Kejun Huang

CONTACT INFORMATION

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ACADEMIC EMPLOYMENTS

Associate Professor Aug. 2025 – Present
Assistant Professor Aug. 2018 – Aug. 2025
Department of Computer and Information Science and Engineering, University of Florida
Postdoctoral Associate Sept. 2016 – July 2018
Department of Electrical and Computer Engineering, University of Minnesota

EDUCATION

Ph.D. in Electrical Engineering University of Minnesota, 2016
B.ENG. Nanjing University of Information Science and Technology, 2010

RESEARCH AWARDS

13th IEEE Sensor Array and Multichannel Signal Processing Workship (2024) Student Paper Competition Honorable Mention to Y. Sun for "Improved Identifiability and Sample Complexity Analysis of Complete Dictionary Learning" co-authored with K. Huang.

13th IEEE Sensor Array and Multichannel Signal Processing Workship (2024) Student Paper Competition Honorable Mention to J. Hu for "Frank-Wolfe Algorithm for Simplicial and Nonnegative Component Analysis" co-authored with K. Huang.

NSF CAREER Award (2023) for "CAREER: Principled Unsupervised Learning via Minimum Volume Polytopic Embedding", 2023–2028.

IEEE SPS Donald G. Fink Overview Paper Award (2022) for "Tensor Decomposition for Signal Processing and Machine Learning" by N. Sidiropoulos, L. De Lathauwer, X. Fu, K. Huang, E. Papalexakis, and C. Faloutsos (2017).

SIGBio ACM-BCB Best Student Paper Award (2022) to A. Bumin for "FiT: Fiber-based Tensor Completion for Drug Repurposing" co-authored with A. Ritz, D. Slonim, T. Kahveci, and K. Huang (2022).

TEACHING

COT 4501 Numerical Analysis: A Computational Approach
COT 5615 Math for Intelligent Systems
CAP 6610 Machine Learning
CAP 6617 Advanced Machine Learning

PUBLICATIONS

Summary: Journal 23, Conference 42
Citation: 4912, h-index: 27, source: Google Scholar – Aug. 22, 2025

C. Mackey, Y. Feng, C. Liang, A. Liang, H. Tian, O. Narayan, J. Dong, Y. Tai, J. Hu, Y. Mu, Q. Vo, L. Wu, D. Siemann, J. Pan, X. Yang, **K. Huang**, T. George, J. Guan, X. Tang, "Mechanical Modulation, Physiological Roles, and Imaging Innovations of Intercellular Calcium Waves in Living Systems", *Cancers*, 17(11):1851, 2025.

Y. Sun and **K. Huang**, "Global Identifiability of Overcomplete Dictionary Learning via L1 and Volume Minimization", in *International Conference on Learning Representations (ICLR)*, 2025, Singapore. (acceptance rate: 32.08%)

Y. Sun and **K. Huang**, "Improved Identifiability and Sample Complexity Analysis of Complete Dictionary Learning", in *IEEE Sensor Array and Multichannel Signal Processing Workshop (SAM)*, 2024, Corvallis, OR.

J. Hu and **K. Huang**, "Frank-Wolfe Algorithm for Simplicial and Nonnegative Component Analysis", in *IEEE Sensor Array and Multichannel Signal Processing Workshop (SAM)*, 2024, Corvallis, OR.

J. Hu and **K. Huang**, "Complex Bounded Component Analysis: Identifiability and Algorithm", in *IEEE International Conference on Acoustic, Speech, and Signal Processing (ICASSP)*, 2024, Seoul, Korea.

J. Hu and **K. Huang**, "Global Identifiability of ℓ_1-based Dictionary Learning via Matrix Volume Optimization", in *Advances in Neural Information Processing Systems (NeurIPS)*, 2023, New Orleans, LA. (acceptance rate: 26.1%)

A. Bumin, **K. Huang**, and T. Kahveci, "PartialFibers: An efficient method for predicting Drug-Drug Interactions", in *International Conference on Computational Advances in Bio and Medical Sciences (ICCABS)*, 2023, Norman, OK.

A. Bumin, M. Shah, **K. Huang**, and T. Kahveci, "Vulture: VULnerabilities in impuTing drUg REsistance", in *ACM Conference on Bioinformatics, Computational Biology, and Health Informatics (ACM BCB)*, 2023, Houston, TX.

Y. Sun and **K. Huang**, "Volume-regularized Nonnegative Tucker Decomposition with Identifiability Guarantees", in *IEEE International Conference on Acoustic, Speech, and Signal Processing (ICASSP)*, 2023, Rhodes Island, Greece.

J. Hu and **K. Huang**, "Identifiable Bounded Component Analysis via Minimum Volume Enclosing Parallelotope", in *IEEE International Conference on Acoustic, Speech, and Signal Processing (ICASSP)*, 2023, Rhodes Island, Greece.

D. A. Shifman, I. Cohen, **K. Huang**, X. Xian, G. Singer, "An adaptive machine learning algorithm for the resource-constrained classification problem", *Engineering Applications of Artificial Intelligence*, 119:105741, Mar. 2023.

A. Bumin and **K. Huang**, "Stochastic Douglas-Rachford Splitting for Regularized Empirical Risk Minimization: Convergence, Mini-batch, and Implementation", *Transactions on Machine Learning Research*, 2023.

A. Bumin, A. Ritz, D. Slonim, T. Kahveci, and **K. Huang**, "FiT: Fiber-based Tensor Completion for Drug Repurposing", in *ACM Conference on Bioinformatics, Computational Biology, and Health Informatics (ACM BCB)*, 2022, Chicago, IL. **(SIGBio ACM-BCB Best Student Paper Award)**

Y. Ren, A. Sarkar, A. Bumin, **K. Huang**, P. Veltri, A. Dobra, and T. Kahveci, " Identification of Co-existing Embeddings of A Motif in Multilayer Networks", in *ACM Conference on Bioinformatics, Computational Biology, and Health Informatics (ACM BCB)*, 2022, Chicago, IL.

Y. Sun and **K. Huang**, "HOQRI: Higher-order QR Iteration for Scalable Tucker Decomposition", in *IEEE International Conference on Acoustic, Speech, and Signal Processing (ICASSP)*, 2022, Singapore.

A. Bumin and **K. Huang**, "Efficient Implementation of Stochastic Proximal Point Algorithm for Matrix and Tensor Completion", in *European Signal Processing Conference (EUSIPCO)*, 2021, Virtual.

S. Lu, M. Razaviyayn, B. Yang, **K. Huang**, and M. Hong, "Finding Second-Order Stationary Points Efficiently in Smooth Nonconvex Linearly Constrained Optimization Problems", in *Advances in Neural Information Processing Systems (NeurIPS)*, 2020, Virtual. (acceptance rate: 20%)

X. Fu, N. Vervliet, L. De Lathauwer, **K. Huang**, and N. Gillis, "Computing Large-Scale Matrix and Tensor Decomposition with Structured Factors: A Unified Nonconvex Optimization Perspective", *IEEE Signal Processing Magazine*, 37(5):78–94, 2020.

B. Yang, X. Fu, N. D. Sidiropoulos, and **K. Huang**, "Learning Nonlinear Mixtures: Identifiability and Algorithm", *IEEE Transactions on Signal Processing*, 68:2857-2869, 2020.

▷ Part of the result appears in

B. Yang, X. Fu, N. D. Sidiropoulos, and **K. Huang**, "Unsupervised Learning of Nonlinear Mixtures: Identifiability and Algorithm", in *Asilomar Conference on Signals, Systems, and Computers (Asilomar)*, 2019, Pacific Grove, CA.

X. Fu, S. Ibrahim, H.-T. Wai, C. Gao, and **K. Huang**, "Block-Randomized Stochastic Proximal Gradient for Low-Rank Tensor Factorization", *IEEE Transactions on Signal Processing*, 60:2170-2185, 2020.

▷ Part of the result appears in

X. Fu, C. Gao, H.-T. Wai, and **K. Huang**, "Block-Randomized Stochastic Proximal Gradient for Constrained Low-Rank Tensor Factorization", in *IEEE International Conference on Acoustic, Speech, and Signal Processing (ICASSP)*, 2019, Brighton, UK.

K. Huang and X. Fu, "Low-complexity Levenberg-Marquardt Algorithm for Tensor Canonical Polyadic Decomposition", in *IEEE International Conference on Acoustic, Speech, and Signal Processing (ICASSP)*, 2020, Barcelona, Spain.

B. Yang, **K. Huang**, and N. D. Sidiropoulos, "Identifying Potential Investors with Data Driven Approaches", in *SIAM International Conference on Data Mining (SDM)*, 2020, Cincinnati, OH. (acceptance rate: 24%)

G. Zhang, X. Fu, **K. Huang**, and J. Wang, "Hyperspectral Super-Resolution: A Coupled Nonnegative Block-Term Tensor Decomposition Approach", in *IEEE International Workshop on Computational Advances in Multi-Sensor Adaptive Processing (CAMSAP)*, 2019, Guadeloupe, West Indies.

S. Ibrahim, X. Fu, N. Kargas, and **K. Huang**, "Crowdsourcing via Pairwise Co-occurrences: Identifiability and Algorithms", in *Neural Information Processing Systems (NeurIPS)*, 2019, Vancouver, Canada. (acceptance rate: 21.2%)

K. Huang and X. Fu, "Low-complexity Proximal Gauss-Newton Algorithm for Nonnegative Matrix Factorization", in *IEEE Global Conference on Signal and Information Processing (GlobalSIP)*, 2019, Ottawa, Canada.

X. Fu and **K. Huang**, "Block-Term Tensor Decomposition via Constrained Matrix Factorization", in *IEEE International Workshop on Machine Learning for Signal Processing (MLSP)*, 2019, Pittsburgh, PA.

K. Huang and X. Fu, "Detecting Overlapping and Correlated Communities without Pure Nodes: Identifiability and Algorithm", in *International Conference on Machine Learning (ICML)*, 2019, Long Beach, CA. (acceptance rate: 22.5%)

K. Huang, Z. Yang, Z. Wang, and M. Hong, "Learning Partially Observable Markov Decision Processing using Coupled Canonical Polyadic Decomposition", in *IEEE Data Science Workshop (DSW)*, 2019, Minneapolis, MN.

S. Lu, Z. Zhao, **K. Huang**, M. Hong, "Perturbed Projected Gradient Descent Converges to Approximate Second-Order Points For Bound Constrained Nonconvex Problems", in *IEEE International Conference on Acoustic, Speech, and Signal Processing (ICASSP)*, 2019, Brighton, UK.

X. Fu, **K. Huang,** N. D. Sidiropoulos, and W.-K. Ma, "Nonnegative Matrix Factorization for Signal and Data Analytics: Identifiability, Algorithms, and Applications", *IEEE Signal Processing Magazine*, 36(2):59–80, Mar. 2019.

K. Huang, X. Fu, and N. D. Sidiropoulos, "Learning Hidden Markov Models from Pairwise Co-occurrences with Application to Topic Modeling", in *International Conference on Machine Learning (ICML)*, 2018, Stockholm, Sweden. (acceptance rate: 25%)

X. Fu, **K. Huang**, E. E. Papalexakis, H. Song, P. P. Talukdar, N. D. Sidiropoulos, C. Faloutsos, T. Mitchell, "Efficient and Distributed Generalized Canonical Correlation Analysis for Big Multiview Data", *IEEE Transactions on Knowledge and Data Engineering*, 31(12):2304–2318, Dec. 2019.

▷ Part of the result appears in

X. Fu, **K. Huang**, E. E. Papalexakis, H. Song, P. P. Talukdar, N. D. Sidiropoulos, C. Faloutsos, and T. Mitchell, "Efficient and Distributed Algorithms for Large-Scale Generalized Canonical Correlations Analysis", in *IEEE International Conference on Data Mining (ICDM)*, 2016, Barcelona, Spain. (acceptance rate: 19.6%)

X. Fu*, **K. Huang***, N. D. Sidiropoulos, Q. Shi, and M. Hong, "Anchor-Free Correlated Topic Modeling", *IEEE Transactions on Pattern Analysis and Machine Intelligence*, 41(5):1056–1071, May 2019.

S. Smith*, **K. Huang***, N. D. Sidiropoulos, and G. Karypis, "Streaming Tensor Factorization for Infinite Data Sources", in *SIAM International Conference on Data Mining (SDM)*, 2018, San Diego, CA. (acceptance rate: 23.2%)

X. Fu*, **K. Huang***, and N. D. Sidiropoulos, "On Identifiability of Nonnegative Matrix Factorization", *IEEE Signal Processing Letters*, 25(3):328–332, Mar. 2018.

K. Huang, X. Fu, and N. D. Sidiropoulos, "On Convergence of Epanechnikov Mean Shift", in *AAAI Conference on Artificial Intelligence (AAAI)*, 2018, New Orleans, LA. (acceptance rate: 25%)

A. P. Liavas, G. Kostouloas, G. Lourakis, **K. Huang**, and N. D. Sidiropoulos, "Nesterov-based Alternating Optimization for Nonnegative Tensor Factorization: Algorithm and Parallel Implementation", *IEEE Transactions on Signal Processing*, 66(4):944–953, Feb. 2018.

▷ Part of the result appears in

A. P. Liavas, G. Kostoulas, G. Lourakis, **K. Huang**, and N. D. Sidiropoulos, "Nesterov-based Parallel Algorithm for Large-scale Nonnegative Tensor Factorization", in *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 2017, New Orleans, LA.

K. Huang and N. D. Sidiropoulos, "Kullback-Leibler Principal Component for Tensors is not NP-hard", in *Asilomar Conference on Signals, Systems, and Computers (Asilomar)*, 2017, Pacific Grove, CA.

X. Fu, **K. Huang**, O. Stretcu, H. Song, E. E. Papalexakis, P. P. Talukdar, T. Mitchell, N. D. Sidiropoulos, C. Faloutsos, and B. Poczos, "BrainZoom: High Resolution Reconstruction from Multi-modal Brain Signals", in *SIAM International Conference on Data Mining (SDM)*, 2017, Houston, TX. (acceptance rate: 26%)

K. Huang and Y. C. Eldar, "Phase Retrieval Using a Conjugate Symmetric Reference", in *International Conference on Sampling Theory and Applications (SampTA)*, 2017, Tallinn, Estonia.

X. Fu, **K. Huang**, M. Hong, N. D. Sidiropoulos, and A. M. C. So, "Scalable and Flexible Multiview MAX-VAR Canonical Correlation Analysis", *IEEE Transactions on Signal Processing*, 65(16):4150–4165, Aug. 2017.

▷ Part of the result appears in

X. Fu, **K. Huang**, M. Hong, N. D. Sidiropoulos, and A. M.-C. So, "Scalable and Flexible MAX-VAR Generalized Canonical Correlation Analysis via Alternating Optimization", in *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 2017, New Orleans, LA.

N. D. Sidiropoulos, L. De Lathauwer, X. Fu, **K. Huang**, E. E. Papalexakis, and C. Faloutsos, "Tensor Decomposition for Signal Processing and Machine Learning (overview article)", *IEEE Transactions on Signal Processing*, 65(13):3551–3582, July 2017. **(2022 IEEE SPS Donald G. Fink Overview Paper Award)**

K. Huang*, X. Fu*, and N. D. Sidiropoulos, "Anchor-free Correlated Topic Modeling: Identifiability and Algorithm", in *Conference on Neural Information Processing Systems (NIPS)*, 2016, Barcelona, Spain. (acceptance rate: 22.7%)

X. Fu, **K. Huang**, B. Yang, W.-K. Ma, and N. D. Sidiropoulos, "Robust Volume Minimization-based Matrix Factorization for Remote Sensing and Document Clustering", *IEEE Transactions on Signal Processing*, 64(23):6254–6268, Dec. 2016.

▷ Part of the result appears in

X. Fu, W.-K. Ma, **K. Huang**, and N. D. Sidiropoulos, "Robust Volume Minimization-based Matrix Factorization via Alternating Optimization", in *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 2016, Shanghai, China.

K. Huang, Y. C. Eldar, and N. D. Sidiropoulos, "Phase Retrieval from 1D Fourier Measurements: Convexity, Uniqueness, and Algorithms", *IEEE Transactions on Signal Processing*, 64(23):6105–6117, Dec. 2016.

▷ Part of the result appears in

K. Huang, Y. C. Eldar, and N. D. Sidiropoulos, "On Convexity and Identifiability in 1-D Fourier Phase Retrieval", in *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 2016, Shanghai, China.

K. Huang and N. D. Sidiropoulos, "Consensus-ADMM for General Quadratically Constrained Quadratic Programming", *IEEE Transactions on Signal Processing*, 64(20):5297–5310, Oct. 2016.

C. Qian, N. D. Sidiropoulos, **K. Huang**, L. Huang, and H.-C. So, "Phase Retrieval Using Feasible Point Pursuit: Algorithms and Cramér-Rao Bound", *IEEE Transactions on Signal Processing*, 64(20):5282–5296, Oct. 2016.

▷ Part of the result appears in

C. Qian, N. D. Sidiropoulos, **K. Huang**, L. Huang, and H.-C. So, "Least Squares Phase Retrieval Using Feasible Point Pursuit", in *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 2016, Shanghai, China.

K. Huang, N. D. Sidiropoulos, and A. P. Liavas, "A Flexible and Efficient Algorithmic Framework for Constrained Matrix and Tensor Factorization", *IEEE Transactions on Signal Processing*, 64(19):5052–5065, Oct. 2016.

▷ Part of the result appears in

K. Huang, N. D. Sidiropoulos, and A. P. Liavas, "Efficient Algorithms for 'Universally' Constrained Matrix and Tensor Factorization", in *European Signal Processing Conference (EUSIPCO)*, 2015, Nice, France.

X. Fu, **K. Huang**, W.-K. Ma, N. D. Sidiropoulos, and R. Bro, "Joint Tensor Factorization and Outlying Slab Suppression with Applications", *IEEE Transactions on Signal Processing*, 63(23):6315–6328, Dec. 2015.

M. Gardner*, **K. Huang***, E. E. Papalexakis, X. Fu, P. P. Talukdar, C. Faloutsos, N. D. Sidiropoulos, and T. Mitchell, "Translation Invariant Word Embeddings", in *Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2015, Lisbon, Portugal. (acceptance rate: 23.7%)

O. Mehanna, **K. Huang**, B. Gopalakrishnan, A. Konar, and N. D. Sidiropoulos, "Feasible Point Pursuit and Successive Approximation of Non-convex QCQPs", *IEEE Signal Processing Letters*, 22(7):804–808, July 2015.

X. Fu, W.-K. Ma, **K. Huang**, and N. D. Sidiropoulos, "Blind Separation of Quasi-stationary Sources: Exploiting Convex Geometry in Covariance Domain", *IEEE Transactions on Signal Processing*, 63(9):2306–2320, June 2015.

K. Huang, N. D. Sidiropoulos, E. E. Papalexakis, C. Faloutsos, P. P. Talukdar, and T. Mitchell, "Principled Neuro-Functional Connectivity Discovery", in *SIAM International Conference on Data Mining (SDM)*, 2015, Vancouver, Canada. (oral presentation, acceptance rate: 14.7%)

K. Huang and N. D. Sidiropoulos, "Putting NMF to the Test: A Tutorial Derivation of Pertinent Cramér-Rao Bounds and Performance Benchmarking", *IEEE Signal Processing Magazine*, 31(3):76–86, May 2014.

K. Huang, N. D. Sidiropoulos, and A. Swami, "Non-negative Matrix Factorization Revisited: Uniqueness and Algorithm for Symmetric Decomposition", *IEEE Transactions on Signal Processing*, 62(1):211–224, Jan. 2014.

▷ Part of the result appears in

K. Huang, N. D. Sidiropoulos, and A. Swami, "NMF revisited: new uniqueness results and algorithms", in *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, 2013, Vancouver, Canada.

COLLOQUIA

"HOQRI: Higher-order QR Iteration for Scalable Tucker Decomposition", SIAM Gator Seminar, University of Florida, Nov. 2024.

"A Unified Volume-optimization Framework for Identifiable Unsupervised Learning", SIAM Gator Seminar, University of Florida, Nov. 2023.

"HOQRI: Higher-order QR Iteration for Scalable Tucker Decomposition", Invited talk, Workshop on Sparse Tensor Computations, Chicago, Oct. 2023.

"Latent Variable Identification using Identifiable Matrix Factorization Methods", Plenary, 2022 Workshop on Low-Rank Models and Applications (LRMA), University of Mons, Belgium, Sept. 2022.

"Latent Variable Identification using Identifiable Matrix Factorization Methods", Department of Electrical and Computer Engineering, University of Florida, Sept. 2019.

"Latent Variable Identification using Identifiable Matrix Factorization Methods", School of Electrical Engineering and Computer Science, Oregon State University, Apr. 2019.

"Latent Variable Identification using Identifiable Matrix Factorization Methods", School of Software Engineering, Tongji University, Feb. 2019.

STUDENT ADVISING

Aysegul Bumin, Ph.D. (UF) Aug. 2023, "Efficient stochastic optimization algorithms for convex, non-convex problems". Applied Scientist, Amazon (Sept. 2023 – present).

Yuchen Sun, Ph.D. (UF) May 2025, "Identifiability and Algorithmic Advances in Complete and Overcomplete Dictionary Learning With Extensions to Tucker Decomposition". Software Engineer, Google (July 2025 – present).

Jingzhou Hu, Ph.D. (UF) Aug. 2025, "A Unified View for Identifiable Latent Representation Learning via Matrix Volume Optimization".

Current Ph.D. Students: Isaac Manring, Chenhao Wang.

Past M.S. students: Meghana Reddy Voladri, Jinghan Jia

RESEARCH GRANTS

National Science Foundation (NSF) 2023–2026: "Creating an All-optical, Mechanobiology-guided, and Machine-learning-powered High-throughput Framework to Elucidate Neural Dynamics", Co-PI $38,190 (total: $440,376; PI Xin Tang).

National Science Foundation (NSF) 2023–2028: "CAREER: Principled Unsupervised Learning via Minimum Volume Polytopic Embedding", sole PI $540,028.

National Institute of Health (NIH) 2022–2023: "Supplement: SCH: Enabling Data Outsourcing and Sharing for AI-powered Parkinson's Research", Co-PI $9,721 (total $281,290; PI Shigang Chen).

National Institute of Health (NIH) 2022–2026: "SCH: Enabling Data Outsourcing and Sharing for AI-powered Parkinson's Research", Co-PI $125,657 (total $1,197,929; PI Shigang Chen).

University of Florida Informatics Institute (UFII) 2020–2021: "Modern Computational Infrastructure for Coastal Flooding Modeling", *Junior SEED Fund Program*, PI $27,500 (total $30,000).

PROFESSIONAL ACTIVITIES

Member of IEEE, IEEE Signal Processing Society (SPS).

Member of IEEE SPS Machine Learning for Signal Processing (MLSP) Technical Committee (2019–2022).

Member of IEEE SPS Educational Board, Content Production Committee (2023–present)

Area chair for NeurIPS 2021–2024, ICML 2023–2025, ICLR 2024–2025.

Session chair for ICASSP 2023, SDM 2021, IEEE SAM 2020, ICASSP 2020, CAMSAP 2019, GlobalSIP 2019, and ICASSP 2019.

Reviewer for the following journals: IEEE Transactions on Signal Processing (TSP), IEEE Transactions on Image Processing (TIP), IEEE Journal of Selected Topics in Signal Processing (JSTSP), IEEE Signal Processing Magazine (SPM), IEEE Signal Processing Letters (SPL), Journal of Machine Learning Research (JMLR), Transactions on Machine Learning Research (TMLR), Machine Learning (Springer), IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), IEEE Transactions on Neural Networks and Learning Systems (TNNLS), IEEE Transactions on Geoscience and Remote Sensing (TGRS), IEEE Transactions on Computational Imaging (TCI), SIAM Journal on Matrix Analysis and Application (SIMAX), SIAM Journal on Scientific Computing (SISC), SIAM Journal on Imaging Sciences (SIIMS), IEEE Transactions on Signal and Information Processing over Networks (TSIPN), IEEE Transactions on Knowledge and Data Engineering (TKDE), ACM Transactions on Knowledge Discovery from Data (TKDD), IEEE/ACM Transactions on Computational Biology and Bioinformatics (TCBB), IEEE Transactions on Network Science and Engineering (TNSE), Data Mining and Knowledge Discovery (Springer), Signal Processing (Elsevier), EURASIP Journal on Advances in Signal Processing, Neurocomputing (Elsevier), Knowledge and Information Systems, Pattern Recognition Letters, International Journal of Computer Vision, International Journal of Robotics Research, IEEE Transactions on Wireless Communications (TWC), IEEE Transactions on Aerospace and Electronic Systems (TAES), IEEE Transactions on Vehicular Technology (TVT), IEEE Journal of Oceanic Engineering, Nucleic Acids Research, International Journal of Modern Physics B.

Reviewer or program committee for the following conferences: Neural Information Processing Systems (NeurIPS), International Conference on Machine Learning (ICML), IEEE International Conference on Acoustics, Speech, and Signal Processing (ICASSP), IEEE International Symposium on Information Theory (ISIT), SIAM International Conference on Data Mining (SDM), AAAI Conference on Artificial Intelligence (AAAI), International Joint Conference on Artificial Intelligence (IJCAI), ACM-SIAM Symposium on Discrete Algorithms (SODA), European Signal Processing Conference (EUSIPCO), IEEE Global Conference on Signal and Information Processing (GlobalSIP), IEEE International Workshop on Computational Advances in Multi-Sensor Adaptive Processing (CAMSAP), IEEE International Workshop on Machine Learning for Signal Processing (MLSP).