Heng Fan

Department of Computer Science and Engineering, University of North Texas
Room F284, Discovery Park, 3940 N Elm St, Denton, TX 76207
Email: heng.fan@unt.edu Tel: 940-565-3209
Homepage: https://hengfan2010.github.io

Research Interests

Computer Vision, Machine Learning and Medical Image Analysis

Education

Ph.D., Department of Computer Science, Stony Brook University, Stony Brook, NY, USA, 2021
- Dissertation: "*Algorithms and Benchmarks for Robust Visual Object Tracking*"
- Advisor: Prof. Haibin Ling
- Committee: Prof. Xianfeng Gu, Prof. Dimitris Samaras, Prof. Jie Yang

B.S., Computer Science & Technology, Huazhong Agricultural University, Wuhan, Hubei, China, 2013

Employment History

- Assistant Professor, University of North Texas — Denton, TX USA, 2021-now
  Department of Computer Science and Engineering

Honors and Awards

- Junior Faculty Research Award, 2024
  Department of Computer Science and Engineering, University of North Texas
- World's Top 2% Scientists by Standford University/Elsevier, 2021-2024
- ICCV Outstanding Reviewer Award, 2023
- CVPR Outstanding Reviewer Award, 2019

Publications

Google Scholar profile: https://scholar.google.com/citations?user=MVQYJiMAAAAJ

Selected Journal Articles

[1] Yifan Jiao, Xinran Liu, Xiaoqiong Liu, Xiaohui Yuan, Heng Fan, and Libo Zhang, "PlanarTrack: A High-quality and Challenging Benchmark for Large-scale Planar Object Tracking," *Computer Vision and Image Understanding (CVIU)*, 2025, in press.

[2] Libo Zhang*, Yongsheng Yu*, Jiali Yao, and Heng Fan, "High-Fidelity Image Inpainting with Multimodal Guided GAN Inversion," *International Journal of Computer Vision (IJCV)*, 133: 5788-5805, 2025. (*equal contribution)

[3] Yunhao Li, Zhen Xiao, Lin Yang, Dan Meng, Xin Zhou, Heng Fan, and Libo Zhang, "AttMOT: Improving Multiple-Object Tracking by Introducing Auxiliary Pedestrian Attributes," *IEEE Transactions on Neural Networks and Learning Systems (T-NNLS)*, 36(3): 5454-5468, 2025.

[4] Yawen Lu, Cheng Han, Qifan Wang, Heng Fan, Zhaodan Kong, Dongfang Liu, and Yingjie Chen, "Optical Flow as Spatial-Temporal Attention Learners," *IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI)*, 46(12): 11491-11506, 2024.

[5] Mingzhe Guo, Zhipeng Zhang, Yuan He, Ke Wang, Liping Jing, and Heng Fan, "Cyclic Refiner: Object-Aware Temporal Representation Learning for Multi-View 3D Detection and Tracking," *International Journal of Computer Vision (IJCV)*, 132: 6184–6206, 2024.

[6] Libo Zhang, Wenzhang Zhou, Heng Fan, Tiejian Luo, and Haibin Ling, "Robust Domain Adaptive Object Detection with Unified Multi-Granularity Alignment," *IEEE Transactions on Pattern*

Analysis and Machine Intelligence (PAMI), 46(12): 9161-9178, 2024.

[7] Mingzhe Guo, Zhipeng Zhang, Liping Jing, Haibin Ling, and Heng Fan, "Divert More Attention to Vision-Language Object Tracking," *IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI)*, 46(12): 8600-8618, 2024.

[8] Libo Zhang, Xin Gu, Congcong Li, Tiejian Luo, and Heng Fan, "Local Compressed Video Stream Learning for Generic Event Boundary Detection," *International Journal of Computer Vision (IJCV)*, 132: 1187–1204, 2024.

[9] Jifeng Shen, Teng Guo, Xin Zuo, Heng Fan, and Wankou Yang, "SSPNet: Scale and spatial priors guided generalizable and interpretable pedestrian attribute recognition," *Pattern Recognition (PR)*, 148: 110194, 2024.

[10] Jifeng Shen, Yifei Chen, Yue Liu, Xin Zuo, Heng Fan, and Wankou Yang, "ICAFusion: Iterative Cross-Attention Guided Feature Fusion for Multispectral Object Detection," *Pattern Recognition (PR)*, 145: 109913, 2024.

[11] Hao Wang, Libo Zhang, Heng Fan, and Tiejian Luo, "Collaborative Three-Stream Transformers for Video Captioning," *Computer Vision and Image Understanding (CVIU)*, 235: 103799, 2023.

[12] Libo Zhang*, Lutao Jiang*, Ruyi Ji, and Heng Fan, "PIDray: A Large-scale X-ray Benchmark for Real-World Prohibited Item Detection," *International Journal of Computer Vision (IJCV)*, 131: 3170-3192, 2023. (*equal contribution)

[13] Libo Zhang*, Junyuan Gao*, Zhen Xiao, and Heng Fan, "AnimalTrack: A Benchmark for Multi-Animal Tracking in the Wild," *International Journal of Computer Vision (IJCV)*, 131: 496-513, 2023. (*equal contribution)

[14] Qin Zhou, Runze Wang, Guodong Guo, Heng Fan, and Guoyan Zheng, "Towards Bridging the Distribution Gap: Instance to Prototype Earth Mover's Distance for Distribution Alignment," *Medical Image Analysis (MedIA)*, 82: 102607, 2022.

[15] Pengfei Zhu, Longyin Wen, Dawei Du, Xiao Bian, Heng Fan, Qinghua Hu, and Haibin Ling, "Detection and Tracking Meet Drones Challenge," *IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI)*, 44(11): 7380-7399, 2022.

[16] Ying Liu, Heng Fan, Xiaohui Yuan, and Jinhai Xiang, "GL-GAN: Adaptive Global and Local Bilevel Optimization for Generative Adversarial Network," *Pattern Recognition (PR)*, 123: 108375, 2022.

[17] Heng Fan, Hexin Bai, Liting Lin, Fan Yang, Peng Chu, Ge Deng, Sijia Yu, Harshit, Mingzhen Huang, Juehuan Liu, Yong Xu, Chunyuan Liao, Lin Yuan, and Haibin Ling, "LaSOT: A High-quality Large-scale Single Object Tracking Benchmark," *International Journal of Computer Vision (IJCV)*, 129: 439–461, 2021.

[18] Ying Liu, Heng Fan, Fuchuan Ni, and Jinhai Xiang, "ClsGAN: Selective Attribute Editing Based On Classification Adversarial Network," *Neural Networks (NN)*, 133: 220-228, 2021.

[19] Qin Zhou, Heng Fan, Hua Yang, Hang Su, Shibao Zheng, Shuang Wu, and Haibin Ling, "Robust and Efficient Graph Correspondence Transfer for Person Re-identification," *IEEE Transactions on Image Processing (T-IP)*, 30: 1623-1638, 2021.

[20] Zhigang Chang, Qin Zhou, Heng Fan, Hang Su, Hua Yang, Shibao Zheng, and Haibin Ling, "Weighted Bilinear Coding over Salient Body Parts for Person Re-identification," *Neurocomputing*, 407: 454-464, 2020.

[21] Heng Fan and Haibin Ling, "Parallel Tracking and Verifying," *IEEE Transactions on Image Processing (T-IP)*, 28(8): 4130-4144, 2019.

[22] Heng Fan, Xue Mei, Danil Prokhorov, and Haibin Ling, "Multi-level Contextual RNNs with Attention Model for Scene Labeling," *IEEE Transactions on Intelligent Transportation Systems (T-ITS)*, 19(11): 3475-3485, 2018.

[23] Heng Fan and Jinhai Xiang, "Robust Visual Tracking with Multitask Joint Dictionary Learning," *IEEE Transactions on Circuits and Systems for Video and Technology (T-CSVT)*, 27(5): 1018-1030,

2017.

Selected Conference Articles

[24] Yijun Hu*, Bing Fan*, Xin Gu, Haiqing Ren, Dongfang Liu, Heng Fan†, and Libo Zhang†, "Robust Ego-Exo Correspondence with Long-Term Memory," *Advances in Neural Information Processing Systems (NeurIPS)*, 2025. (*equal contribution; †equal advising)

[25] Liting Lin, Heng Fan, Zhipeng Zhang, Yuqing Huang, Yaowei Wang, Yong Xu, and Haibin Ling, "LoRATv2: Enabling Low-Cost Temporal Modeling in One-Stream Trackers," *Advances in Neural Information Processing Systems (NeurIPS)*, 2025.

[26] Yiyang Liu, James Chenhao Liang, Heng Fan, Wenhao Yang, Yiming Cui, Xiaotian Han, Lifu Huang, Dongfang Liu, Qifan Wang, and Cheng Han, "All You Need is One: Capsule Prompt Tuning with a Single Vector," *Advances in Neural Information Processing Systems (NeurIPS)*, 2025.

[27] Mingchen Li, Heng Fan, Song Fu, Junhua Ding, and Yunhe Feng, "DP-GTR: Differentially Private Prompt Protection via Group Text Rewriting," *Findings of the Conference on Empirical Methods in Natural Language Processing (EMNLP Findings)*, 2025.

[28] Bing Fan, Yunhe Feng, Yapeng Tian, James Chenhao Liang, Yuewei Lin, Yan Huang, and Heng Fan, "PRVQL: Progressive Knowledge-guided Refinement for Robust Egocentric Visual Query Localization," *IEEE/CVF International Conference on Computer Vision (ICCV)*, 2025.

[29] Yifan Jiao*, Yunhao Li*, Junhua Ding, Qing Yang, Song Fu, Heng Fan†, and Libo Zhang†, "GSOT3D: Towards Generic 3D Single Object Tracking in the Wild," *IEEE/CVF International Conference on Computer Vision (ICCV)*, 2025. (*equal contribution; †equal advising)

[30] Yunhao Li*, Yifan Jiao*, Dan Meng, Heng Fan†, and Libo Zhang†, "Attention to Trajectory: Trajectory-Aware Open-Vocabulary Tracking," *IEEE/CVF International Conference on Computer Vision (ICCV)*, 2025. (*equal contribution; †equal advising)

[31] Yuhao Guo, Bo Song, Heng Fan, and Erkang Cheng, "Edge-Aware Token Halting for Efficient and Accurate Medical Image Segmentation," *International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI)*, 2025.

[32] Shaohua Dong, Yunhe Feng, James Liang, Qing Yang, Yuewei Lin, and Heng Fan, "Efficient and Accurate Low-Resolution Transformer Tracking," *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, 2025.

[33] Haiqing Ren, Zhongkai Luo, Heng Fan, Xiaohui Yuan, Guanchen Wang, and Libo Zhang "G3CN: Gaussian Topology Refinement Gated Graph Convolutional Network for Skeleton-Based Action Recognition," *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, 2025.

[34] Hanzhi Zhang, Heng Fan, Kewei Sha, Yan Huang, and Yunhe Feng, "DAM: Dynamic Attention Mask for Long-Context Large Language Model Inference Acceleration," *Findings of the Annual Meeting of the Association for Computational Linguistics (ACL Findings)*, 4663-4676, 2025.

[35] Ziteng Xue, Mingzhe Guo, Heng Fan, Shihui Zhang, and Zhipeng Zhang, "CorrBEV: Multi-View 3D Object Detection by Correlation Learning with Multi-modal Prototypes," *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 27413-27423, 2025.

[36] Yunhao Li*, Xiaoqiong Liu*, Luke Liu, Heng Fan†, and Libo Zhang†, "LaMOT: Language-Guided Multi-Object Tracking," *IEEE International Conference on Robotics and Automation (ICRA)*, 6816-6822, 2025. (*equal contribution; †equal advising)

[37] Weihong Li, Xiaoqiong Liu, Heng Fan†, and Libo Zhang†, "CGTrack: Cascade Gating Network with Hierarchical Feature Aggregation for UAV Tracking," *IEEE International Conference on Robotics and Automation (ICRA)*, 6801-6808, 2025. (†equal advising)

[38] Zhipeng Zhang, Zhenyu Li, Hanshi Wang, He Yuan, Ke Wang, and Heng Fan, "The Devil is in the Quality: Exploring Informative Samples for Semi-Supervised Monocular 3D Object Detection" *IEEE International Conference on Robotics and Automation (ICRA)*, 343-350, 2025.

[39] Xin Gu, Yaojie Shen, Chenxi Luo, Tiejian Luo, Yan Huang, Yuewei Lin, Heng Fan†, and Libo

Zhang†, "Knowing Your Target : Target-Aware Transformer Makes Better Spatio-Temporal Video Grounding," *International Conference on Learning Representations (ICLR)*, 2025. (†equal advising)

[40] Liang Peng*, Junyuan Gao*, Xinran Liu*, Weihong Li*, Shaohua Dong*, Zhipeng Zhang, Heng Fan†, and Libo Zhang†, "VastTrack: Vast Category Visual Object Tracking," *Advances in Neural Information Processing Systems (NeurIPS)*, 130797–130818, 2024. (*equal contribution; †equal advising)

[41] Yunhao Li, Qin Li, Hao Wang, Xue Ma, Jiali Yao, Shaohua Dong, Heng Fan†, and Libo Zhang†, "Beyond MOT: Semantic Multi-Object Tracking," *European Conference on Computer Vision (ECCV)*, 276-293, 2024. (†equal advising)

[42] Liting Lin, Heng Fan, Zhipeng Zhang, Yaowei Wang, Yong Xu, and Haibin Ling, "Tracking Meets LoRA: Faster Training, Larger Model, Stronger Performance," *European Conference on Computer Vision (ECCV)*, 300-318, 2024.

[43] Shaohua Dong, Yunhe Feng, Qing Yang, Yan Huang, Dongfang Liu, and Heng Fan, "Efficient Multimodal Semantic Segmentation via Dual-Prompt Learning," *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, 14196-14203, 2024.

[44] Deyuan Qu, Qi Chen, Tianyu Bai, Andy Qin, Hongsheng Lu, Heng Fan, Song Fu, and Qing Yang, "SiCP: Simultaneous Individual and Cooperative Perception for 3D Object Detection in Connected and Automated Vehicles," *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, 8905-8912, 2024.

[45] Xin Gu*, Heng Fan*, Yan Huang, Tiejian Luo, and Libo Zhang, "Context-Guided Spatio-Temporal Video Grounding," *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 18330-18339, 2024. (*equal contribution)

[46] Yawen Lu, Dongfang Liu, Qifan Wang, Cheng Han, Yiming Cui, Zhiwen Cao, Xueling Zhang, Yingjie Victor Chen, and Heng Fan, "ProMotion: Prototypes As Motion Learners," *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 28109-28119, 2024.

[47] Jinzhi Zheng, Heng Fan, and Libo Zhang, "Kernel Adaptive Convolution for Scene Text Detection via Distance Map Prediction," *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR)*, 5957-5966, 2024.

[48] Hao Wang*, Yongsheng Yu*, Tiejian Luo, Heng Fan, and Libo Zhang, "MaGIC: Multi-modality Guided Image Completion," *International Conference on Learning Representations (ICLR)*, 2024. (*equal contribution)

[49] Yunhe Feng, Zexuan Meng, Colton Clemmer, Heng Fan, and Yan Huang, "A Multi-granularity Decade-Long Geo-Tagged Twitter Dataset for Spatial Computing," *ACM International Conference on Advances in Geographic Information Systems (SIGSPATIAL)*, 1-4, 2023.

[50] Wenzhang Zhou*, Heng Fan*, Tiejian Luo, and Libo Zhang, "Unsupervised Domain Adaptive Detection with Network Stability Analysis," *IEEE/CVF International Conference on Computer Vision (ICCV)*, 6986-6995, 2023. (*equal contribution)

[51] Xinran Liu*, Xiaoqiong Liu*, Ziruo Yi*, Xin Zhou*, Thanh Le, Libo Zhang, Yan Huang, Qing Yang, and Heng Fan, "PlanarTrack: A Large-scale Challenging Benchmark for Planar Object Tracking," *IEEE/CVF International Conference on Computer Vision (ICCV)*, 20449-20458, 2023. (*equal contribution)

[52] Bohai Gu, Heng Fan, and Libo Zhang, "Two Birds, One Stone: A Unified Framework for Joint Learning of Image and Video Style Transfers," *IEEE/CVF International Conference on Computer Vision (ICCV)*, 23545-23554, 2023.

[53] Yaojie Shen*, Xin Gu*, Kai Xu, Heng Fan, Longyin Wen, and Libo Zhang, "Accurate and Fast Compressed Video Captioning," *IEEE/CVF International Conference on Computer Vision (ICCV)*, 15558-15567, 2023. (*equal contribution)

[54] Liting Lin*, Heng Fan*, Zhipeng Zhang, Yong Xu, and Haibin Ling, "SwinTrack: A Simple and Strong Baseline for Transformer Tracking," *Advances in Neural Information Processing Systems (NeurIPS)*, 16743-16754, 2022. (*equal contribution)

[55] Mingzhe Guo*, Zhipeng Zhang*, Heng Fan, and Liping Jing, "Divert More Attention to Vision-Language Tracking," *Advances in Neural Information Processing Systems (NeurIPS)*, 4446-4460, 2022. (*equal contribution)

[56] Yongsheng Yu, Libo Zhang, Heng Fan, and Tiejian Luo, "High-Fidelity Image Inpainting with GAN Inversion," *European Conference on Computer Vision (ECCV)*, 242-258, 2022.

[57] Mingzhe Guo, Zhipeng Zhang, Heng Fan, Liping Jing, Yilin Lyu, Bing Li, and Weiming Hu, "Learning Target-aware Representation for Visual Tracking via Informative Interactions," *International Joint Conference on Artificial Intelligence (IJCAI)*, 927-934, 2022.

[58] Heng Fan, Halady Akhilesha Miththanthaya, Harshit, Siranjiv Ramana Rajan, Xiaoqiong Liu, Zhilin Zou, Yuewei Lin, and Haibin Ling, "Transparent Object Tracking Benchmark," *IEEE/CVF International Conference on Computer Vision (ICCV)*, 10734-10743, 2021.

[59] Heng Fan and Haibin Ling, "CRACT: Cascaded Regression-Align-Classification for Robust Visual Tracking," *IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS)*, 7013-7020, 2021.

[60] Heng Fan, Fan Yang, Peng Chu, Yuewei Lin, Lin Yuan, and Haibin Ling, "TracKlinic: Diagnosis of Challenge Factors in Visual Tracking," *IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)*, 970-979, 2021.

[61] Heng Fan and Haibin Ling, "MART: Motion-Aware Recurrent Neural Network for Robust Visual Tracking," *IEEE/CVF Winter Conference on Applications of Computer Vision (WACV)*, 566-575, 2021.

[62] Fan Yang, Heng Fan, Peng Chu, Erik Blasch, and Haibin Ling, "Clustered Object Detection in Aerial Images," *IEEE/CVF International Conference on Computer Vision (ICCV)*, 8311-8320, 2019.

[63] Heng Fan and Haibin Ling, "Siamese Cascaded Region Proposal Networks for Real-Time Visual Tracking," *IEEE/CVF International Conference on Computer Vision and Pattern Recognition (CVPR)*, 7952-7961, 2019.

[64] Heng Fan, Liting Lin, Fan Yang, Peng Chu, Ge Deng, Sijia Yu, Hexin Bai, Yong Xu, Chunyuan Liao, and Haibin Ling, "LaSOT: A High-quality Benchmark for Large-scale Single Object Tracking," *IEEE/CVF International Conference on Computer Vision and Pattern Recognition (CVPR)*, 5374-5383, 2019.

[65] Heng Fan, Peng Chu, Longin Jan Latecki, and Haibin Ling, "Scene Parsing via Dense Recurrent Neural Networks with Attentional Selection," *IEEE Winter Conference on Applications of Computer Vision (WACV)*, 1816-1825, 2019.

[66] Peng Chu, Heng Fan, Chiu C. Tan, and Haibin Ling, "Online Multi-Object Tracking with Instance-Aware Tracker and Dynamic Model Refreshment," *IEEE Winter Conference on Applications of Computer Vision (WACV)*, 161-170, 2019.

[67] Qin Zhou, Heng Fan, Shibao Zheng, Hang Su, Xinzhe Li, Shuang Wu, and Haibin Ling, "Graph correspondence transfer for person re-identification," *AAAI Conference on Artificial Intelligence (AAAI)*, 7599-7606, 2018.

[68] Heng Fan and Haibin Ling, "Parallel Tracking and Verifying: A Framework for Real-Time and High Accuracy Visual Tracking," *IEEE International Conference on Computer Vision (ICCV)*, 5486-5494, 2017.

[69] Heng Fan and Haibin Ling, "SANet: Structure-Aware Network for Visual Tracking," *IEEE International Conference on Computer Vision and Pattern Recognition (CVPR) Workshops*, 42-49, 2017.

[70] Heng Fan and Jinhai Xiang, "Robust Visual Tracking via Local-Global Correlation Filter," *AAAI Conference on Artificial Intelligence (AAAI)*, 4025-4031, 2017.

[71] Heng Fan, Xue Mei, Danil Prokhorov, and Haibin Ling, "Cross Datasets Vegetation Detection with Spatial Prior and Local Context," *IEEE Intelligent Vehicles Symposium (IV)*, 735-740, 2016.

Teaching

- CSCE 2110, *Foundations of Data Structures*, University of North Texas, Department of Computer Science and Engineering, Fall 2025.
- CSCE 6280, *Advanced Topics in Artificial Intelligence*, University of North Texas, Department of Computer Science and Engineering, Fall 2023, Fall 2024.
- CSCE 5218/4930, *Deep Learning*, University of North Texas, Department of Computer Science and Engineering, Spring 2022, Spring 2023, Spring 2024, Spring 2025.
- CSCE 3110, *Data Structures and Algorithms*, University of North Texas, Department of Computer Science and Engineering, Fall 2021, Fall 2022.

Advising

Doctoral Student Supervision

- Bing Fan
- Shaohua Dong
- Xiaoqiong Liu (female)

Master Student Supervision

- Naga Prudhvi Mareedu
- Cuicui Zhang (female), 2025
- Andres Escamilla Varela, 2024
- Jashia Mitayeegiri (female), 2024
- Pranay Rishith Bondugula, 2023
- Thanh Le, 2023

Undergraduate Student Supervision

- Subin Ghimire, 2025
- Hasini Kanuru (female), 2025
- Syed Abdullah Imam, 2024
- Joshua Yao, 2024
- Ny Dang (University of Houston, female), 2024

High School Student Supervision

- Michelle Li (female), Texas Academy of Mathematics and Science (TAMS), 2025
- Jonas Li, Texas Academy of Mathematics and Science (TAMS), 2025
- Arpit Khavate, Lebanon Trail High School, 2024
- Luke Liu, Centennial High School, 2024
- Saikiran Motati, Texas Academy of Mathematics and Science (TAMS), 2023
- Helen Li (female), Texas Academy of Mathematics and Science (TAMS), 2022

PhD Committee Member

- Lyuzhou Ye
- Dawei Gao
- Donger Chen
- Yen Pham

- Wang Feng
- Hanzhi Zhang
- Sharma Himanshu
- Syed Ali
- Minghao Li
- Dominic Carrillo
- Saba Yousefian Jazi
- Riyad Bin Rafiq
- Ziruo Yi
- Himanshu Sharma
- Md Marufi Rahman
- Sourabh Yadav, defended 2025
- Musharraf Alruwaill, defended 2025
- Tianyu Bai, defended 2025
- Zhaochen Gu, defended 2024
- Peixia Li (University of Sydney), defended 2023
- Ahmad Alkhodair, defended 2023
- Amar Man Maharjan, defended 2022

MS Committee Member

- Rafid Ishrak Jahan, defended, 2024
- William Locke, defended 2023

University Services

- Faculty Search Committee, 2025-2026
  Department of Computer Science and Engineering, University of North Texas
- Faculty Search Committee, 2023-2024
  Department of Computer Science and Engineering, University of North Texas
- Graduate Committee, 2021-2023
  Department of Computer Science and Engineering, University of North Texas

Professional Activities

Editorial Services

- Associate Editor, Pattern Recognition (**PR**), 2025-now

Grant Proposal Review or Panel

- National Science Foundation (NSF), 2025

Senior Conference Committee

- Area Chair, IEEE International Conference on Computer Vision (**ICCV**), 2025
- Area Chair, Advances in Neural Information Processing Systems (**NeurIPS**), 2025
- Area Chair, British Machine Vision Conference (**BMVC**), 2025
- Area Chair, IEEE Winter Conference on Applications of Computer Vision (**WACV**), 2022-2026
- Area Chair, IEEE International Conference on Multimedia & Expo (**ICME**), 2025

- Co-organizer, New Trends in AI-Generated Media and Security, in **AVSS**, 2024
- Co-organizer, Computer Vision for UAVs Workshop and Challenge, in **ECCV**, 2020

Conference Program Committee/Reviewers

- Advances in Neural Information Processing Systems (**NeurIPS**, DB Track), 2021
- IEEE Winter Conference on Applications of Computer Vision (**WACV**), 2021, 2022
- IEEE/RSJ International Conference on Intelligent Robots and Systems (**IROS**), 2024-2025
- IEEE International Conference on Robotics and Automation (**ICRA**), 2025
- European Conference on Computer Vision (**ECCV**), 2020, 2022, 2024
- AAAI Conference on Artificial Intelligence (**AAAI**), 2020-2022
- IEEE International Conference on Computer Vision (**ICCV**), 2019, 2023
- IEEE Conference on Computer Vision and Pattern Recognition (**CVPR**), 2019-2026

Journal Reviewers

- IEEE Transactions on Pattern Analysis and Machine Intelligence (**T-PAMI**)
- IEEE Transactions on Circuits and Systems for Video Technology (**T-CSVT**)
- Journal of Visual Communication and Image Representation (**JVCIR**)
- IEEE Transactions on Intelligent Transportation Systems (**T-ITS**)
- ACM Transactions on Spatial Algorithms and Systems (**T-SAS**)
- International Journal of Computer Vision (**IJCV**)
- IEEE Transactions on Image Processing (**T-IP**)
- IEEE Transactions on Multimedia (**T-MM**)
- Robotics and Autonomous Systems (**RAS**)
- IEEE Signal Processing Letters (**SPL**)
- ACM Computing Surveys (**CUSR**)
- The Visual Computer (**TVC**)
- Knowledge-Based Systems
- Pattern Recognition (**PR**)
- Signal Processing
- Neurocomputing

References

Available upon request.