, (EUROCON 2019), Novi Sad, Serbia, July 2019, pp. 1-5.
Popovic, N.	Popovic, D.S. and Seskar, I.	Journal Paper	A Novel Cloud-Based Advanced Distribution Management System Solution	IEEE Transactions on Industrial Informatics, Vol. 14, No.8, pp. 3469-3476, August 2018.
Qiu, H.	Ahmad, F., Bai, F., Gruteser, M. and Govindan, R.	Journal Paper	Augmented Vehicular Reality: Enabling Extended Vision for Future Automobiles	ACM GetMobile: Mobile Computing and Communications, Vol. 22, No. 4, pp. 30-34, December 2018.
Qiu, H.	Ahmad, F., Bai, F., Gruteser, M. and Govindan, R.	Conference Paper	AVR: Augmented Vehicular Reality	Proceedings of the 16 th Conference on Mobile Systems, Applications and Services (ACM MobiSys 2018), Munich, Germany, June 2018, pp. 81-95.
Qiu, H.	Chen, J., Jain, S., Jiang, Y., McCartney, M., Kar, G., Bai, F., Grimm, D., Gruteser, M. and Govindan, R.	Journal Paper	Towards Robust Vehicular Context Sensing	IEEE Transactions on Vehicular Technology, Vol. 67, No. 3, pp. 1909-1922, March 2018.
Qiu, H.	Ahmad, F., Govindan, R., Gruteser, M., Bai, F. and Gruteser, M.	Conference Paper	Augmented Vehicular Reality: Enabling Extended Vision for Future Vehicles	Proceedings of the 18 th ACM International Workshop on Mobile Computing Systems and Applications (HotMobile 2017), Sonoma, CA, February 2017, pp. 67-72.

List of WINLAB Faculty and Students Peer Reviewed Publications (...continued)

(2016 – 2021)

Author	Co-Authors	Paper/Talk	Title	Where/When
Raja, H.	Bajwa, W.U. and Ahmad, F.	Conference Paper	Through-the-Wall radar Imaging Using a Distributed Quasi-Newton Method	Proceedings of the 2017 Asilomar Conference on Signals, Systems and Computers (ACSSC 2017), Pacific Grove, CA, October/November 2017, pp. 85-89.
Raja, H.	Bajwa, W.U.	Conference Paper	Recent Developments in Distributed Dictionary Learning	Proceedings of the 51 st Conference on Information Sciences and Systems (CISS 2017), Baltimore, MD, March 2017, pp. 1.
Raja, H.	Bajwa, W., Ahmad, F., and Amin, M.G.	Conference Paper	Parametric Dictionary Learning for TWRI Using Distributed Particle Swarm Optimization	Proceedings of the IEEE Radar Conference, Philadelphia, PA, May 2016, pp. 1-5.
Raja, H.	Bajwa, W.U.	Conference Paper	Learning Overcomplete Representations from Distributed Data: A Brief Review	Proceedings of the SPIE Defense and Commercial Sensing Conference on Compressive Sensing, Baltimore MD, April 2016, pp. 1-14.
Raja, H.	Bajwa, W.U.	Journal Paper	Cloud K-SVD: A Collaborative Dictionary Learning Algorithm for Big, Distributed Data	IEEE Transactions on Signal Processing, Vol. 64, No. 1, pp. 173-188, January 2016.
Rao, C.R.	Dagefu, F.T., Verma, G., Spasojevic, P. and Sadler, B.M.	Conference Paper	Scalable Sporadic Medium Access for Complex Propagation Environments	Proceedings of the 29 th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC 2018), Bologna, Italy, September 2018, pp. 1-7.
Raychaudhuri, D.	Seskar, I., Zussman, G., Korakis, T., Kilper, D., Chen, T., Kolodziejcki, J., Sherman, M., Kostic, Z., Gu, X., Krishnaswamy, H., Maheshwari, S., Skrimponis, P. and Gutterman, C.	Conference Paper	Challenge: COSMOS: A City-Scale Programmable Testbed for Experimentation with Advanced Wireless	Proceedings of the 26 th Annual International Conference on Mobile Computing and Networking (MobiCom 2020), presented virtually from London, United Kingdom, September 2020, pp. 14:1-14:13.
Raychaudhuri, D.	Seskar, I. and Ott, M.	Book Chapter	ORBIT: Wireless Experimentation	“The GENI Book” Springer 2016, pp. 63-95.
Ren, Y.	Wang, Z. Wang, Y., Tan, S., Chen, Y. and Yang, J.	Conference Paper	3D Human Pose Estimation Using WiFi Signals	Proceedings of the 19 th ACM Conference on Embedded Networked Sensor Systems, held virtually from Coimbra, Portugal, November 2021, pp. 363-364.
Ren, Y.	Wen, P., Liu, H., Zheng, Z., Chen, Y.	Conference Paper	Proximity-Echo: Secure Two Factor Authentication Using Active Sound Sensing	Proceedings of the IEEE International Conference on Computer Communications (INFOCOM 2021), held virtually, May 2021, pp. 1-10.
Ren, Y.	Zheng, Z., Liu, H., Chen, Y. Li, H. and Wang, C.	Conference Paper	Breathing Sound-based Exercise Intensity Monitoring Via Smartphones	Proceedings of 31 st International Conference on Computer Communications and Networks (ICCCN 2021), held virtually from Athens, Greece, July 2021 pp. 1-10.
Ren, Y.	Wang, C., Chen, Y., Chuah, M.C. and Yang, J.	Journal Paper	Signature Verification Using Critical Segments for Securing Mobile Transactions	IEEE Transactions on Mobile Computing, Vol. 19, No. 3, pp. 724-739, March 2020.
Ren, Y.	Wang, C., Chen, Y., Yang, J. and Li, H.	Journal Paper	Noninvasive Fine-Grained Sleep Monitoring Leveraging Smartphones	IEEE Internet of Things Journal, Vol. 6, No. 5, pp. 8248-8261, October 2019.
Rostami, A.	Cheng, B., Lu, H., Kenney, J.B. and Gruteser, M.	Conference Paper	A Multi-Rate Congestion Controller for Pedestrian Communication	Proceedings of the 2019 IEEE Vehicular Networking Conference (VNC 2019), Los Angeles, CA, December 2019, pp. 1-8.
Rostami, A.	Cheng, B., Lu, H., Kenney, J.B. and Gruteser, M.	Conference Paper	A Light-Weight Smartphone GPS Error Model for Simulation	Proceedings of the 90 th IEEE Vehicular Technology Conference (VTC 2019 – Fall), Honolulu, HI, September 2019, pp. 1-5.

List of WINLAB Faculty and Students Peer Reviewed Publications (...continued)

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Author	Co-Authors	Paper/Talk	Title	Where/When
Rostami, A.	Cheng, B., Lu, H., Gruteser, M. and Kenney, J.B.	Conference Paper	Reducing Unnecessary Pedestrian-to-Vehicle Transmissions using a Contextual Policy	Proceedings of the CarSys 2017 Workshop held in conjunction with MobiCom 2017, Snowbird, UT, October 2017, pp.3-10.
Rostami, A.	Cheng, B., Lu, H., Kenney, J.B. and Gruteser, M.	Conference Paper	Performance and Channel Load Evaluation for Contextual Pedestrian-to-Vehicle Transmissions	Proceedings of the CarSys 2016 Workshop held in conjunction with MobiCom 2016, New York, NY, October 2016, pp. 22-29.
Rostami, A.	Cheng, B., Bansal, G., Sjöberg, K., Gruteser, M. and Kenney, J.B.	Journal Paper	Stability Challenges and Enhancements for Vehicular Channel Congestion Control Approaches	IEEE Transactions on Intelligent Transportation Systems, Vol. 17, No. 10, pp. 2935-2948, January 2016.
Rupavatharam, S.	Gruteser, M.	Conference Paper	Towards In-Ear Inertial Jaw Clenching Detection	Proceedings of the 2019 ACM International Joint Conference on Pervasive and Ubiquitous Computing (UbiComp 2019), London, UK, September 2019, pp. 54-55.
Saad, W.	Glass, A., Mandayam, N.B. and Poor, H. V.	Journal Paper	Toward a Consumer-Centric Grid: A Behavioral Perspective	Proceedings of the IEEE, Vol. 104. No. 4, pp. 865-882, April 2016.
Sagari, S.	Mathur, S., Saha, D., Amin, S.O., Ravindran, R., Seskar, I., Raychaudhuri, D. and Wang, G.	Conference Paper	Realization of CDMA-Based IoT Services with Shared Band Operation of LTE in 5G	Proceedings of the ACM SIGCOMM Conference (SIGCOMM 2017), Los Angeles, CA, August 2017, pp. 37-42. CoRR abs/1705.06969 (2017)
Seskar, I.	Raychaudhuri, D. and Gosain, A.	Book Chapter	4G Cellular Systems in GENI	“The GENI Book” Springer 2016, pp. 179-201.
Shakeri, Z.	Taki, B., de Almeida, A.L.F., Ghassemi, M. and Bajwa, W.U.	Conference Paper	Revisiting Sparse Channel Estimation in Massive MIMO-OFDM Systems	Proceedings of the 20 th IEEE International Workshop on Signal Processing Advances in Wireless Communications (SPAWC 2019), Cannes, France, July 2019, pp. 1-5.
Shakeri, Z.	Sarwate, A.D. and Bajwa, W.U.	Journal Paper	Identifiability of Kronecker-Structured Dictionaries for Tensor Data	IEEE Journal of Selected Topics in Signal Processing, Vol. 12, No. 5, pp. 1047-1062, October 2018. CoRR abs/1712.03471 (2017)
Shakeri, Z.	Bajwa, W.U. and Sarwate, A.D.	Journal Paper	Minimax Lower Bounds on Dictionary Learning for Tensor Data	IEEE Transactions on Information Theory, Vol. 64, No. 4, pp. 2706-2726, April 2018. CoRR abs/1608.02792 (2016)
Shakeri, Z.	Sarwate, A.D. and Bajwa, W.U.	Conference Paper	Identification of Kronecker-Structured Dictionaries: An Asymptotic Analysis	Proceedings of the 7 th IEEE International Workshop on Computational Advances in Multi-Sensor Adaptive Processing (CAMSAP 2017), Curaçao, Dutch Antilles, December 2017, pp. 1-5.
Shakeri, Z.	Bajwa, W.U. and Sarwate, A.D.	Conference Paper	Minimax Lower Bounds for Dictionary Learning from Tensor Data	Proceedings of the Workshop on Signal Processing with Adaptive Sparse Structured Representations (SPARS 2017), June 2017.
Shakeri, Z.	Bajwa, W.U. and Sarwate, A.D.	Conference Paper	Sample Complexity Bounds for Dictionary Learning of Tensor Data	Proceedings of the 42 nd IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2017), New Orleans, LA, March 2017, pp. 4501-4505.
Shakeri, Z.	Bajwa, W.U.	Conference Paper	Revisiting Maximal Response-Based Local Identification of Overcomplete Dictionaries	Proceedings of the 9 th IEEE Sensor Array and Multichannel Signal Processing Workshop (SAM 2016), Rio de Janeiro, Brazil, July 2016, pp. 1-5.

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Author	Co-Authors	Paper/Talk	Title	Where/When
Shakeri, Z.	Bajwa, W.U. and Sarwate, A.D.	Conference Paper	Minimax Lower Bounds for Kronecker-Structured Dictionary Learning	Proceedings of the 2016 IEEE International Symposium on Information Theory (ISIT 2016), Barcelona, Spain, July 2016, pp. 1148-1152. CoRR abs/1605.05284 (2016)
Shi, C.	Liu, J., Liu, H. and Chen, Y.	Journal Paper	Wi-Fi Enabled User Authentication through Deep Learning in Daily Activities	ACM Transactions on Internet of Things, Vol. 2, No.2, pp. 13:1-13:25, May 2021.
Shi, C.	Wang, Y., Chen, Y., and Saxena, N.	Journal Paper	Authentication of Voice Commands by Leveraging Vibrations in Wearables	IEEE Security & Privacy, Vol. 19, No. 6, pp. 83-92, November/December 2021.
Shi, C.	Wang, Y., Chen, Y., Saxena, N. and Wang, C.	Conference Paper	WearID: Low-Effort Wearable-Assisted Authentication of Voice Commands via Cross-Domain Comparison without Training	Proceedings of the Annual Computer Security Applications Conference (ACSAC 2020), Virtual Event from Austin, TX, December 2020, pp. 829-842.
Shi, C.	Guo, X., Yu, T., Chen, Y., Xie, Y. and Liu, J.	Conference Paper	Mobile Device Usage Recommendation Based on User Context Inference Using Embedded Sensors	Proceedings of the 29 th International Conference on Computer Communications and Networks (ICCCN 2020), Virtual Event, August 2020, pp. 1-9.
Shi, C.	Esposito, J., Mathew, S., Patel, A., Sakhujia, R., Liu, J. and Chen, Y.	Conference Demo	Device-Free Activity Monitoring Through Real-Time Analysis on Prevalent WiFi Signals	Proceedings of the IEEE International Symposium on Dynamic Spectrum Access Networks (DySPAN 2019), Newark, NJ, November 2019, pp. 1-2.
Shi, C.	Liu, J., Liu, H. and Chen, Y.	Conference Paper	Smart User Authentication through Actuation of Daily Activities Leveraging WiFi-Enabled IoT	Proceedings of the 18 th International Symposium on Mobile Ad Hoc Networking and Computing (ACM MobiHoc 2017), Madras, Chennai, India, July 2017, pp. 5:1-5:10.
Shinkuma, R.	Mandayam, N.B.	Conference Paper	Design of Ad Hoc Wireless Mesh Networks Formed by Unmanned Aerial Vehicles with Advanced Mechanical Automation	Proceedings of the 16 th International Conference on Distributed Computing in Sensor Systems (DCOSS 2020), Virtual event, June 2020, pp. 288-295.
Shreedhar, T.	Kaul, S.K. and Yates, R.D.	Conference Paper	An Empirical Study of Ageing in the Cloud	Proceedings of the IEEE International Conference on Computer Communications (INFOCOM Workshops 2021) held virtually, May 2021, pp. 1-6. CoRR abs/2103.07797 (2021)
Shreedhar, T.	Kaul, S.K. and Yates, R.D.	Conference Paper	An Age Control Transport Protocol for Delivering Fresh Updates in the Internet-of-Things	Proceedings of the 20 th IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks (WOWMOM 2019), Washington, DC, June 2019, pp. 1-7.
Shreedhar, T.	Kaul, S.K. and Yates, R.D.	Conference Paper	ACP: Age Control Protocol for Minimizing Age of Information over the Internet	Proceedings of the 24 th Annual International Conference on Mobile Computing and Networking (MobiCom 2018), New Delhi, India, Oct/Nov 2018, pp. 699-701.
Singh, V.K.	André, E., Boll, S., Hildebrandt, M. and Shamma, D.A.	Journal Paper	Legal and Ethical Challenges in Multimedia Research	IEEE Multimedia, Vol. 27, No. 2, pp.46-54, April-June 2020.

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Author	Co-Authors	Paper/Talk	Title	Where/When
Singh, V.K.	Goyal, R. and Wu, S.	Journal Paper	Riskalyzer: Inferring Individual Risk – Taking Propensity Using Phone Metadata	Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies, Vol. 2, No. 1, Article 34, pp. 1-21, March 2018.
Singh, V.K.	Fernandes, D., Kankanhalli, D. and Haenselmann, T.	Journal Paper	Decoupled Multicamera Sensing for Flexible View Generation	Journal of Sensors, 501(8137859), pp. 1-13, January 2016.
Soljanin, E.	Winter, A.	Journal Paper	Introduction to the Special Issue on Quantum Information Science	IEEE Journal on Selected Areas in Information Theory, Vol. 1, No. 2, p. 350, August 2020.
Soljanin, E.		Journal Paper	Quantum Information Processing: An Essential Primer	IEEE Journal on Selected Areas in Information Theory, Vol. 1, No. 2, pp. 351-366, August 2020. CoRR abs/2006.15979 (2020)
Soltaniyeh, M.	Moutinho dos Reis, V.L., Bryson, M. Martin, R.P. and Nagarakatte, S.	Conference Paper	Near-Storage Acceleration of Database Query Processing with SmartSSDS	Proceedings of the 30 th IEEE International Symposium on Field-Programmable Custom Computing Machines (FCCM 2021), held virtually, May 2021, pg. 265.
Spasojevic, P.	Budisin, S.Z.	Conference Paper	Uniquely Generated Paraunitary-Based Complementary QAM Sequences	Proceedings of the 51 st Asilomar Conference on Signals, Systems and Computers (ACSSC 2017), Pacific Grove, CA, October/November 2017, pp. 1742-1746.
Sridharan, G.	Kumbhkar, R., Mandayam, N.B., Seskar, I. and Kompella, S.	Conference Paper	Physical-layer Security of NC-OFDM-Based Systems	Proceedings of IEEE Military Communications Conference (MILCOM 2016), Baltimore, MD, November 2016, pp.1101-1106.
Stojadinovic, D.	Netalkar, P.P., Caicedo, C.E., Kadota, I., Zussman, G. Seskar, I. and Raychaudhuri, D.	Conference Paper	A Spectrum Consumption Model-based Framework for DSA Experimentation on the COSMOS Testbed	To appear in the Proceedings of the 15 th ACM Workshop on Wireless Network Testbeds, Experimental Evaluation & Characterization (WiNTECH 2021) postponed in 2021 and now scheduled for 2/4/2022, New Orleans, LA, pp. 77-84.
Stojadinovic, D.	deFigueiredo, F.A.P., Maddala, P., Seskar, I. and Trappe, W.	Conference Paper	SC2 CIL: Evaluating the Spectrum Voxel Announcement Benefits	Proceedings of the IEEE International Symposium on Dynamic Spectrum Access Networks (DySPAN 2019), Newark, NJ, November 2019, pp. 1-6.
Su, K.	Ramakrishnan, K.K. and Raychaudhuri, D.	Conference Paper	Scalable, Network-Assisted Congestion Control for the MobilityFirst Future Internet Architecture	Proceedings of the 22 nd IEEE International Symposium on Local and Metropolitan Area Networks (LANMAN 2016), Rome, Italy, June 2016, pp. 1-2.
Sun, T.	Zhang, Y. and Trappe, W.	Journal Paper	Improving Access Point Association Protocols Through Channel Utilization and Adaptive Probing	IEEE Transactions on Mobile Computing, Vol. 15, No. 5, pp. 1157-1167, May 2016.
Sun, Y.	Uysal-Biyikoglu, E., Yates, R.D., Koksall, C.E. and Shroff, N.B.	Journal Paper	Update or Wait: How to Keep Your Data Fresh	IEEE Transactions on Information Theory, Vol. 63, No. 11, pp. 7492-7508, November 2017.
Sun, Y.	Uysal-Biyikoglu, E., Yates, R.D., Koksall, C.E. and Shroff, N.B.	Conference Paper	Update or Wait: How to Keep Your Data Fresh	Proceedings of the 35 th Annual IEEE International Conference on Computer Communications (INFOCOM 2016), San Francisco, CA, April 2016, pp. 1-9. CoRR abs/1601.02284 (2016)

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(2016 – 2021)

Author	Co-Authors	Paper/Talk	Title	Where/When
Tahmasbi, F.	Wang, Y., Chen, Y. and Gruteser, M.	Conference Poster	Your Phone Tells Us the Truth: Driver Identification Using Smartphone on One Turn	Proceedings of the 24 th Annual International Conference on Mobile Computing and Networking (MobiCom 2018), New Delhi, India, Oct/Nov 2018, pp. 762-764.
Tan, L.	Li, Y., Khisti, A. and Soljanin, E.	Journal Paper	Successive Segmentation-Based Coding for Broadcasting Over Erasure Channels	IEEE Transactions on Information Theory, Vol. 62, No. 6, pp. 3026-3038, June 2016.
Tang, H.	Ciblat, P., Wang, J., Wigger, M.A. and Yates, R.D.	Conference Paper	Age of Information Aware Cache Updating with File- and Age-Dependent Update Durations	Proceedings of the 18 th International Symposium on Modeling and Optimization in Mobile, Ad Hoc and Wireless Networks (WiOpt 2020), Volos, Greece, June 2020, pp. 1-6. CoRR abs/1909.05930 (2019)
Tang, H.	Ciblat, P., Wang, J., Wigger, M.A. and Yates, R.D.	Conference Paper	Cache Updating Strategy Minimizing the Age of Information with Time-Varying Files' Popularities	Proceedings of the IEEE Information Theory Workshop (ITW 2020), held virtually from Riva Del Garda, Italy, April 2020, pp. 1-5. CoRR abs/2020.04787 (2020)
Tang, Z.	Spasojevic, P., Koumpouzi, C. and Dagefu, F.T.	Conference Paper	Simultaneous Synchronization and Detection in Loosely Synchronized Tiny Packet Networks	Proceedings of the 40 th IEEE Sarnoff Symposium, Newark, NJ, September 2019, pp. 1-3.
Tavan, M.	Yates, R.D. and Raychaudhuri, D.	Conference Paper	Connected Vehicles under Information-Centric Architectures	Proceedings of the IEEE 2016 Vehicular Networking Conference (VNC 2016), Columbus, OH, December 2016, pp. 1-8.
Tavan, M.	Yates, R.D. and Raychaudhuri, D.	Conference Paper	Connected Vehicles under Named Object Architectures	Proceedings of the ACM International Workshop on Connected and Automated Vehicle Mobility (CarSys) held in conjunction with ACM MobiCom, New York, NY, October 2016, pp. 60-61.
Trappe, W.		Journal Paper	No Need for Speed: More Signal Processing Innovation is Required Before Adopting Automated Vehicles [In the Spotlight]	IEEE Signal Processing Magazine, Vol. 34, No. 2, pp. 124-122, March 2017.
Trappe, W.		Journal Paper	Data Treasure Hunters: Science Expanding to New Frontiers [In the Spotlight]	IEEE Signal Processing Magazine, Vol. 34, No. 1, pp. 116-115, January 2017.
Trappe, W.	Garnaev, A.	Conference Paper	Bargaining Over Secrecy and Reliability for Low SNR OFDM Communications	Proceedings of the IEEE Conference on Communications and Network Security (CNS 2016), Philadelphia, PA, October 2016, pp. 596-600.
Truong, H.	Nguyen, P., Nguyen, V., Ibrahim, M., Howard, R.E., Gruteser, M. and Vu, T.	Conference Paper	Through-Body Capacitive Touch Communication	Proceedings of the S3 Workshop, held in conjunction with ACM MobiCom 2017, Snowbird, UT, October 2017, pp. 7-9.
Ugalde, I.	Cheng, B., Rostami, A., Gruteser, M. and Ahmad, S.A.	Conference Paper	Repeatability of Vehicular Measurements on Public Roadways	Proceedings of the 11 th ACM Workshop on Wireless Network Testbeds, Experimental Evaluation and Characterization (WinTech 2017), held in conjunction with MobiCom 2017, Snowbird, UT, October 2017, pp. 25-32.

List of WINLAB Faculty and Students Peer Reviewed Publications (...continued)

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Author	Co-Authors	Paper/Talk	Title	Where/When
Vakil, V.	Trappe, W.	Journal Paper	Dosage Strategies for Delaying Resistance Emergence in Heterogeneous Tumors	FEBS Open Bio, Vol. 11, No. 5, May 2021, pp. 1322-1331.
Vakil, V.	Trappe, W.	Journal Paper	Drug-Resistant Cancer Treatment Strategies Based on the Dynamics of Clonal Evolution and PKPD Modeling of Drug Combinations	IEEE/ACM Transactions on Computational Biology and Bioinformatics, Early Access, December 2020.
Vakil, V.	Trappe, W.	Journal Paper	Drug Combinations: Mathematical Modeling and Networking Methods	Pharmaceutics 2019, Vol. 11, No. 5, Article 208, May 2019.
Varvello, M.	Laufer, R., Zhang, F. and Lakshman, T.V.	Conference Paper	Multi-Layer Packet Classification with Graphics Processing Units	IEEE/ACM Transactions on Networking, Vol.24, No. 5, pp.2728-2741, February 2016. Proceedings of the 10 th International Conference on Emerging Networking Experiments and Technologies (ACM CoNEXT), Sydney, Australia, December 2014, pp. 109-120.
Verma, G.	Dagefu, F., Sadler, B. and Spasojevic, P.	Conference Paper	Implications of Time/Frequency Synchronization Tradeoff of Quasi-Synchronous Multi-Carrier DS-CDMA for Robust Communications at Lower VHF	Proceedings of the 2016 Military Communications Conference (MILCOM 2016), Baltimore, MD, November 2016, pp. 694-699.
Visuri, A.	Ferreira, D., Pirttikangas, S., Kostakos, V., Synnes, K., Lindqvist, J. and Nishiyama, Y.	Conference Paper	UbiMI'17: Ubiquitous Mobile Instrumentation	Proceedings of the 2017 ACM International Joint conference on Pervasive and Ubiquitous Computing, Maui, HI, September 2017, pp. 448-451.
Wang, Chen	Wang, Y., Chen, Y., Liu, H. and Liu, J.	Journal Paper	User Authentication on Mobile Devices: Approaches, Threats and Trends	Elsevier, Computer Networks, Vol. 170, 107118, April 2020.
Wang, Chen	Anand, S.A., Liu, J., Walker, P., Chen, Y. and Saxena, N.	Conference Paper	Defeating Hidden Audio Channel Attacks on Voice Assistants Via Audio-Induced Surface Vibrations	Proceedings of the 2019 Annual Computer Security Applications Conference (ACSAC 2019), San Juan, Puerto Rico, December 2019, pp. 42-56.
Wang, Chen	Liu, J. Guo, X., Wang, Y and Chen, Y.	Conference Paper	WristSpy: Snooping Passcodes in Mobile Payment Using Wrist-Worn Wearables	Proceedings of the IEEE International Conference on Computer Communications (INFOCOM 2019), Paris, France, April/May 2019, pp. 2071-2079.
Wang, Chen	Liu, J., Guo, X., Wang, Y. and Chen, Y.	Conference Poster	Inferring Mobile Payment Passcodes Leveraging Wearable Devices	Proceedings of the 24 th Annual International Conference on Mobile Computing and Networking (MobiCom 2018), New Delhi, India, Oct/Nov 2018, pp. 789-791.
Wang, Chen	Liu, J., Chen, Y., Liu, H. and Wang, Y.	Conference Paper	Towards In-Baggage Suspicious Object Detection Using Commodity WiFi	Proceedings of the 6 th Annual IEEE Conference on Communications and Network Security (CNS 2018), Beijing, China, May/June 2018, pp. 1-9.
Wang, Chen	Guo, X., Chen, Y., Wang, Y. and Liu, B	Journal Paper	Personal PIN Leakage from Wearable Devices	IEEE Transactions on Mobile Computing, Vol. 17, No. 3, pp. 646-660, March 2018.

List of WINLAB Faculty and Students Peer Reviewed Publications (...continued)

(2016 – 2021)

Author	Co-Authors	Paper/Talk	Title	Where/When
Wang, Chen	Zheng, X., Chen, Y. and Yang, J.	Journal Paper	Locating Rogue Access Point Using Fine-Grained Channel Information	IEEE Transactions on Mobile Computing, Vol. 16, No. 9, pp. 2560-2573, September 2017.
Wang, Chen	Wang, C., Chen, Y., Xie, L. and Lu, S.	Conference Paper	Smartphone Privacy Leakage of Social Relationships and Demographics from Surrounding Access Points	Proceedings of the 37 th IEEE International Conference on Distributed Computing Systems (ICDCS 2017), Atlanta, GA, June 2017, pp. 678-688.
Wang, Chen	Guo, X., Wang, Y., Chen, Y. and Liu, B.	Conference Paper	Friend or Foe?: Your Wearable Devices Reveal Your Personal PIN	Proceedings of the 11 th ACM Asia Conference on Computer and Communications Security (AsiaCCS 2016), Xi'an, China, May/June 2016, pp. 189-200.
Wang, Chuyu	Xie, L., Wang, W., Chen, Y. Xue, T. and Lu, S.	Journal Paper	Probing into the Physical Layer: Moving Tag Detection for Large-Scale RFID Systems	IEEE Transactions on Mobile Computing, Vol. 19, No. 5, pp. 1200-1215, May 2020.
Wang, Chuyu	Xie, L., Wang, W., Chen, Y., Bu, Y. and Lu, S.	Journal Paper	RF-ECG: Heart Rate Variability Assessment Based on COTS RFID Tag Array	ACM Interactive, Mobile, Wearable and Ubiquitous Technologies, Vol. 2, Issue 2, pp. 85:1-85:26, July 2018.
Wang, Chuyu	Liu, J., Chen, Y., Liu, H., Xie, L., Wang, W., He, B. and Lu, S.	Conference Paper	Multi-Touch in the Air: Device-Free Finger Tracking and Gesture Recognition via COTS RFID	Proceedings of the IEEE Conference on Computer Communications (INFOCOM 2018), Honolulu, HI, April 2018, pp. 1691-1699.
Wang, Chuyu	Liu, J., Chen, Y., Xie, L., Liu, H. and Lu, S.	Journal Paper	RF-Kinect: A Wearable RFID-Based Approach Towards 3D Body Movement Tracking	ACM Interactive, Mobile, Wearable and Ubiquitous Technologies, Vol. 2, Issue 1, pp. 41:1-41:28, March 2018.
Wang, Y.	Zhao, T., Tahmasbi, F., Cheng, J., Chen, Y. and Yu, J.	Conference Paper	Driver Identification Leveraging Single-Turn Behaviors Via Mobile Devices	Proceedings of the 29 th International Conference on Computer Communications and Networks (ICCCN 2020), Virtual Event, August 2020, pp. 1-9.
Wang, Y.	Chen, Y., Ye, F., Liu, H. and Yang, J.	Journal Paper	Implications of Smartphone User Privacy Leakage from the Advertiser's Perspective	Elsevier "Pervasive and Mobile Computing", Vol. 53, pp. 13-32, February 2019.
Wang, Y.	Saad, W., Mandayam, N.B. and Poor, H.V.	Journal Paper	Load Shifting in the Smart Grid: To Participate or Not?	IEEE Transactions on Smart Grids, Vol. 7, No. 6, pp. 2604-2614, November 2016.
Wang, Y.	Chen, Y., Yang, J., Gruteser, M., Martin, R.P., Liu, H., Liu, L. and Karatas, C.	Journal Paper	Determining Driver Phone Use by Exploiting Smartphone Integrated Sensors	IEEE Transactions on Mobile Computing, Vol. 15, No. 8, pp. 1965-1981, January 2016.
Wang, Z.	Ren, Y., Chen, Y. and Yang, J.	Conference Paper	Earable Authentication via Acoustic Toothprint	Proceedings of 16 th ACM ASIA Conference on Computer and Communications Security (AsiaCCS 2021), held virtually from Hong Kong, June 2021, pp. 2390-2392.
Wang, Z.	Cao, Y., Kong, L., Chen, G., Yu, J., Tang, S. and Chen, Y.	Journal Paper	Reference Waveforms Forward Concurrent Transmissions in ZigBee Communications	IEEE/ACM Transactions on Networking, Vol. 28, No. 4, pp. 1629-1642, August 2020.
Wang, Z. J.	Trappe, W. and Cui, S.	Journal Paper	A Feature Article Cluster on Brain Signal Analytics: Analytical Approaches to Enhanced Understanding of Brain Function [From the Editors]	IEEE Signal Processing Magazine, Vol. 33, No. 3, pp. 12-13, May 2016.

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Author	Co-Authors	Paper/Talk	Title	Where/When
Wei, L.	Sarwate, A.D., Corander, J., Hero III, A.O. and Tarokh, V.	Conference Paper	Analysis of a Privacy-Preserving PCA Algorithm Using Random Matrix Theory	Proceedings of the 2016 IEEE Global Conference on Signal and Information Processing (GlobalSIP 2016), Washington, DC, December 2016, pp. 1335-1339.
Wengrowski, E.	Dana, K.J., Gruteser, M. and Mandayam, N.B.	Conference Paper	Reading between the Pixels: Photographic Steganography for Camera Display Messaging	Proceedings of the 13 th International Conference on Computational Photography (ICCP 2017), Stanford, CA, May 2017, pp. 95-105. CoRR abs/1604.01720 (2016)
Wengrowski, E.	Yuan, W., Dana, K.J., Ashok, A., Gruteser, M. and Mandayam, N.B.	Conference Paper	Optimal Radiometric Calibration for Camera-Display Communication	Proceedings of the Winter Conference on Applications of Computer Vision (WACV 2016), Lake Placid, NY, March 2016, pp. 1-10.
Wojtalewicz, N.P.	Silva, R.F., Calhoun, V.D., Sarwate, A.D. and Plis, S.M.	Conference Paper	Decentralized Independent Vector Analysis	Proceedings of the 42 nd IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2017), New Orleans, LA, March 2017, pp. 826-830.
Wu, T.	Aldeer, M., Chowdhury, T., Haynes, A., Nikseresht, F., Varnosfaderani, M.P., Gao, J., Heydarian, A., Campbell, B. and Ortiz, J.	Conference Paper	The Smart Building Privacy Challenge	Proceedings of the 8 th ACM International Conference on Systems for Energy-Efficient Built Environments (BuildSys@SenSys 2021), November 2021, pp. 238-239.
Wu, T.	Martelaro, N., Stent, S., Ortiz, J. And Ju, W.	Journal Paper	Learning When Agents Can Talk to Drivers using the INAGT Dataset and Multisensor Fusion	Proceedings of the ACM Interactive Mobile Wearable Ubiquitous Technologies (IMWUT) Vol. 5, No. 3, pp. 133:1-133:28, September 2021.
Wu, T.	Ortiz, J.	Conference Paper	Towards Adaptive Anomaly Detection in Buildings with Deep Reinforcement Learning	Proceedings of the 6 th ACM International Conference on Systems for Energy-Efficient Buildings, Cities and Transportation (BuildSys 2019), New York, NY, November 2019, pp. 380-382
Wu, T.	Bajwa, W.U.	Journal Paper	A Low Tensor-Rank Representation Approach for Clustering of Imaging Data	IEEE Signal Processing Letters, Vol. 25, No. 8, pp. 1196-1200, August 2018.
Wu, T.	Gurram, P., Rao, R.M. and Bajwa, W.U.	Conference Paper	Human Action Attribute Learning Using Low-Rank Representations	Proceedings of the Workshop on Signal Processing with Adaptive Sparse Structured Representations (SPARS 2017), Lisbon, Portugal, June 2017.
Wu, T.	Gurram, P., Rao, R.M. and Bajwa, W.U.	Conference Paper	Clustering-Aware Structure-Constrained Low-Rank Representation Model for Learning Human Action Attributes	Proceedings of the 12 th Image, Video and Multidimensional Signal Processing Workshop (IVMSP 2016), Bordeaux, France, July 2016, pp. 1-5.
Wu, Y.	Xu, X., Walker, P.R., Liu, J., Saxena, S., Chen, Y. and Yu, J.	Conference Paper	HVAC: Evading Classifier-based Defenses in Hidden Voice Attacks	Proceedings of 16 th ACM ASIA Conference on Computer and Communications Security (AsiaCCS 2021), held virtually from Hong Kong, June 2021, pp. 82-94.
Wu, Y.	Liu, J., Chen, Y. and Cheng, J.	Conference Paper	Semi-Black-Box Attacks Against Speech Recognition Systems Using Adversarial Samples	Proceedings of the IEEE International Symposium on Dynamic Spectrum Access Networks (DySPAN 2019), Newark, NJ, November 2019, pp. 1-5.

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Author	Co-Authors	Paper/Talk	Title	Where/When
Xao, G.	Clark, G.D. and Lindqvist, J.	Conference Paper	Of Two Minds, Multiple Addresses, and One Ledger: Characterizing Opinions, Knowledge and Perceptions of Bitcoin Across Users and Non-Users	Proceedings of the ACM 2016 Conference on Human Factors in Computing Systems (CHI 2016), San Jose, CA, May 2016, pp. 1656-1668.
Xiao, L.	Lu, X., Xu, T., Wan, X., Ji, W. and Zhang, Y.	Journal Paper	Reinforcement Learning-Based Mobile Offloading for Edge Computing Against Jamming and Interference	IEEE Transactions on Communications, Vol. 68, No. 10, pp. 6114-6126, October 2020.
Xiao, L.	Xu, D., Mandayam, N.B., and Poor, H.V.	Journal Paper	Attacker-Centric View of a Detection Game against Advanced Persistent Threats	IEEE Transactions on Mobile Computing, Vol. 17, No. 11, pp. 2512-2523, November 2018.
Xiao, L.	Jiang, D., Xu, D., Zhu, H., Zhang, Y. and Poor, H.V.	Journal Paper	Two-Dimensional Anti-Jamming Mobile Communication Based on Reinforcement Learning	IEEE Transactions on Vehicular Technology, Vol. 67, No. 10, October 2018, pp. 9499-9512. CoRR abs/1712.06793 (2017)
Xiao, L.	Wan, X., Lu, X., Zhang, Y. and Wu, D.	Journal Paper	IoT Security Techniques Based on Machine Learning: How Do IoT Devices Use AI to Enhance Security?	IEEE Signal Processing Magazine, Vol. 35, No. 5, pp. 41-49, September 2018. CoRR abs/1801.06275 (2018)
Xiao, L.	Xu, D., Xie, C., Mandayam, N.B., and Poor, H.V.	Journal Paper	Cloud Storage Defense Against Advanced Persistent Threats: A Prospect Theoretic Study	IEEE Journal of Selected Areas in Communications, Vol. 35, No. 3, pp. 534-544, March 2017.
Xiao, N.	Yang, P., Li, X-Y., Zhang, Y. Yan, Y. and Zhou, H.	Journal Paper	MilliBack: Real-time Plug-n-Play Millimeter Level Tracking Using Wireless Backscattering	Proceedings of the ACM on Interactive, Mobile, Wearable and Ubiquitous Technologies, Vol. 3, No. 3, pp. 112:1-112:23, September 2019.
Xiao, Y.	Xu, W., Jia, Z. and Ma, Z.	Book Chapter	NIPAD: A Non-Invasive Power-Based Anomaly Detection Scheme for Programmable Logic Controllers	Frontiers of Information Technology and Electronic Engineering (FITEE), April 2017, Vol. 18, No. 4, pp. 519-534.
Xie, L.	Plis, S.M. and Sarwate, A.D.	Conference Paper	Data-Weighted Ensemble Learning for Privacy-Preserving Distributed Learning	Proceedings of the 2016 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2016), Shanghai, China, March 2016, pp. 2309-2313.
Xie, Y.	Li, Z., Shi, C., Liu, J., Chen, Y. and Yuan, B.	Conference Paper	Enabling Fast and Universal Audio Adversarial Attack Using Generative Model	Proceedings of the 35 th AAAI Conference on Artificial Intelligence (AAAI 2021), Held virtually, February 2021, pp. 14129-14137.
Xie, Y.	Li, Z., Shi, C., Liu, J., Chen, Y. and Yuan, B.	Journal Paper	Real-Time, Robust and Adaptive Universal Adversarial Attacks Against Speaker Recognition Systems	Journal of Signal Processing Systems, Vol. 93, No. 10, pp. 1187-1200, February 2021.
Xie, Y.	Shi, C., Li, Z., Liu, J., Chen, Y. and Yuan, B.	Conference Paper	Real-Time, Universal, and Robust Adversarial Attacks Against Speaker Recognition Systems	Proceedings of the 45 th International Conference on Acoustics, Speech and Signal Processing (ICASSP 2020), Virtual Event from Barcelona, Spain, May 2020, pp. 1738-1742. CoRR abs/2003.02301 (2020)
Xiong, S.	Sarwate, A.D. and Mandayam, N.B.	Conference Paper	Defending Against Packet-Size Side-Channel Attacks in IoT Networks	Proceedings of the 2018 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2018), Calgary, Alberta, Canada, April 2018, pp.2027-2031.

List of WINLAB Faculty and Students Peer Reviewed Publications (...continued)

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Author	Co-Authors	Paper/Talk	Title	Where/When
Xiong, S.	Sarwate, A.D. and Mandayam, N.B.	Conference Paper	Randomized Requantization with Local Differential Privacy	Proceedings of the 2016 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2016), Shanghai, China, March 2016, pp. 2189-2193.
Xu, C.	Han, Z., Zhang, Y. and Zhang, L.	Journal Paper	Special Issue on Big Data Computing, Analytics and Applications	Springer Personal Ubiquitous Computing, Vol. 21, No. 1, pp. 1-3, November 2016.
Xu, C.	Firner, B., Zhang, Y. and Howard, R.E.	Journal Paper	The Case for Efficient and Robust RF-Based Device-Free Localization	IEEE Transactions on Mobile Computing, Vol. 15, No. 9, pp. 2362-2375, September 2016.
Xu, D.	Xiao, L., Mandayam, N.B. and Poor, H.V.	Conference Paper	Cumulative Prospect Theoretic Study of a Cloud Storage Defense Game Against Advanced Persistent Threats	Proceedings of the IEEE INFOCOM Workshop on Security & Privacy in Big Data, Atlanta, GA, May 2017, pp. 541-546.
Xu, D.	Li, Y., Xiao, L., Mandayam, N.B. and Poor, H.V.	Conference Paper	Prospect Theoretic Study of Cloud Storage Defense against Advanced Persistent Threats	Proceedings of the IEEE Global Communications Conference (GLOBECOM 2016), Washington DC, December 2016, pp. 1-6.
Xu, X.	Yu, J., Chen, Y., Hua, Q., Zhu, Y., Chen, Y.-C. and Li, M.	Conference Paper	TouchPass: Towards Behavior Irrelevant on Touch-User Authentication on Smartphones Leveraging Vibrations	Proceedings of the 26 th Annual International Conference on Mobile Computing and Networking (MobiCom 2020), Virtual event, September 2020, pp. 24:1-24:13.
Xu, X.	Yu, J., Chen, Y., Zhu, Y. and Li, M.	Journal Paper	Leveraging Acoustic Signals for Vehicle Steering Tracking With Smartphones	IEEE Transactions on Mobile Computing, Vol. 19, No. 4, pp. 865-879, April 2020.
Xu, X.	Yu, J., Chen, Y., Zhu, Y., Kong, L. and Li, M.	Conference Paper	BreathListener: Fine-Grained Breathing Monitoring in Driving Environments Utilizing Acoustic Signals	Proceedings of the 17 th ACM International Conference on Mobile Systems, Applications and Services (MobiSys 2019), Seoul, South Korea, June 2019, pp. 54-66.
Xu, X.	Yu, J., Chen, Y., Zhu, Y., Qian, S. and Li, M.	Journal Paper	Leveraging Audio Signals for Early Recognition of Inattentive Driving with Smartphones	IEEE Transactions on Mobile Computing, Vol. 17, No. 7, pp. 1553-1567, July 2018.
Xu, X.	Yu, J., Chen, Y., Zhu, Y. and Li, M.	Conference Paper	SteerTrack: Acoustic-Based Device-Free Steering Tracking Leveraging Smartphones	Proceedings of the IEEE International Conference on Sensing, Communication and Networking (SECON 2018), Hong Kong, June 2018, pp. 172-180.
Xu, X.	Gao, H., Yu, J., Chen, Y., Zhu, Y., Xue, G. and Li, M.	Conference Paper	ER: Early Recognition of Inattentive Driving Leveraging Audio Devices on Smartphones	Proceedings of the IEEE International Conference on Computer Communications (INFOCOM 2017), Atlanta, GA, May 2017, pp. 1-9.
Xue, Q.	Chuah, M.C. and Chen, Y.	Conference Paper	Privacy Preserving Disease Treatment & Complication Prediction System (PDTCPs)	Proceedings of the 11 th ACM Asia Conference on Computer and Communications Security (AsiaCCS 2016), Xi'an, China, May/June 2016, pp. 841-852.
Yadgar, G.	Kolosov, O., Aktas, M.F. and Soljanin, E.	Conference Paper	Modeling the Edge: Peer-to-Peer Reincarnated	Proceedings of the 2 nd USENIX Workshop on Hot Topics in Edge Computing (HotEdge 2019), Renton, WA, July 2019.
Yaman, Y.	Spasojevic, P.	Conference Paper	Varying the Beamwidth of Hybrid Beamforming for mmWave Communications	Proceedings of the 40 th IEEE Sarnoff Symposium, Newark, NJ, September 2019, pp. 1-6.
Yaman, Y.	Spasojevic, P.	Conference Paper	Enhanced Binary Search Time-Efficient mmWave Beamforming Algorithm for NLOS Environments	Proceedings of the 2017 IEEE Wireless Communications and Networking Conference (WCNC 2017), San Francisco, CA, March 2017, pp. 1-6.

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Author	Co-Authors	Paper/Talk	Title	Where/When
Yaman, Y.	Spasojevic, P.	Conference Paper	Reducing the LOS Ray Beamforming Setup Time for IEEE 802.11ad and IEEE 802.15.3c	Proceedings of the 2016 IEEE Military Communications Conference (MILCOM 2016), Baltimore, MD, November 2016, pp. 448-453.
Yang, B.	Chen, X., Xie, J., Li, S., Zhang, Y. and Yang, J.	Conference Paper	Multicast Design for the MobilityFirst Future Internet Architecture	Proceedings of the International Conference on Computing, Networking and Communications (ICNC 2019), Honolulu, HI, February 2019, pp. 88-93.
Yang, J.	Yang, B., Chen, S., Zhang, Y., Zhang, YY., and Hanzo, L.	Journal Paper	Dynamic Resource Allocation for Streaming Scalable Videos in SDN-Aided Dense Small-Cell Networks	IEEE Transactions on Communications, Vol. 67, No. 3, pp. 2114-2129, March 2019.
Yang, S.	Bailey, E., Yang, Z., Ostrometzky, J., Zussman, G., Seskar, I. and Kostic, Z.	Conference Paper	COSMOS Smart Intersection: Edge Compute and Communications for Bird's Eye Object Tracking	Proceedings of 2020 IEEE International Conference on Pervasive Computing and Communications Workshops (PerCom Workshops), Austin, TX, March 2020, pp. 1-7.
Yang, C.	Dong, Y., Chen, Y. and Tavassolian, N.	Journal Paper	A Smartphone-Only Pulse Transmit Time Monitor Based on Cardio-Mechanical and Photoplethmography Modalities	IEEE Transactions on Biomedical Circuits and Systems, Vol. 13, No. 6, pp. 1462-1470, December 2019.
Yang, C.	Dong, Y., Chen, Y. and Tavassolian, N.	Conference Paper	A Low-Cost, Smartphone-Only Pulse Transit Time Measurement System Using Cardio-Mechanical Signals and Optical Sensors	Proceedings of the 40 th International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC 2018), Honolulu, HI, July 2018, pp. 1-4.
Yang, X.	Liu, J., Chen, Y., Guo, X. and Xie, Y.	Conference Paper	MU-ID: Multi-User Identification Through Gaits Using Millimeter Wave Radios	Proceedings of the IEEE International Conference on Computer Communications (INFOCOM 2020), Virtual Event, July 2020, pp. 2589-2598.
Yang, Y.	D'Oliveira, R.G.L., El Rouayheb, S., Yang, X., Seferoglu, H. and Chen Y.	Conference Paper	Secure Coded Computation for Efficient Distributed Learning in Mobile IoT	Proceedings of the IEEE International Conference on Sensing, Communication and Networking (SECON 2021), July 2021, pp. 1-9.
Yang, Y.	Clark, G.D., Lindqvist, J. and Oulasvirta, A.	Conference Paper	Free-Form Gesture Authentication in the Wild	Proceedings of the 2016 Conference on Human Factors in Computing Systems (CHI 2016), San Jose, CA, May 2016, pp. 3722-3735.
Yang, Z.	Gang, A. and Bajwa, W.U.	Journal Paper	Adversary-Resilient Distributed and Decentralized Statistical Inference and Machine Learning: An Overview of Recent Advances Under the Byzantine Threat Model	IEEE Signal Processing Magazine, Vol. 37, No. 3, pp. 146-159, May 2020.
Yang, Z.	Bajwa, W.U.	Conference Paper	PAC Learning from Distributed Data in the Presence of Malicious Nodes	Proceedings of the 8 th IEEE International Workshop on Computational Advances in Multi-Sensor Adaptive Processing (CAMSAP 2019), Guadeloupe, West Indies, December 2019, pp. 186-190.
Yang, Z.	Bajwa, W.U.	Journal Paper	ByRDIE: Byzantine-Resilient Distributed Coordinate Descent for Decentralized Learning	IEEE Transactions on Signal and Information Processing over Networks, Vol. 5, No. 4, pp. 611-627, December 2019. CoRR abs/1708.08155 (2017)
Yang, Z.	Bajwa, W.U.	Conference Paper	ByRDIE: A Byzantine-Resilient Distributed Learning Algorithm	Proceedings of the 2018 IEEE Data Science Workshop (DSW 2018), Lausanne, Switzerland, June 2018, pp. 21-25.
Yang, Z.	Bajwa, W.U.	Conference Paper	RD-SVM: A Resilient Distributed Support Vector Machine	Proceedings of the 2016 IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP 2016), Shanghai, China, March 2016, pp. 2444-2448.

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Author	Co-Authors	Paper/Talk	Title	Where/When
Yagy, S.	Bailey, E., Yang, Z., Ostrometzky, J., Zussman, G., Seskar, I. and Kostic, Z.	Conference Paper	COSMOS Smart Intersection: Edge Compute and Communications for Bird’s Eye Object Tracking	Proceedings of the IEEE 4 th International Workshop on Smart Edge Computing and Networking, Virtual Event, held in conjunction with PerCom 2020, Austin, TX, March 2020.
Yates, R.D.		Conference Paper	Timely Gossip	Proceedings of the 22 nd IEEE International Workshop on Signal Processing Advances in Wireless Communications (SPAWC 2021), held virtually from Lucca, Italy, September 2021, pp. 331-335.
Yates, R.D.		Conference Paper	The Age of Gossip in Networks	Proceedings of the International Symposium on Information Theory (ISIT 2021), held virtually from Melbourne Australia, July 2021, pp. 2984-2989. CoRR abs/2102.02893 (2021)
Yates, R.D.	Sun, Y., Brown, D.R., Kaul, S.K., Modiano, E.H. and Ulukus, S.	Journal Paper	Guest Editorial Age of Information	IEEE Journal on Selected Areas of Communication, Vol. 39, No. 5, pp. 1179-1182, May 2021.
Yates, R.D.	Sun, Y., Brown, D.R., Kaul, S.K., Modiano, E.H. and Ulukus, S.	Journal Paper	Age of Information: An Introduction and Survey	IEEE Journal on Selected Areas of Communication, Vol. 39, No. 5, pp. 1183-1210, May 2021.
Yates, R.D.		Journal Paper	The Age of Information in Networks: Moments, Distributions, and Sampling	IEEE Transactions on Information Theory, Vol. 66, No. 9, pp. 5712-5728, September 2020. CoRR abs/1806.03487 (2018)
Yates, R.D.	Kaul, S. K.	Conference Paper	Age of Information in Uncoordinated Unslotted Updating	Proceedings of the 2020 IEEE International Symposium on Information Theory (ISIT 2020), held virtually in Los Angeles, CA, June 2020, pp. 1759-1764. CoRR abs/2002.02026 (2020)
Yates, R.D.	Zhong, J. and Zhang, W.	Conference Paper	Updates with Multiple Service Classes	Proceedings of the 2019 IEEE International Symposium on Information Theory (ISIT 2019), Paris, France, July 2019, pp. 1017-2021.
Yates, R.D.	Kaul, S.K.	Journal Paper	The Age of Information: Real-Time Status Updating by Multiple Sources	IEEE Transactions on Information Theory, Vol. 65, No. 3, pp. 1807-1827, March 2019. CoRR abs/1608.08622 (2016)
Yates, R.D.		Conference Paper	Status Updates through Networks of Parallel Servers	Proceedings of the 2018 IEEE International Symposium on Information Theory (ISIT 2018), Vail, CO, June 2018, pp. 2281-2285.
Yates, R.D.		Conference Paper	Age of Information in a Network of Preemptive Servers	Proceedings of the 2018 INFOCOM Workshops, Honolulu, HI, April 2018, pp. 118-123. CoRR abs/1803.07993 (2018)

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Author	Co-Authors	Paper/Talk	Title	Where/When
Yates, R.D.	Najm, E., Soljanin, E. and Zhong, J.	Conference Paper	Timely Updates over an Erasure Channel	Proceedings of the IEEE International Symposium on Information Theory (ISIT 2017), Aachen, Germany, June 2017, pp. 316-320. CoRR abs/1704.04155 (2017)
Yates, R.D.	Ciblat, P., Yener, A. and Wigger, M.A.	Conference Paper	Age-Optimal Constrained Cache Updating	Proceedings of the IEEE International Symposium on Information Theory (ISIT 2017), Aachen, Germany, June 2017, pp. 141-145.
Yates, R.D.	Tavan, M., Hu, Y. and Raychaudhuri, D.	Conference Paper	Timely Cloud Gaming	Proceedings of the 2017 IEEE International Conference on Computer Communications (INFOCOM 2017), Atlanta, GA, May 2017, pp. 1-9.
Yin, M.	Li, X-Y., Zhang, Y., Yang, P. and Wan, C.	Conference Paper	Back-Guard: Wireless Backscattering based User Activity Recognition and Identification with Parallel Attention Model	Proceedings of the IEEE/ACM International Symposium on Quality of Service (IWQoS 2020), Virtual Conference, June 2020, pp.1-10.
Yousefvand, M.	Mandayam, N.B.	Journal Paper	Learning End-User Behavior for Optimized Bidding and User/Network Association	Transactions on Cognitive Communications and Networking, Vol. 7, No. 3, pp. 845-855, September 2021.
Yousefvand, M.	Wu, C-T M., Wang, R-Q., Brodie, J. and Mandayam, N.B.	Conference Paper	Modeling the Impact of 5G Leakage on Weather Prediction	Proceedings of the IEEE 5G World Forum, Virtual Event open from September 10 – November 2, 2020, pp. 291.296. CoRR abs/2008.13498 (2020)
Yousefvand, M.	Hamidouche, K. and Mandayam, N.B.	Conference Paper	Learning-Based Resource Optimization in Ultra Reliable Low Latency HetNets	Proceedings of the IEEE Global Communications Conference, Waikoloa, HI, December 2019, pp. 1-6. CoRR abs/1905.04788 (2019)
Yousefvand, M.	Hajimirsadeghi, M. and Mandayam, N.B.	Conference Paper	Impact of End-User Behavior on User/Network Association in HetNets	Proceedings of the IEEE 2018 International Conference on Communication (ICC 2018), Kansas City, KS, May 2018, pp. 1-7. CoRR abs/1806.03213 (2018)
Yu, J.	Guttermann, C., Minakhmetov, A., Sherman, M., Chen, T., Zhu, S., Zussman, G., Seskar, I. and Kilper, D.	Conference Paper	Dual Use SDN Controller for Management and Experimentation in a Field Deployed Testbed.	Proceedings of the Optical Networking and Communication Conference (OFC 2020) presented virtually in San Diego, CA, March 2020, pp.1-3.
Yu, J.	Chen, T., Guttermann, C., Zhu, S., Zussman, G., Seskar, I. and Kilper, D.C.	Conference Paper (Invited)	COSMOS: Optical Architecture and Prototyping	Proceedings of the 2019 Optical Networking and Communication Conference (OFC 2019), San Diego, CA, March 2019, pp.1-3.
Yu, Jiadi	Lu, L., Chen, Y., Zhu, Y., and Kong, L.	Journal Paper	An Indirect Eavesdropping Attack of Keystrokes on Touch Screen through Acoustic Sensing	IEEE Transactions on Mobile Computing, Vol. 20, No. 2, pp. 337-351, February 2021.
Yu, Jiadi	Chen, Y. and Xu, X.	Book Chapter	Sensing Vehicle Conditions for Detecting Driving Behaviors	Springer Briefs in Electrical and Computer Engineering, Springer 2018, ISBN 978-3-319-89769-1, pp. 1-70.
Yu, Jiadi	Chen, Z., Zhu, Y., Chen, Y., Kong, L. and Li, M.	Journal Paper	Fine-Grained Abnormal Driving Behaviors Detection and Identification with Smartphones	IEEE Transactions on Mobile Computing, Vol. 16, No. 8, pp. 2198-2212, August 2017.

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Author	Co-Authors	Paper/Talk	Title	Where/When
Yu, Jiadi	Chen, Y. and Li, J.	Journal Paper	Color Scheme Adaptation to Enhance User Experience Smartphone Displays Leveraging Ambient Light	IEEE Transactions on Mobile Computing, Vol. 16, No. 3, pp. 688-701, March 2017.
Yuan, F.	Gao, X. and Lindqvist, J.	Conference Paper	How Busy Are You?: Predicting the Interruptibility Intensity of Mobile Users	Proceedings of the 2017 Conference on Human Factors in Computing Systems, Denver, CO, May 2017, pp. 5346-5360.
Yuan, F.	Song, X. and Lindqvist, J.	Conference Paper	On My Way: Optimizing Driving Routes for Navigation Applications	Proceedings of the 13 th Annual IEEE Consumer Communications and Networking Conference (CCNC 2016), January 2016, pp. 27-31.
Yuan, X.	Qin, X., Tian, F., Jalaian, B., Shi, Y., Hou, Y.T., Lou, W. and Trappe, W.	Journal Paper	An Online Admission Control Algorithm for Dynamic Traffic in Underlay Coexistence Paradigm	IEEE Transactions on Cognitive Communications and Networking, Vol. 2, No. 4, pp. 411-426, December 2016.
Zhang, F.	Zhang, Y. and Raychaudhuri, D.	Conference Paper	Edge Caching and Nearest Replica Routing in Information-Centric Networking	Proceedings of the 37 th IEEE Sarnoff Symposium, Newark, NJ, September 2016, pp. 181-186.
Zhang, L.	Tan, S., Yang, J. and Chen, Y.	Conference Paper	VoiceLive: A Phoneme Localization Based Liveness Detection for Voice Authentication on Smartphones	Proceedings of the 23 rd ACM Conference on Computer and Communications Security (CCS 2016), Vienna, Austria, October 2016, pp. 1080-1091.
Zhang, N.	Sun, W., Lou, W., Hou, Y.T. and Trappe, W.	Conference Paper	ROSTER: Radio Context Attestation in Cognitive Radio Network	Proceedings of the 6 th Annual IEEE Conference on Communications and Network Security, Beijing, China, May/June 2018, pp. 1-9.
Zhang, W.	He, Z., Liu, L., Jia, Z., Liu, Y., Gruteser, M., Raychaudhuri, D. and Zhang, Y.	Conference Paper	Elf: Accelerate High-Resolution Mobile Deep Vision with Content-aware Parallel Offloading	To appear in the Proceedings of the 27 th Annual International Conference on Mobile Computing and Networking (MobiCom 2021), New Orleans, LA, postponed in 2021 and now being held Jan/Feb 2022, pp. 201-214.
Zhang, W.	Ford, R.D., Cho, J., Zhang, C.J., Zhang, Y. and Raychaudhuri, D.	Conference Paper	Self-Organizing Cellular Radio Access Network with Deep Learning	Proceedings of the 2019 INFOCOM Workshops, Paris, France, April/May 2019, pp. 429-434.
Zhang, W.	Li, S., Liu, L., Jia, Z., Zhang, Y. and Raychaudhuri, D.	Conference Paper	Hetero-Edge: Orchestration of Real-Time Vision Applications on Heterogeneous Edge Clouds	Proceedings of the IEEE International Conference on Computer Communications (INFOCOM 2019), Paris, France, April/May 2019, pp. 1270-1278.
Zhang, W.	Chen, J., Zhang, Y. and Raychaudhuri, D.	Conference Paper	Towards Efficient Edge Cloud Augmentation for Virtual Reality MMOGs	Proceedings of the 2 nd ACM/IEEE Symposium on Edge Computing (SEC 2017), San Jose, CA, October 2017, pp. 8:1-8:14.
Zhang, W.	Hu, Y., Zhang, Y. and Raychaudhuri, D.	Conference Paper	SEGUE: Quality of Service Aware Edge Cloud Service Migration	Proceedings of the 8 th IEEE International Conference on Cloud Computing Technology and Science (CloudCom 2016), Luxembourg, December 2016, pp. 344-351.
Zhang, Yanyong	Firner, B., Howard, R.E., Martin, R.P., Mandayam, N.B., Fukuyama, J. and Xu, C.	Conference Paper	Transmit Only: An Ultra Low Overhead MAC Protocol for Dense Wireless Systems	Proceedings of the 3 rd IEEE International Conference on Smart Computing, (SmartComp 2017), Hong Kong, China, May 2017, pp. 1-8.
Zhang, Yihan	Vatedka, S., Jaggi, S. and Sarwate, A.D.	Conference Paper	Quadratically Constrained Myopic Adversarial Channels	Proceedings of the 2018 IEEE International Symposium on Information Theory (ISIT 2018), Vail, CO, June 2018, pp. 611-615. CoRR abs/1801.05951 (2018)

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Author	Co-Authors	Paper/Talk	Title	Where/When
Zhao, T.	Liu, J., Wang, Y., Liu, H. and Chen, Y.	Journal Paper	Towards Low-Cost sign Language Gesture Recognition Leveraging Wearables	IEEE Transactions on Mobile Computing, Vol. 20, No. 11, pp. 1685-1701, April 2021.
Zhao, T.	Wang, Y., Liu, J., Chen, Y., Cheng, J. and Yu, J.	Conference Paper	TrueHeart: Continuous Authentication on Wrist-Worn Wearables Using PPG-Based Biometrics	Proceedings of the IEEE International Conference on Computer Communications (INFOCOM 2020), Virtual Event, July 2020, pp. 30-39.
Zhao, T.	Liu, J., Wang, Y., Liu, H. and Chen, Y.	Journal Paper	Towards Lo-Cost Sign Language Gesture Recognition Leveraging Wearables	IEEE Transactions on Mobile Computing, Early Access Article, December 2019.
Zhao, T.	Wang, Y., Liu, J. and Chen, Y.	Conference Demo	Toward Continuous User Authentication Using PPG in Commodity Wrist-Worn Wearables	Proceedings of the 25 th Annual International Conference on Mobile Computing and Networking (MobiCom 2019), Los Cabos, Mexico, October 2019, pp. 76:1-76:3.
Zhao, T.	Wang, Y., Liu, J. and Chen, Y.	Conference Paper	Your Heart Won't Lie: PPG-Based Continuous Authentication on Wrist-Worn Wearable Devices	Proceedings of the 24 th Annual International Conference on Mobile Computing and Networking (MobiCom 2018), New Delhi, India, Oct/Nov 2018, pp. 783-785.
Zhao, T.	Liu, J., Wang, Y., Liu, H. and Chen, Y.	Conference Paper	PPG-Based Finger-Level Gesture Recognition Leveraging Wearables	Proceedings of the IEEE Conference on Computer Communications (INFOCOM 2018), Honolulu, HI, April 2018, pp. 1457-1465.
Zhong, J.	Zhang, W., Yates, R.D., Garnaev, A. and Zhang, Y.	Conference Paper	Age-Aware Scheduling for Asynchronous Arriving Jobs in Edge Applications	Proceedings of 2019 IEEE INFOCOM Workshops, Paris, France, April/May 2019, pp. 674-679.
Zhong, J.	Yates, R.D. and Soljanin, E.	Conference Paper	Timely Lossless Source Coding for Randomly Arriving Symbols	Proceedings of the 2018 IEEE Information Theory Workshop (ITW 2018), Guangzhou, China, November 2018, pp. 1-5. CoRR abs/1810.01533 (2018)
Zhong, J.	Yates, R.D. and Soljanin, E.	Conference Paper	Multicast with Prioritized Delivery: How Fresh is Your Data?	Proceedings of the 19 th IEEE International Workshop on Signal Processing Advances in Wireless Communications (SPAWC 2018), Kalamata, Greece, June 2018, pp. 476-480. CoRR abs/1808.05738 (2018)
Zhong, J.	Yates, R.D. and Soljanin, E.	Conference Paper	Two Freshness Metrics for Local Cache Refresh	Proceedings of the 2018 IEEE International Symposium on Information Theory (ISIT 2018), Vail, CO, June 2018, pp. 1924-1928.
Zhong, J.	Yates, R.D. and Soljanin, E.	Conference Paper	Minimizing Content Staleness in Dynamo-Style Replicated Storage Systems	Proceedings of the 2018 INFOCOM Workshops, Honolulu, HI, April 2018, pp. 361-366. CoRR abs/1804.00742 (2018)
Zhong, J.	Soljanin, E. and Yates, R.D.	Conference Paper	Status Updates Through Multicast Networks	Proceedings of the Allerton Conference on Communication, Control and Computing (Allerton 2017), Champaign, IL, October 2017, pp. 463-469. CoRR abs/1709.02427 (2017)
Zhong, J.	Yates, R.D. and Soljanin, E.	Conference Paper	Backlog-Adaptive Compression: Age of Information	Proceedings of the IEEE International Symposium on Information Theory (ISIT), Aachen, Germany, June 2017, pp. 566-570.

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Author	Co-Authors	Paper/Talk	Title	Where/When
Zhong, J.	Yates, R.D.	Conference Paper	Timeliness in Lossless Block Coding	Proceedings of the Data Compression Conference (DCC), Snowbird, UT, March 2016, pp. 339-348. CoRR abs/1802.09167 (2018)
Zhu, H.	Zhang, Y. Liu, Z., Wang, X. Chang, S. and Chen, Y.	Journal Paper	Localizing Acoustic Objects on a Single Phone	IEEE/ACM Transactions on Networking, Vol. 29, No. 5, pp. 2170-2183, October 2021.
Zhu, H.	Zhang, Y., Liu, Z., Chang, S. and Chen, Y.	Conference Paper	HyperEar: Indoor Remote Object Finding with a Single Phone	Proceedings of the 39 th IEEE International Conference on Distributed Computing Systems (ICDCS 2019), Dallas, TX, July 2019, pp. 678-687.
Zhu, H.	Zhang, Y., Li, M., Ashok, A. and Ota, K.	Journal Paper	Exploring Deep Learning for Efficient and Reliable Mobile Sensing	IEEE Network, Vol. 32, No. 4, pp. 6-7, July/August 2018.