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Contents

1 General Information

1.1 Academic Qualifications

- **Ph.D.** in Electrical Engineering and Computer Science, 2008
  Massachusetts Institute of Technology, USA
  Topic: Decentralized Detection in Resource-limited Sensor Network Architectures
  Advisors: John Tsitsiklis and Moe Z. Win

- **MS** in Electrical Engineering, 2002
  Stanford University, USA

- **BS** in Mathematics and Electrical Engineering with *distinction*, 2002
  Stanford University, USA

1.2 Awards and Honors

- **Outstanding Editorial Board Member Award**, 2023.
  IEEE Transactions on Signal and Information Processing Over Networks.

- **Excellent Paper Award**, International Conference on Smart Power & Internet Energy Systems, 2022.

- **IEEE Signal Processing Society Young Author Best Paper Award**, 2016.
  Awarded with Jack Ho. I am a co-author of the paper and the main supervisor of Jack.

- **Early Career Teaching Excellence Award**, 2016.
  School of Electrical and Electronic Engineering, Nanyang Technological University. In recognition of tenure-track assistant professors who have consistently demonstrated excellent teaching.

- **Tan Chin Tuan Exchange Fellowship in Engineering**, 2015.

- **Best Student Paper Award**, 46th Asilomar Conference on Signals, Systems, and Computers, 2012.
  The Asilomar Conference on Signals, Systems, and Computers is a prestigious conference in signal processing and computer systems, and is technically co-sponsored by the IEEE Signal Processing Society.

- **Frederick Emmons Terman Engineering Scholastic Award, Stanford University**, 2002.
  Awarded to the top engineering students.

- **President's Award, Stanford University**, 1999.
  Awarded to top students for academic excellence.

1.3 Work Experience

- Sep. 2023 – present, Professor of Signal and Information Processing, School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore

- Sep. 2017 – Aug. 2023, Associate Professor (with tenure), School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore

- Mar. 2010 – Aug. 2017, Assistant Professor, School of Electrical and Electronic Engineering, Nanyang Technological University, Singapore

- Oct. 2008 – Mar. 2010, Associate, Quantitative Strategy, Morgan Stanley Asia Limited, Hong Kong

- Feb. 2008 – Sep. 2008, Associate, Quantitative Credit Research, Lehman Brothers Asia Limited

- Sep. 2004 – Dec. 2007, Research Assistant/Teaching Assistant, Massachusetts Institute of Technology

- Aug. 2002 – Jul. 2004, Various industry/academic positions due to scholarship bond, Singapore/US

1.4   Consulting Experience

- Apr. 2010 – Mar. 2012, Financial Modelling, Morgan Stanley Asia Limited

1.5   Professional Memberships

- Senior Member, IEEE

2   Research Activities

2.1   Ongoing Research Grants

- PI, "Project Navigator: Aerial-ground Place Recognition with Pose Regression", National University of Singapore, May 2025 – May 2026, S\$146,300
- PI, "Project Trio", DSO National Laboratories, May 2025 – May 2026, S\$172,450
- PI, "Project Spyder", DSO National Laboratories, May 2025 – May 2026, S\$335,000

2.2   Completed Research Grants

- PI, "Generalized Message Passing for Federated Learning in Multi-Access Edge Computing", Future Communications Program, Jun. 2022 – May 2025, S\$461,538
- PI, "Project Ananke 2: Aerial-Ground Place Recognition for Drones", DSO National Laboratories, Jul. 2024 – Dec. 2024, S\$50,000
- PI, "Project Ananke: Robust Multi-Modal Neural Diffusion for Light-Weight Drone Perception", DSO National Laboratories, Jul. 2023 – Jun. 2024, S\$100,000
- PI, "Project LOCUS: RF Localization Using Donor Signals", DSO National Laboratories, Sep. 2022 – Nov. 2024, S\$499,999.50
- PI, "Graph Signal Processing for High Dimensional Structures and Spaces", Ministry of Education Academic Research Fund Tier 2, Nov. 2021 – Oct. 2024, S\$567,972
- PI, "Research and Applications of 5G-V2X Communication and Computing", NI Singapore Ltd, Oct. 2020 – Oct. 2022, S\$120,000
- PI, "5G-V2X Communication Trial and Use Cases Development", M1 Limited, Jan. 2020 – Dec. 2023, S\$98,040
- PI, "End to End Learned Localization for AV", NRF/Continental Corp Lab/NTU, Dec. 2019 – Nov. 2022, S\$595,909
- PI, "Next-Generation V2X Network Architecture and Ecosystem for Smart Mobility", A*Star Industry Alignment Fund - Pre Positioning (IAF-PP), Nov. 2019 – Oct. 2023, S\$21,240,000
- Co-PI, "Design and Reinforcement Security on Smart Grids Against Cyber-Physical Attack", NRF, Oct. 2019 – Mar. 2023, S\$271,700 (total grant: S\$997,460)
- PI, "Decentralized Privacy for the Internet of Things: Theory and Algorithms", Ministry of Education Academic Research Fund Tier 2, May 2019 – Jul. 2022, S\$568,512
- Co-PI, "Outdoor Geo-Localization and Navigation Using DVB and LTE Signals-of-Opportunity in GPS-denied Environments", Ministry of Defence, Aug. 2018 – Aug. 2020, S\$300,000 (total grant: S\$1,200,000)
- PI, "Relative Positions Determination Using Communication Signals", Defence Science Organization National Laboratories, Aug. 2018 – Apr. 2020, S\$479,159

- PI, "Energy Efficient Resilient Distributed Inference", NRF/Delta Electronics Corp Lab/NTU, Jul. 2016 – Aug. 2020, S$434,600
- PI, "Fake News Detection: A Graph Signal Processing And Learning Approach", Ministry of Education Academic Research Fund Tier 1, Nov. 2017 – Jul. 2019, S$80,000
- Co-PI, "Project Moscato: A Holistic Approach to Combatting Insider Threats", Ministry of Defence, Dec. 2015 – Jun. 2019, S$308,000 (total grant: S$4,762,600)
- Co-PI, "UWB Based Collaborative Decentralised Localisation", NRF/ST Dynamics Corp Lab/NTU, Jul. 2015 – Jun. 2019, S$427,400 (total grant: S$1,187,000)
- Co-PI, "Feasibility Study of Multi-Function Millimeter-Wave RaCoPo System", Huawei International Pte. Ltd., Oct. 2017 – Apr. 2019, S$148,944 (total grant: S$417,600)
- PI, "Multi-Target Track Before Detect On TDOA-FDOA Based Measurements", Defence Science Organization National Laboratories, Mar. 2015 – Feb. 2016, S$100,000
- PI, "Robust Learning in Social Networks: Fundamental Limits and Strategies", Ministry of Education Academic Research Fund Tier 2, Jan. 2015 – Jun. 2018, S$652,998
- Co-PI, "Development of NTU/NXP-Intelligent Transport System Test-Bed", Economic Development Board, Dec. 2014 – Nov. 2019, S$2,568,300 (total grant: S$14,098,000)
- PI, "Identifying Infection Sources in a Network", Ministry of Education Academic Research Fund Tier 2, Apr. 2014 – Mar. 2017, S$507,593
- Co-PI, "Project Urban-Nav: Urban Outdoor Navigation of Unmanned Platform under a GPS Challenged Environment", Defence Research and Technology Office, Dec. 2013 – Feb. 2017, S$223,000 (total grant: S$1,854,000)
- PI, "GPS Free TDOA/FDOA Geolocation and Tracking II", Defence Science Organization National Laboratories, Mar. 2013 – Nov. 2015, S$236,500
- PI, "Project Technifibre: Cooperative and Distributed Tracking in Urban Environments", Defence Science and Technology Agency, May 2012 – May 2015, S$622,725
- PI, "Intelligent Information Fusion and Inference in Sensor Networks", Ministry of Education Academic Research Fund Tier 1, Mar. 2011 – Feb. 2014, S$100,000
- PI, "UWB Monitoring System for Sleep Studies", Nanyang Institute of Technology in Health and Medicine, Jul. 2011 – Jan. 2013, S$70,000
- PI, "GPS Free TDOA/FDOA Geolocation and Tracking", Defence Research and Technology Office, Nov. 2011 – Nov. 2012, S$65,200
- PI, "Distributed Signal Processing and Algorithms for Decentralized Decision Making and Computation in Sensor Networks", NTU Startup Grant, Mar. 2010 – Mar. 2013, S$100,000

2.3 Published/Accepted Journal Papers

J1. X. Liu, Y. Yuan, Z. Zhang, Z. Ma, W. P. Tay, and P. Fan, "Customized OTFS pulse compression and waveform optimization for enhancing target sensing in ISAC systems," *IEEE Journal on Selected Areas in Communications*, 2025, in press

J2. C. X. Wang and W. P. Tay, "Data-driven regularized inference privacy," *IEEE Transactions on Dependable and Secure Computing*, 2025, in press

J3. X. Jian, M. Golz, F. Ji, W. P. Tay, and A. M. Zoubir, "A graph signal processing perspective of network multiple hypothesis testing with false discovery rate control," *IEEE Transactions on Signal Processing*, vol. 73, pp. 3496 – 3512, 2025

J4. F. Ji, Y. Zhao, S. H. Lee, K. Zhao, W. P. Tay, and J. Yang, "Graph distributional signals for regularization in graph neural networks," *IEEE Transactions on Signal and Information Processing over Networks*, vol. 11, pp. 670 – 682, 2025

J5. X. Ran, W. P. Tay, and C. H. T. Lee, "High-performance optimization model based on novel conditional value at risk metric for power grids with high wind power penetration," *IEEE Transactions on Industrial Informatics*, vol. 21, no. 7, pp. 5689 – 5700, Jul. 2025

J6. X. Ran, W. P. Tay, and C. H. T. Lee, "Uncertain interval-based risk dispatch approach of power systems under an unified framework of multiple uncertainties," *IEEE Transactions on Industrial Informatics*, vol. 21, no. 3, pp. 2053 – 2063, Mar. 2025

J7. Y. Yuan, W. Li, Y. Liang, W. P. Tay, W. Gao, and F. Shen, "Lane-aware dynamic spatio-temporal transformer for unimodal trajectory prediction," *IEEE Transactions on Intelligent Vehicles*, vol. 10, no. 2, pp. 1156 – 1167, Feb. 2025

J8. V. Mohan, W. P. Tay, and A. Basu, "Towards neuromorphic compression based neural sensing for next-generation wireless implantable brain machine interface," *Neuromorphic Computing and Engineering*, vol. 5, no. 1, p. 014004, Jan. 2025

J9. S. H. Lee, F. Ji, and W. P. Tay, "Node-specific space selection via localized geometric hyperbolicity in graph neural networks," *Transactions on Machine Learning Research*, 2024. [Online]. Available: `https://openreview.net/forum?id=tHteJFeN1y`

J10. S. Wang, Q. Kang, R. She, K. Zhao, Y. Song, and W. P. Tay, "PRFusion: Toward effective and robust multi-modal place recognition with image and point cloud fusion," *IEEE Transactions on Intelligent Transportation Systems*, vol. 25, no. 12, pp. 20 523 – 20 534, 2024

J11. F. Ji, X. Jian, and W. P. Tay, "Modeling sparse graph sequences and signals using generalized graphons," *IEEE Transactions on Signal Processing*, vol. 72, pp. 5048 – 5064, 2024

J12. Y. Lu, F. Ji, and W. P. Tay, "Heterogeneous graph adaptive flow network," *Transactions on Machine Learning Research*, 2024. [Online]. Available: `https://openreview.net/forum?id=usvg3yhjAx`

J13. X. Ran, W. P. Tay, and C. H. T. Lee, "Robust data-driven adversarial false data injection attack detection method with deep Q-network in power systems," *IEEE Transactions on Industrial Informatics*, vol. 20, no. 8, pp. 10 405 – 10 418, 2024

J14. X. Liu, Y. Yuan, T. Zhang, G. Cui, and W. P. Tay, "Integrated transmit waveform and RIS phase shift design for LPI detection and communication," *IEEE Transactions on Wireless Communications*, vol. 23, no. 6, pp. 5663 – 5679, Jun. 2024

J15. X. Jian, W. P. Tay, and Y. Eldar, "Kernel based reconstruction for generalized graph signal processing," *IEEE Transactions on Signal Processing*, vol. 72, pp. 2308 – 2322, 2024

J16. A. Darendeli, A. Sun, and W. P. Tay, "The geography of corporate fake news," *PLOS ONE*, vol. 19, no. 4, pp. 1 – 28, Apr. 2024

J17. Q. Kang, W. P. Tay, R. She, S. Wang, X. Liu, and Y.-R. Yang, "Multi-armed linear bandits with latent biases," *Information Sciences*, vol. 660, p. 120103, 2024

J18. R. She, Q. Kang, S. Wang, W. P. Tay, K. Zhao, Y. Song, T. Geng, Y. Xu, D. N. Navarro, and A. Hartmannsgruber, "PointDifformer: Robust point cloud registration with neural diffusion and transformer," *IEEE Transactions on Geoscience and Remote Sensing*, vol. 62, pp. 1 – 15, 2024

J19. R. She, Q. Kang, S. Wang, Y.-R. Yang, K. Zhao, Y. Song, and W. P. Tay, "RobustMat: Neural diffusion for street landmark patch matching under challenging environments," *IEEE Transactions on Image Processing*, vol. 32, pp. 5550 – 5563, 2023

J20. R. She, Q. Kang, S. Wang, W. P. Tay, Y. L. Guan, D. N. Navarro, and A. Hartmannsgruber, "Image patch-matching with graph-based learning in street scenes," *IEEE Transactions on Image Processing*, vol. 32, pp. 3465 – 3480, 2023

J21. F. Ji, W. P. Tay, and A. Ortega, "Graph signal processing over a probability space of shift operators," *IEEE Transactions on Signal Processing*, vol. 71, pp. 1159 – 1174, 2023

J22. W. Zhang, Z. Wang, and W. P. Tay, "Approximate maximum-likelihood RIS-aided positioning," *IEEE Transactions on Wireless Communications*, vol. 22, no. 12, pp. 8859 – 8875, Dec. 2023

J23. H. Cheng, J. T. Zhou, W. P. Tay, and B. Wen, "Graph neural networks with triple attention for few-shot learning," *IEEE Transactions on Multimedia*, vol. 25, pp. 8225 – 8239, 2023

J24. X. Liu, Y. Yuan, T. Zhang, G. Cui, and W. P. Tay, "LPI radar signal design resistant to identification by ESM systems," *IEEE Transactions on Aerospace and Electronic Systems*, vol. 59, no. 6, pp. 9233 – 9246, Dec. 2023

J25. P. Lin, C. Deng, Y. Yang, C. H. T. Lee, and W. P. Tay, "Resilience-oriented control for cyber-physical hybrid energy storage systems using a semi-consensus scheme: Design and practice," *IEEE Transactions on Industrial Electronics*, vol. 70, no. 3, pp. 2508 – 2519, Mar. 2023

J26. X. Jian and W. P. Tay, "Wide-sense stationarity in generalized graph signal processing," *IEEE Transactions on Signal Processing*, vol. 70, pp. 3414 – 3428, 2022

J27. Y. Yan, I. Bajaj, R. Rabiee, and W. P. Tay, "A tightly coupled integration approach for cooperative positioning enhancement in DSRC vehicular networks," *IEEE Transactions on Intelligent Transportation Systems*, vol. 23, no. 12, pp. 23 278 – 23 294, Dec. 2022

J28. J. Yang and W. P. Tay, "An unsupervised Bayesian neural network for truth discovery in social networks," *IEEE Transactions on Knowledge and Data Engineering*, vol. 34, no. 11, pp. 5182 – 5195, Nov. 2022

J29. A. B. Bhutto, X. S. Vu, E. Elmroth, W. P. Tay, and M. Bhuyan, "Reinforced transformer learning for VSI-DDoS detection in edge clouds," *IEEE Access*, vol. 10, pp. 94 677–94 690, 2022

J30. Q. Kang and W. P. Tay, "Task recommendation in crowdsourcing based on learning preferences and reliabilities," *IEEE Transactions on Services Computing*, vol. 15, no. 4, pp. 1785–1798, 2022

J31. F. Ji, Pratibha, and W. P. Tay, "Unlimited dynamic range signal recovery for folded graph signals," *Signal Processing*, vol. 198, p. 108574, 2022

J32. F. Ji, G. Kahn, and W. P. Tay, "Signal processing on simplicial complexes with vertex signals," *IEEE Access*, vol. 10, pp. 41 889 – 41 901, 2022

J33. C. Wang, W. P. Tay, Y. Wei, and Y. Wang, "Privacy-preserving distributed projection LMS for linear multitask networks," *IEEE Transactions on Signal Processing*, vol. 69, pp. 6530 – 6545, 2021

J34. W. Zhang and W. P. Tay, "Cost-efficient RIS-aided channel estimation via rank-one matrix factorization," *IEEE Wireless Communications Letters*, vol. 10, no. 11, pp. 2562 – 2566, Nov. 2021

J35. T. S. Lau and W. P. Tay, "Asymptotically optimal sampling policy for quickest change detection with observation-switching cost," *IEEE Transactions on Signal Processing*, vol. 69, pp. 1332 – 1346, 2021

J36. C. X. Wang, Y. Song, and W. P. Tay, "Arbitrarily strong utility-privacy tradeoff in multi-agent systems," *IEEE Transactions on Information Forensics and Security*, vol. 16, pp. 671 – 684, 2021

J37. Y. Song, C. X. Wang, and W. P. Tay, "Compressive privacy for a linear dynamical system," *IEEE Transactions on Information Forensics and Security*, vol. 15, pp. 895 – 910, 2020

J38. M. Sun and W. P. Tay, "On the relationship between inference and data privacy in decentralized IoT networks," *IEEE Transactions on Information Forensics and Security*, vol. 15, pp. 852 – 866, 2020

J39. M. Sun and W. P. Tay, "Decentralized detection with robust information privacy protection," *IEEE Transactions on Information Forensics and Security*, vol. 15, pp. 85–99, 2020

J40. X. Liu, W. P. Tay, Z.-W. Liu, and G. Xiao, "Quasi-synchronization of heterogeneous networks with a generalized Markovian topology and event-triggered communication," *IEEE Transactions on Cybernetics*, vol. 50, no. 10, pp. 4200 – 4213, Oct. 2020

J41. F. Ji, W. Tang, W. P. Tay, and E. K. P. Chong, "Network topology inference using information cascades with limited statistical knowledge," *Information and Inference: A Journal of the IMA*, vol. 9, no. 2, pp. 327 — 360, Jun. 2020

J42. F. Ji and W. P. Tay, "A Hilbert space theory of generalized graph signal processing," *IEEE Transactions on Signal Processing*, vol. 67, no. 24, pp. 6188 – 6203, Dec. 2019

J43. X. He, W. P. Tay, H. Lei, M. Sun, and Y. Gong, "Privacy-aware sensor network via multilayer nonlinear processing," *IEEE Internet of Things Journal*, vol. 6, no. 6, pp. 10 834 – 10 845, Dec. 2019

J44. F. Wen, H. Wymeersch, B. Peng, W. P. Tay, H. C. So, and D. Yang, "A survey on 5G massive MIMO localization," *Digital Signal Processing*, vol. 94, pp. 21 – 28, Nov. 2019

J45. Q. Kang and W. P. Tay, "Sequential multi-class labeling in crowdsourcing," *IEEE Transactions on Knowledge and Data Engineering*, vol. 31, no. 11, pp. 2190 – 2199, Nov. 2019

J46. T. S. Lau and W. P. Tay, "Quickest change detection in the presence of a nuisance change," *IEEE Transactions on Signal Processing*, vol. 67, no. 20, pp. 5281 – 5296, Oct. 2019

J47. L. Ma, W. P. Tay, and G. Xiao, "Iterative expectation maximization for reliable social sensing with information flows," *Information Sciences*, vol. 501, pp. 621 – 634, Oct. 2019

J48. J. Yang, J. Wang, and W. P. Tay, "Using social network information in community-based Bayesian truth discovery," *IEEE Transactions on Signal and Information Processing over Networks*, vol. 5, no. 3, pp. 525 – 537, Sep. 2019

J49. R. Rabiee, X. Zhong, Y. Yan, and W. P. Tay, "LaIF: A lane-level self-positioning scheme for vehicles in GNSS-denied environments," *IEEE Transactions on Intelligent Transportation Systems*, vol. 20, no. 8, pp. 2944 – 2961, Aug. 2019

J50. F. Ji, W. Tang, and W. P. Tay, "On the properties of Gromov matrices and their applications in network inference," *IEEE Transactions on Signal Processing*, vol. 67, no. 10, pp. 2624 – 2638, May 2019

J51. G. Yang, W. P. Tay, Y. L. Guan, and Y.-C. Liang, "Optimal power allocation for diffusion-type sensor networks with wireless information and power transfer," *IEEE Access*, vol. 7, pp. 32 408 – 32 422, Mar. 2019

J52. T. S. Lau, W. P. Tay, and V. V. Veeravalli, "A binning approach to quickest change detection with unknown post-change distribution," *IEEE Transactions on Signal Processing*, vol. 67, no. 3, pp. 609 – 621, Feb. 2019

J53. W. Tang, F. Ji, and W. P. Tay, "Estimating infection sources in networks using partial timestamps," *IEEE Transactions on Information Forensics and Security*, vol. 13, no. 2, pp. 3035 – 3049, Dec. 2018

J54. J. Yang, X. Zhong, and W. P. Tay, "A dynamic Bayesian nonparametric model for blind calibration of sensor networks," *IEEE Internet of Things Journal*, vol. 5, no. 5, pp. 3942 – 3953, Oct. 2018

J55. M. Z. A. Bhotto and W. P. Tay, "Non-Bayesian social learning with observation reuse and soft switching," *ACM Transactions on Sensor Networks*, vol. 14, no. 2, pp. 14:1–14:21, Jun. 2018

J56. M. Sun, W. P. Tay, and X. He, "Toward information privacy for the Internet of Things: A non-parametric learning approach," *IEEE Transactions on Signal Processing*, vol. 66, no. 7, pp. 1734 – 1747, Apr. 2018

J57. F. Quitin, P. De Doncker, F. Horlin, and W. P. Tay, "Virtual multi-antenna array for estimating the direction of a transmitter: system, bounds and experimental results," *IEEE Transactions on Vehicular Technology*, vol. 67, no. 2, pp. 1510 – 1520, Feb. 2018

J58. Y. Yu, G. Xiao, G. Li, W. P. Tay, and H. F. Teoh, "Opinion diversity and community formation in adaptive networks," *Chaos: An Interdisciplinary Journal of Nonlinear Science*, vol. 27, no. 20, p. 103115, Oct. 2017

J59. W. Luo, W. P. Tay, and M. Leng, "On the universality of Jordan centers for estimating infection sources in tree networks," *IEEE Transactions on Information Theory*, vol. 63, no. 7, pp. 4634 – 4657, Jul. 2017

J60. F. Ji, W. P. Tay, and L. Varshney, "An algorithmic framework for estimating rumor sources with different start times," *IEEE Transactions on Signal Processing*, vol. 65, no. 10, pp. 2517 – 2530, May 2017

J61. J. Tang, W. P. Tay, T. Q. S. Quek, and B. Liang, "System cost minimization in cloud RAN with limited fronthaul capacity," *IEEE Transactions on Wireless Communications*, vol. 16, no. 5, pp. 3371 – 3384, May 2017

J62. Y. Wang, W. P. Tay, and W. Hu, "A multitask diffusion strategy with optimized inter-cluster cooperation," *IEEE Journal of Selected Topics in Signal Processing*, vol. 11, no. 3, pp. 504 – 517, Mar. 2017

J63. M. Leng, W. P. Tay, F. Quitin, C. Cheng, S. G. Razul, and C. M. S. See, "Anchor-aided joint localization and synchronization using SOOP: Theory and experiments," *IEEE Transactions on Wireless Communications*, vol. 15, no. 11, pp. 7670 – 7685, Nov. 2016

J64. Y. Zhang, W. P. Tay, K. H. Li, M. Esseghir, and D. Gaiti, "Learning temporal-spatial spectrum reuse," *IEEE Transactions on Communications*, vol. 64, no. 7, pp. 3092 – 3103, Jul. 2016

J65. W. Luo, W. P. Tay, and M. Leng, "Infection spreading and source identification: A hide and seek game," *IEEE Transactions on Signal Processing*, vol. 64, no. 16, pp. 4228 – 4243, Aug. 2016

J66. J. Ho, W. P. Tay, T. Q. S. Quek, and E. K. P. Chong, "Robust decentralized detection and social learning in tandem networks," *IEEE Transactions on Signal Processing*, vol. 63, no. 19, pp. 5019 – 5032, Oct. 2015, **IEEE Signal Processing Society Young Author Best Paper Award**

J67. J. Tang, W. P. Tay, and T. Q. S. Quek, "Cross-layer resource allocation with elastic service scaling in cloud radio access network," *IEEE Transactions on Wireless Communications*, vol. 14, no. 9, pp. 5068 – 5081, Sep. 2015

J68. W. Hu and W. P. Tay, "Multi-hop diffusion LMS for energy-constrained distributed estimation," *IEEE Transactions on Signal Processing*, vol. 63, no. 15, pp. 4022 – 4036, Aug. 2015

J69. W. Xu, F. Quitin, M. Leng, W. P. Tay, and S. G. Razul, "Distributed localization of a RF target in NLOS environments," *IEEE Journal on Selected Areas in Communications*, vol. 33, no. 7, pp. 1 – 14, Jul. 2015

J70. W. P. Tay, "Whose opinion to follow in multihypothesis social learning? A large deviations perspective," *IEEE Journal of Selected Topics in Signal Processing*, vol. 9, no. 2, pp. 344 – 359, Mar. 2015

J71. M. Leng, W. P. Tay, T. Q. S. Quek, and H. Shin, "Distributed local linear parameter estimation using Gaussian SPAWN," *IEEE Transactions on Signal Processing*, vol. 63, no. 1, pp. 244 – 257, Jan. 2015

J72. Y. Zhang, W. P. Tay, K. H. Li, and D. Gaiti, "Distributed boundary estimation for spectrum sensing in cognitive radio networks," *IEEE Journal on Selected Areas in Communications*, vol. 32, no. 11, pp. 1961 – 1973, Nov. 2014

J73. W. Luo, W. P. Tay, and M. Leng, "How to identify an infection source with limited observations," *IEEE Journal of Selected Topics in Signal Processing*, vol. 8, no. 4, pp. 586 – 597, Aug. 2014

J74. J. Tang, W. P. Tay, and Y. Wen, "Dynamic request redirection and elastic service scaling in cloud-centric media networks," *IEEE Transactions on Multimedia*, vol. 16, no. 5, pp. 1434 – 1445, Aug. 2014

J75. M. Leng, W. P. Tay, C. M. S. See, S. G. Razul, and M. Z. Win, "Modified CRLB for cooperative geolocation of two devices using signals of opportunity," *IEEE Transactions on Wireless Communications*, vol. 13, no. 7, pp. 3636 – 3649, Jul. 2014

J76. W. Hu and W. P. Tay, "An integer linear programming approach for a class of bilinear integer programs," *Operations Research Letters*, vol. 42, no. 3, pp. 226 —- 230, May 2014

J77. W. Luo, W. P. Tay, and M. Leng, "Identifying infection sources and regions in large networks," *IEEE Transactions on Signal Processing*, vol. 61, no. 11, pp. 2850 – 2865, Jun. 2013

J78. D. W. Soh, W. P. Tay, and T. Q. S. Quek, "Randomized information dissemination in dynamic environments," *IEEE/ACM Transactions on Networking*, vol. 21, no. 3, pp. 681 – 691, Jun. 2013

J79. T. M. Nguyen, Y. Jeong, T. Q. S. Quek, W. P. Tay, and H. Shin, "Interference alignment in a Poisson field of MIMO femtocells," *IEEE Transactions on Wireless Communications*, vol. 12, no. 6, pp. 2633 – 2645, Jun. 2013

J80. Y. Nijsure, W. P. Tay, E. Gunawan, F. Wen, Y. Zhang, Y. L. Guan, and A. P. Chua, "An impulse radio ultrawideband system for contactless noninvasive respiratory monitoring," *IEEE Transactions on Biomedical Engineering*, vol. 60, no. 6, pp. 1509 – 1517, Jun. 2013

J81. W. P. Tay, "The value of feedback in decentralized detection," *IEEE Transactions on Information Theory*, vol. 58, no. 12, pp. 7226 – 7239, Dec. 2012

J82. G. Hu, W. P. Tay, and Y. Wen, "Cloud robotics: architecture, challenges and applications," *IEEE Network, Special Issue on Machine and Robotic Networking*, vol. 26, no. 3, pp. 21 – 28, May 2012

J83. W. P. Tay, J. N. Tsitsiklis, and M. Z. Win, "Bayesian detection in bounded height tree networks," *IEEE Transactions on Signal Processing*, vol. 57, no. 10, pp. 4042 – 4051, Oct. 2009

J84. W. P. Tay, J. N. Tsitsiklis, and M. Z. Win, "On the subexponential decay of detection error probabilities in long tandems," *IEEE Transactions on Information Theory*, vol. 54, no. 10, pp. 4767 – 4771, Oct. 2008

J85. W. P. Tay, J. N. Tsitsiklis, and M. Z. Win, "Data fusion trees for detection: Does architecture matter?" *IEEE Transactions on Information Theory*, vol. 54, no. 9, pp. 4155 – 4168, Sep. 2008

J86. W. P. Tay, J. N. Tsitsiklis, and M. Z. Win, "On the impact of node failures and unreliable communications in dense sensor networks," *IEEE Transactions on Signal Processing*, vol. 56, no. 6, pp. 2535 – 2546, Jun. 2008

J87. W. P. Tay, J. N. Tsitsiklis, and M. Z. Win, "Asymptotic performance of a censoring sensor network," *IEEE Transactions on Information Theory*, vol. 53, no. 11, pp. 4191 – 4209, Nov. 2007

2.4   Refereed Conference Proceedings

C1. W. Cui, X. Li, Y. Li, Y. Ma, Q. Kang, X. Fu, W. P. Tay, and Z.-J. Zha, "Generalized fractional neural differential equation network with learnable attention kernels," in *Advances in Neural Information Processing Systems*, San Diego, USA, Dec. 2025

C2. W. Liang, Y. Zhao, R. She, Y. Li, and W. P. Tay, "Personalized subgraph federated learning with sheaf collaboration," in *Proc. European Conference on Artificial Intelligence*, Bologna, Italy, Oct. 2025

C3. P. Zhang, F. Ji, Y. Zhao, W. P. Tay, and B. Wen, "Distance-based laplacian algebra for effective subgraph filter learning," in *Asia Pacific Signal and Information Processing Association Annual Summit and Conference*, Singapore, Oct. 2025

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C129. W. P. Tay, J. N. Tsitsiklis, and M. Z. Win, "Data fusion trees for detection: Does architecture matter?" in *Proc. Allerton Conference on Communications, Control and Computing*, Monticello, USA, Sep. 2006

C130. W. P. Tay, J. N. Tsitsiklis, and M. Z. Win, "Asymptotically optimal distributed censoring," in *Proc. IEEE International Symposium on Information Theory*, Seattle, USA, Jul. 2006, pp. 625–629

C131. W. P. Tay, J. N. Tsitsiklis, and M. Z. Win, "Censoring sensors: Asymptotics and the value of cooperation," in *Proc. Conference on Information Science and Systems*, Princeton, USA, Mar. 2006, pp. 62–67

2.5 Book Chapters and Monographs

B1. X. Jian, F. Ji, and W. P. Tay, "Generalizing graph signal processing: High dimensional spaces, models and structures," *Foundations and Trends® in Signal Processing*, vol. 17, no. 3, pp. 209–290, 2023. [Online]. Available: http://dx.doi.org/10.1561/2000000119

B2. F. Ji, W. Tang, J. Yang, and W. P. Tay, "Online information spreading and source identification," in *Online Social Networks: Perspectives, Applications and Developments*, C. W. Tan, Ed. Hauppauge, NY: Nova Science Publishers, Inc., 2020, ch. 4

B3. R. Rabiee, I. Bajaj, and W. P. Tay, "Vehicle localization in GNSS-denied environments," in *Cooperative Localization and Navigation: Theory, Research, and Practice*, C. Gao, G. Zhao, and H. Fourati, Eds. Boca Raton, FL: CRC Press, 2019, ch. 11, pp. 199 – 222

B4. M. Leng and W. P. Tay, "Fundamental limits of self-localization for cooperative robotic platforms using signals of opportunity," in *Cooperative Robots and Sensor Networks 2015*, ser. Studies in Computational Intelligence, A. Koubâa and J. R. M. de Dios, Eds. Cham: Springer, 2015, vol. 604, pp. 159 – 181

B5. W. P. Tay and J. N. Tsitsiklis, "Error exponents for decentralized detection in tree networks," in *Networked Sensing Information and Control*, V. Saligrama, Ed. Boston, MA: Springer, 2008, pp. 73 – 92

2.6 Thesis

1. W. P. Tay, "Decentralized detection in resource-limited sensor network architectures," Ph.D. dissertation, Massachusetts Institute of Technology, Dec. 2007

2.7 Other Publications

O1. Z. Madadi, F. Quitin, and W. P. Tay, "Vehicle localization using periodic transmissions from an RSU in GNSS denied environments," in *Proc. ITS Asia-Pacific Forum*, Nanjing, China, Apr. 2015

O2. Y. Nijsure, W. P. Tay, and E. Gunawan, "An impulse radio ultra wideband system for contactless non-invasive respiratory monitoring," *Asia Pacific BioTech News*, vol. 16, no. 10, pp. 28–31, Oct. 2012 , *invited paper*

2.8 Patents and Disclosures

2.8.1 Patents Filed

PF1. S. Wang, R. She, Q. Kang, T. Geng, and W. P. Tay, "System and method for processing image data," Singapore PCT SG2025/050 428, Jun. 25, 2025

PF2. C. Jin, W. P. Tay, K. Zhao, K. V. Ling, and J. Lu, "Device, positioning system and method of determining a position of the device for vehicular communication," Singapore Patent Application 11 202 501 107V, Sep. 19, 2023

PF3. Q. Kang, R. She, W. P. Tay, N. D. Navarro, R. Khurana, A. Hartmannsgruber, and Y. L. Guan, "Position determination of a vehicle using image segmentations," PCT EP2023/063 085, May 16, 2023

PF4. R. She, Q. Kang, S. Wang, W. P. Tay, N. D. Navarro, and A. Hartmannsgruber, "Computer-implemented method for estimating a position and/or pose of a vehicle," PCT EP2024/061 019, Apr. 23, 2024

PF5. S. Wang, Q. Kang, R. She, W. P. Tay, N. D. Navarro, and A. Hartmannsgruber, "A computer-implemented method for camera pose regression in a challenging traffic environment," UK Patent Application 202 216 510, Nov. 7, 2022

PF6. Q. Kang, R. She, W. P. Tay, R. Khuarana, N. D. Navarro, S. Wang, and A. Hartmannsgruber, "Method for image segmentation matching," PCT EP2023/063 041, May 17, 2022

PF7. F. Ji, Pratibha, and W. P. Tay, "Methods and systems for recovering folded signals," PCT SG2020/050 631, May 14, 2021

PF8. C. Jin, I. Bajaj, K. Zhao, W. P. Tay, and K. V. Ling, "5G positioning using code phase and carrier phase receiver," PCT SG2021/050 732, Nov. 27, 2020

2.8.2 Patents Granted

PG1. Y. Wang, W. P. Tay, J. S. Kee, and K. Thangamariappan, "Wireless sensor network, parameter optimization method thereof and warehouse system," China Patent 111 148 109, May 12, 2020

PG2. Y. Wang, W. P. Tay, J. S. Kee, and K. Thangamariappan, "Wireless sensor network and parameter optimization method thereof, and warehouse system," U.S. Patent 20 200 146 103, May 7, 2020

2.8.3 Technology Disclosures

TD1. X. Ran, W. P. Tay, and C. H. T. Lee, "A deep reinforcement learning-based novel false data injection attack detection in power systems," Singapore Technology Disclosure NTU Ref: 2022-411, Nov. 9, 2022

TD2. W. Wang, M. Yang, Y. L. Guan, and W. P. Tay, "Intelligent transportation system runtime middleware," Singapore Technology Disclosure NTU Ref: 2021-269, May 31, 2021

TD3. C. Wang, Q. Zhang, and W. P. Tay, "Energy efficient decentralized real-time multi-camera multi-target recognition and tracking system," Singapore Technology Disclosure NTU Ref: 2020-388, Dec. 1, 2020

TD4. C. Yang, M. Yang, Y. L. Guan, and W. P. Tay, "Intelligent transportation system use-case software package," Singapore Technology Disclosure NTU Ref: 2020-028, Feb. 6, 2020

TD5. W. P. Tay, X. Zhong, R. Rabiee, and Y. Yan, "Lane-level vehicle tracker for V2X communication systems," NTU Copyright TD/206/17, Oct. 12, 2017

TD6. X. He, W. P. Tay, and M. Sun, "Privacy engine for IoT device networks," NTU Copyright TD/071/16, May 26, 2016

TD7. W. P. Tay, F. Quitin, and Z. Madadi, "Geolocation using virtual TDOA with asynchronous clocks," NTU Copyright TD/249/14, Jan. 9, 2015

TD8. W. P. Tay and F. Quitin, "Localization of non-cooperative RF targets in cluttered environments," NTU Copyright TD/078/14, Jun. 24, 2014

TD9. W. Hu and W. P. Tay, "A generalized diffusion adaptation strategy for energy-constrained estimation," NTU Copyright TD/077/14, May 30, 2014

TD10. W. P. Tay, E. Gunawan, and Y. L. Guan, "Method for contactless respiratory monitoring using multiple UWB transceivers," NTU Copyright TD/215/12, Feb. 26, 2012

2.9 Selected Invited Talks

- "Advanced graph signal processing," IEEE International Conference on Acoustics, Speech and Signal Processing, May 2022, tutorial
- "Data-driven privacy sanitization with regularization," invited talk at Kookmin University, South Korea, Feb. 2022
- "Privacy for IoT: Signal processing theories and methods," 7th IEEE World Forum on the Internet of Things, New Orleans, USA, Jun. 2021, tutorial
- "COSMO: Next gen V2X architecture & ecosystem for smart mobility," Advanced Manufacturing and Engineering Day, Feb. 2021, invited presentation
- "Generalized graph signal processing," 7th IEEE Global Conference on Signal and Information Processing (GlobalSIP), Ottawa, Canada, Nov. 2019, keynote speaker (distinguished presentation)
- "Inference and data privacy in IoT networks," IEEE Workshop on Signal Processing Advances in Wireless Commun., Hokkaido, Japan, Jul. 2017, invited presentation
- "Posterior Cramér-Rao lower bound for mobile emitter tracking based on a TDOA-FDOA multi-measurement model," IEEE Int. Conf. on Ubiquitous Wireless Broadband, Nanjing, China, Oct. 2016, invited presentation

- "TDOA-FDOA multiple target detection and tracking in the presence of measurement errors and biases," IEEE Workshop on Signal Proc. Advances in Wireless Commun., Edinburgh, UK, Jul. 2016, invited presentation
- "Joint resource segmentation and transmission rate adaptation in cloud RAN with caching as a service," IEEE Workshop on Signal Proc. Advances in Wireless Commun., Edinburgh, UK, Jul. 2016, invited presentation
- "Algorithms for network infection sources estimation," Chongqing University, Jun. 2016, invited presentation
- "Proof of concept study using DSRC, IMU and map fusion for vehicle localization in GNSS-denied environments," Chongqing University of Posts and Telecommunications, Jun. 2016, invited presentation
- "Towards information privacy for the Internet of Things," International Conference on Communications and Networking in China (Chinacom), Chonqqing, China, Jun. 2016, invited presentation
- "Towards system cost minimization in cloud radio access network," Asilomar Conf. on Signals, Systems and Computers, Asilomar, USA, Nov. 2015, invited presentation
- "Network infection sources estimation," University of Illinois at Urbana-Champaign, USA, Jul. 2015, Tan Chin Tuan Fellow seminar
- "Asymptotics in social learning", University of Illinois at Urbana-Champaign, USA, Jul. 2015, Tan Chin Tuan Fellow seminar
- "Joint scheduling and localization in UWB networks," IEEE Int. Conf. on Commun., London, UK, Jun. 2015, invited presentation
- "Whose opinion to follow in social learning?", IEEE Taiwan-Hong Kong Joint Workshop on Information Theory and Communications, Hong Kong, Jan. 2015, invited presentation
- "Cross-layer resource allocation in cloud radio access network," IEEE Global Conf. on Signal and Information Processing, Atlanta, US, Dec. 2014, invited presentation
- "GPS-free localization using asynchronous beacons," IEEE Int. Conf. on Mobile Ad-hoc and Sensor Networks, Chengdu, China, Dec. 2012, invited presentation
- "Identifying multiple infection sources in a network," Asilomar Conf. on Signals, Systems and Computers, Asilomar, USA, Nov. 2012, invited presentation
- "Randomized rumor spreading in non-static networks," IEEE Int. Conf. on ICT Convergence, Seoul, Korea, Sep. 2011, invited presentation

3 Educational Activities

3.1 Completed Ph.D. Dissertation Supervisions

1. Luo Wuqiong, 08/2010 – 08/2014, "Identifying infection sources in a network."

2. Tang Jianhua, 01/2011 – 01/2015, "Elastic service scaling optimization in cloud-based communication systems."

3. Muhammad Sibtain Hamayun, 08/2010 – 08/2015, "Exploiting statistical side information to optimize secondary spectrum access."

4. Zhang Yi, 01/2011 – 01/2015, "Learning methods for temporal-spatial opportunistic spectrum access in cognitive radio networks."

5. Sun Meng, 08/2014 – 08/2018, "Privacy-preserving decentralized detection in sensor networks."

6. Wang Yuan, 08/2012 – 08/2018, "Cooperative inference and learning for Internet-of-Things with limited resources."

7. Ho Jun Feng Jack, 08/2012 – 11/2018, "Learning models in social networks."

8. Yang Jielong, 08/2015 – 08/2019, "On truth finding in multi-agent networks."

9. Tang Wenchang, 08/2015 – 08/2019, "Identifying misinformation and their sources in social networks."

10. Kang Qiyu, 08/2015 – 08/2019, "Sequential crowdsourcing and recommendation strategies."

11. Lau Tze Siong, 08/2015 – 01/2020, "Operationally constrained quickest change detection with multiple post-change distributions." Commendation for EEE Doctorate Research Excellence Award.

12. Wang Chongxiao, 08/2016 – 12/2021, "Inference privacy preservation in linear and computational systems."

3.2   Current Ph.D. Dissertation Supervisions

1. Lu Yiqi, 08/2018 – present, "Machine learning for inference in graphs."

2. Lee See Hian, 08/2019 – present, "E-commerce knowledge graphs."

3. Vivek Mohan, 01/2020 – present, "Unconventional sampling algorithms and hardware for brain-machine interfaces."

4. Jian Xingchao, 08/2020 – present, "Processing stochastic time-varying signals over graphs."

5. Zhao Kai, 01/2021 – present, "Graph neural networks for multi-sensor pattern recognition."

6. Wang Sijie, 08/2021 – present, "Segmentation in autonomous driving environment."

7. Zhang Purui, 08/2022 – present, "High-order graph signal processing and neural networks."

8. Li Disheng, 01/2023 – present, "Machine learning methods for urban localization."

9. Liang Wenfei, 01/2023 – present, "Federated learning for graph neural networks."

10. Zhao Yanan, 01/2023 – present, "Generalized graph signal processing over simplicial complexes."

3.3   Completed M.Eng. Dissertation Supervisions

1. Cheng Chi, 08/2011 – 05/2015, "Exploring the use of signals-of-opportunity for practical localization."

3.4   Courses Taught

- EE7401, Probability and Random Processes (about 70 students per course).
- IE4497, Pattern Recognition and Deep Learning (about 25 students per course).
- IE0005, Introduction to Data Science and Artificial Intelligence (about 500 students per course).
- EE2008/IM1001, Data Structures and Algorithms (about 300 students per course).
- EE4105/IM4105, Cellular Communication System Design (about 110 students per course).
- EE6713, Network Design and Simulation (about 40 students per course).
- EE7101, Fundamentals of Information Theory (about 10 students per course).

3.5   Courses Developed

- 2012, proposed and developed new course EE7101 – Fundamentals of Information Theory.
- 2015, developed new course materials for EE2008/IM1001 – Data Structures and Algorithms due to increase of weekly lecture hours from 2 hours to 3 hours.
- 2015, developed Technology Enabled Learning video lectures and online learning activities for EE2008/IM1001 – Data Structures and Algorithms.

- 2015, coordinated and developed online assessment and practice (OASIS) for EE2008/IM1001 – Data Structures and Algorithms.
- 2021, revamped and developed new course materials for EE4497 Pattern Recognition and Machine Learning.

4 Professional Activities

4.1 University/National Committee Activities

- Member, School Review Committee for Promotion and Tenure, School of Art, Design and Media, Jul. 2024 – present.
- Member, Technical Committee on Intelligent Transport System, Enterprise Singapore, Jul. 2022 – Dec. 2024.
- Member, Academic Institutions Curriculum Advisory Committee, Singapore 5G & Telecoms Academy, Jun. 2021 – Dec. 2023.
- Associate Chair (Faculty), School of Electrical and Electronic Engineering, Jul. 2025 – present.
- Associate Chair (Academic), School of Electrical and Electronic Engineering, Feb. 2020 – Jun. 2025.
- Assistant Chair (Academic), School of Electrical and Electronic Engineering, Jun. 2017 – Jan. 2020.
- Member, NTU Presidential Postdoctoral Fellowship 2023 Evaluation Committee, Jun. 2023.
- Cluster Director, Cyber Physical System for Critical Information Infra-structure Research Program, Energy Research Institute, Apr. 2019 – 31 Mar. 2025.
- Program Director, Advanced Sensing Technologies, Centre for Information Sciences and Systems, Jan. 2020 – present.
- Program Director, Cyber and Network Security, INFINITUS, Centre for Infocomm Technology, Jan. 2015 – Sep. 2016.
- Program Director, Communications and Network Systems, INFINITUS, Centre for Infocomm Technology, Jan. 2013 – Dec. 2014.
- Member, School of EEE outreach committee Jan. 2013 – Dec. 2013.

4.2 Professional Society Activities

- Academy Mentor, EURASIP Academy, 2024 – present.
- Subject Editor, Signal Processing, Elsevier, 2024 – present.
- Associate Editor, IEEE Internet of Things Journal, 2023 – present.
- Associate Member, Signal Processing Theory and Methods Technical Committee, IEEE Signal Processing Society, 2023 – present.
- Associate Editor, IEEE Transactions on Signal and Information Processing over Networks, 2019 – 2024.
- Editor, IEEE Open Journal of Vehicular Technology, 2019 – 2023.
- Editor, IEEE Transactions on Wireless Communications, 2017 – 2023.
- Associate Editor, IEEE Transactions on Signal Processing, 2015 – 2019.
- Guest Editor, IEEE Transactions on Signal and Information Processing over Networks Special Issue on Distributed Information Processing in Social Networks, 2016 – 2017.
- Member, Machine Learning for Signal Processing Technical Committee, IEEE Signal Processing Society, 2015 – 2020.

- Member, Internet of Things Special Interest Group, IEEE Signal Processing Society, 2015 – 2019.
- Chair, Interest Group on Distributed and Sensor Networks for Mobile Media Computing and Applications, IEEE Communications Society Technical Committee on Multimedia Communications, 2014.
- Vice-Chair, Interest Group on Green Multimedia Communications, IEEE Communications Society Technical Committee on Multimedia Communications, 2012 – 2014.

4.3   Conference Organizing Committees

- Program Co-Chair, International Conference on Signal Processing and Information Communications (ICSPIC), 2023.
- Signal Processing Grand Challenges Co-chair, IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2022.
- Web Chair, IEEE Global Communications Conference (Globecom), 2017.
- Tutorial Chair, International Conference on Information, Communications and Signal Processing, 2015.
- Organizer of special session on "Signal processing for social networks" in IEEE Conference on Digital Signal Processing, 2015.
- Publicity Chair, International Conference on Information, Communications and Signal Processing, 2013.
- Organizer of special session on "Emerging technologies in cooperative communication networks" in IEEE International Conference on Information, Communications and Signal Processing, 2011.
- Session chair
  - IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP) 2015, 2016, 2017, 2018, 2019, 2020, 2022
  - IEEE Global Conference on Signal and Information Processing (GlobalSIP) 2018, 2019

4.4   Technical Program Committees

- International Conference on Machine Learning (ICML) 2024 – present
- International Conference on Learning Representations (ICLR) 2024 – present
- Neural Information Processing Systems (NeurIPS) 2023 – present
- International Joint Conference on Artificial Intelligence (IJCAI) 2022 – present
- AAAI Conference on Artificial Intelligence 2021 – present
- European Signal Processing Conference (EUSIPCO) 2017 – present
- IEEE Global Conference on Signal and Information Processing (GlobalSIP) 2017, 2018, 2019
- IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP) 2016 – present
- IEEE International Workshop on Machine Learning for Signal Processing (MLSP) 2015 – present