

# Zhengyuan Yang

Principal Researcher, Microsoft, Redmond, WA

☎ (585) 435-3638 | ✉ zhengyuan.yang13@gmail.com | 🌐 zhengyuan.info | 🎓 Scholar

## Research Summary

My research interests involve developing scalable multimodal understanding and generation models.

## Education

### University of Rochester

*Rochester, New York*

PH.D. IN COMPUTER SCIENCE    ADVISOR: PROF. JIEBO LUO

2016 - 2021

- Thesis: Visual Grounding: Building Cross-Modal Visual-Text Alignment (**ACM SIGMM Outstanding Ph.D. Thesis**)

### University of Science and Technology of China

*Hefei, China*

B.E. IN ELECTRONIC ENGINEERING AND INFORMATION SCIENCE

2012 - 2016

## Experience

### Microsoft

*Redmond, WA*

PRINCIPAL RESEARCHER

June 2021 - Current

- Research on scalable multimodal understanding and generation.

### Microsoft

*Bellevue, WA*

RESEARCH INTERN    SUPERVISOR: DR. YIJUAN LU, DR. JIANFENG WANG, DR. XI YIN

May 2020 to Aug 2020

### Tencent AI Lab at Bellevue

*Bellevue, WA*

RESEARCH INTERN    SUPERVISOR: DR. BOQING GONG, DR. LIWEI WANG

Jan 2019 to Apr 2019

### SnapChat Research

*Venice, CA*

RESEARCH INTERN    SUPERVISOR: DR. YUNCHENG LI, DR. LINJIE YANG, DR. NING ZHANG

May 2018 to Aug 2018

## Selected Publications

### NAACL 2025

Chenglei Si, Yanzhe Zhang, Ryan Li, **Zhengyuan Yang**, Ruibo Liu, Diyi Yang, "Design2Code: Benchmarking Multimodal Code Generation for Automated Front-End Engineering," The Nations of the Americas Chapter of the Association for Computational Linguistics (NAACL), Albuquerque, New Mexico, April 2025.

### ICLR 2025a

Yining Hong, Beide Liu, Maxine Wu, Yuanhao Zhai, Kai-Wei Chang, Linjie Li, Kevin Lin, Chung-Ching Lin, Jianfeng Wang, **Zhengyuan Yang**<sup>\*</sup>, Yingnian Wu<sup>\*</sup>, Lijuan Wang<sup>\*</sup>, "SlowFast-VGen: Slow-Fast Learning for Action-Driven Long Video Generation," The Thirteenth International Conference on Learning Representations (ICLR), Singapore, April 2025. **Spotlight presentation.**

### ICLR 2025b

Zichen Miao, **Zhengyuan Yang**, Kevin Lin, Ze Wang, Zicheng Liu, Lijuan Wang, Qiang Qiu, "Tuning Timestep-Distilled Diffusion Model Using Pairwise Sample Optimization," The Thirteenth International Conference on Learning Representations (ICLR), Singapore, April 2025.

### ICLR 2025c

Yuyang Zhao, Chung-Ching Lin, Kevin Lin, Zhiwen Yan, Linjie Li, **Zhengyuan Yang**, Jianfeng Wang, Gim Hee Lee, Lijuan Wang, "GenXD: Generating Any 3D and 4D Scenes," The Thirteenth International Conference on Learning Representations (ICLR), Singapore, April 2025.

### ICLR 2025d

Xuehai He, Weixi Feng, Kaizhi Zheng, Yujie Lu, Wanrong Zhu, Jiachen Li, Yue Fan, Jianfeng Wang, Linjie Li, **Zhengyuan Yang**, Kevin Lin, William Yang Wang, Lijuan Wang, Xin Eric Wang, **Zhengyuan Yang**, Jianfeng Wang, Gim Hee Lee, Lijuan Wang, "MMWorld: Towards Multi-discipline Multi-faceted World Model Evaluation in Videos," The Thirteenth International Conference on Learning Representations (ICLR), Singapore, April 2025.

### ICLR 2025e

Kaizhi Zheng, Xiaotong Chen, Xuehai He, Jing Gu, Linjie Li, **Zhengyuan Yang**, Kevin Lin, Jianfeng Wang, Lijuan Wang, Xin Eric Wang, "EditRoom: LLM-parameterized Graph Diffusion for Composable 3D Room Layout Editing," The Thirteenth International Conference on Learning Representations (ICLR), Singapore, April 2025.

<b>NeurIPS 2024a</b>	Yuanhao Zhai, Kevin Lin, <b>Zhengyuan Yang</b> , Linjie Li, Jianfeng Wang, Chung-Ching Lin, David Doermann, Junsong Yuan, Lijuan Wang, "Motion Consistency Model: Accelerating Video Diffusion with Disentangled Motion-Appearance Distillation," The 38th Conference on Neural Information Processing Systems (NeurIPS), Vancouver, BC, December 2024.
<b>NeurIPS 2024b</b>	Xueyan Zou, Linjie Li, Jianfeng Wang, Jianwei Yang, Mingyu Ding, Junyi Wei, <b>Zhengyuan Yang</b> , Feng Li, Hao Zhang, Shilong Liu, Arul Aravinthan, Yong Jae Lee, Lijuan Wang, "Interfacing Foundation Models' Embeddings," The 38th Conference on Neural Information Processing Systems (NeurIPS), Vancouver, BC, December 2024.
<b>NeurIPS 2024c</b>	Kevin Qinghong Lin, Linjie Li, Difei Gao, Qinchen WU, Mingyi Yan, <b>Zhengyuan Yang</b> , Lijuan Wang, Mike Zheng Shou, "VideoGUI: A Benchmark for GUI Automation from Instructional Videos," The 38th Conference on Neural Information Processing Systems Datasets and Benchmarks (NeurIPS), Vancouver, BC, December 2024. <b>Spotlight presentation.</b>
<b>COLM 2024</b>	An Yan, <b>Zhengyuan Yang</b> , Junda Wu, Wanrong Zhu, Jianwei Yang, Linjie Li, Kevin Lin, Jianfeng Wang, Julian McAuley, Jianfeng Gao, Lijuan Wang, "List Items One by One: A New Data Source and Learning Paradigm for Multimodal LLMs," The 1st Conference on Language Modeling (COLM), Philadelphia, PA, October 2024.
<b>ACMMM 2024</b>	Jie An, <b>Zhengyuan Yang</b> , Linjie Li, Jianfeng Wang, Kevin Lin, Zicheng Liu, Lijuan Wang, Jiebo Luo, "Openleaf: Open-domain interleaved image-text generation and evaluation," ACM Multimedia Conference (MM), Brave New Ideas track, Melbourne, Australia, October 2024. <b>Oral presentation.</b>
<b>ECCV 2024a</b>	<b>Zhengyuan Yang</b> , Jianfeng Wang, Linjie Li, Kevin Lin, Chung-Ching Lin, Zicheng Liu, Lijuan Wang, "Idea2Img: Iterative Self-Refinement with GPT-4V(ision) for Automatic Image Design and Generation," The 18th European Conference on Computer Vision (ECCV), Milano, Italy, Sept 2024.
<b>ECCV 2024b</b>	Jialian Wu, Jianfeng Wang, <b>Zhengyuan Yang</b> , Zhe Gan, Zicheng Liu, Junsong Yuan, Lijuan Wang, "GRiT: A Generative Region-to-text Transformer for Object Understanding," The 18th European Conference on Computer Vision (ECCV), Milano, Italy, Sept 2024.
<b>ECCV 2024c</b>	Yuanhao Zhai, Kevin Lin, Linjie Li, Chung-Ching Lin, Jianfeng Wang, <b>Zhengyuan Yang</b> , David Doermann, Junsong Yuan, Zicheng Liu, Lijuan Wang, "IDOL: Unified Dual-Modal Latent Diffusion for Human-Centric Joint Video-Depth Generation," The 18th European Conference on Computer Vision (ECCV), Milano, Italy, Sept 2024.
<b>ICML 2024a</b>	Weihaoyu*, <b>Zhengyuan Yang</b> *, Linjie Li, Jianfeng Wang, Kevin Lin, Zicheng Liu, Xinchao Wang, Lijuan Wang, "MM-Vet: Evaluating Large Multimodal Models for Integrated Capabilities," The Forty-first International Conference on Machine Learning (ICML), Vienna, Austria, July 2024.
<b>ICML 2024b</b>	Zecheng Tang, Chenfei Wu, Zekai Zhang, Mingheng Ni, Shengming Yin, Yu Liu, <b>Zhengyuan Yang</b> , Lijuan Wang, Zicheng Liu, Juntao Li, Nan Duan, "StrokeNUWA: Tokenizing Strokes for Vector Graphic Synthesis," The Forty-first International Conference on Machine Learning (ICML), Vienna, Austria, July 2024.
<b>IJCAI 2024</b>	Jie An, <b>Zhengyuan Yang</b> , Jianfeng Wang, Linjie Li, Zicheng Liu, Lijuan Wang, Jiebo Luo, "Bring Metric Functions into Diffusion Models," The 32nd International Joint Conference on Artificial Intelligence (IJCAI), Jeju, August 2024.
<b>CVPR 2024a</b>	Chaoyi Zhang, Kevin Lin, <b>Zhengyuan Yang</b> , Jianfeng Wang, Linjie Li, Chung-Ching Lin, Zicheng Liu, Lijuan Wang, "MM-Narrator: Narrating Long-form Videos with Multimodal In-Context Learning," IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Seattle, WA, June 2024. <b>Highlight presentation.</b>
<b>CVPR 2024b</b>	Tan Wang, Linjie Li, Kevin Lin, Yuanhao Zhai, Chung-Ching Lin, <b>Zhengyuan Yang</b> , Hanwang Zhang, Zicheng Liu, Lijuan Wang, "DisCo: Disentangled Control for Realistic Human Dance Generation," IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Seattle, WA, June 2024.
<b>CVPR 2024c</b>	Zichen Miao, Jiang Wang, Ze Wang, <b>Zhengyuan Yang</b> , Lijuan Wang, Qiang Qiu, Zicheng Liu, "Training Diffusion Models Towards Diverse Image Generation with Reinforcement Learning," IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Seattle, WA, June 2024.
<b>CVPR 2024d</b>	Jielin Qiu, Jiacheng Zhu, William Han, Aditesh Kumar, Karthik Mittal, Claire Jin, <b>Zhengyuan Yang</b> , Linjie Li, Jianfeng Wang, Ding Zhao, Bo Li, Lijuan Wang, "MMSum: A Dataset for Multimodal Summarization and Thumbnail Generation of Videos," IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Seattle, WA, June 2024. <b>Highlight presentation.</b>

<b>Book 2023</b>	Chunyu Li*, Zhe Gan*, <b>Zhengyuan Yang*</b> , Jianwei Yang*, Linjie Li*, Lijuan Wang, Jianfeng Gao, "Multimodal Foundation Models: From Specialists to General-Purpose Assistants," Foundations and Trends in Computer Graphics and Vision, 2023.
<b>Arxiv 2023a</b>	<b>Zhengyuan Yang*</b> , Linjie Li*, Kevin Lin*, Jianfeng Wang*, Chung-Ching Lin*, Zicheng Liu, Lijuan Wang*, "The Dawn of LMMs: Preliminary Explorations with GPT-4V(ision)." ( <b>Exploratory work cataloguing use of GPT-4V</b> ).
<b>Arxiv 2023b</b>	<b>Zhengyuan Yang</b> , Linjie Li, Jianfeng Wang, Kevin Lin, Ehsan Azarnasab, Faisal Ahmed, Zicheng Liu, Ce Liu, Michael Zeng, Lijuan Wang, "MM-REACT: Prompting ChatGPT for Multimodal Reasoning and Action."
<b>ICCV 2023a</b>	Yushi Hu, Hang Hua, <b>Zhengyuan Yang</b> , Weijia Shi, Noah A. Smith, Jiebo Luo, "PromptCap: Prompt-Guided Task-Aware Image Captioning," IEEE International Conference on Computer Vision (ICCV), Paris, France, October 2023.
<b>ICCV 2023b</b>	Tan Wang, Kevin Lin, Linjie Li, Chung-Ching Lin, <b>Zhengyuan Yang</b> , Hanwang Zhang, Zicheng Liu, Lijuan Wang, "Equivariant Similarity for Vision-Language Foundation Models," IEEE International Conference on Computer Vision (ICCV), Paris, France, October 2023. <b>Oral presentation</b> .
<b>ACL 2023</b>	Shengming Yin, Chenfei Wu, Huan Yang, Jianfeng Wang, Xiaodong Wang, Minheng Ni, <b>Zhengyuan Yang</b> , Linjie Li, Shuguang Liu, Fan Yang, Jianlong Fu, Gong Ming, Lijuan Wang, Zicheng Liu, Houqiang Li, Nan Duan, "NUWA-XL: Diffusion over Diffusion for eXtremely Long Video Generation." Annual Meeting of the Association for Computational Linguistics (ACL), Toronto, Canada, July 2023. <b>Oral presentation</b> .
<b>IJCAI 2023</b>	Xiaodong Wang, Chenfei Wu, Shengming Yin, Minheng Ni, Jianfeng Wang, Linjie Li, <b>Zhengyuan Yang</b> , Fan Yang, Lijuan Wang, Zicheng Liu, Yuejian Fang, Nan Duan, "Learning 3D Photography Videos via Self-supervised Diffusion on Single Images." The 32nd International Joint Conference on Artificial Intelligence (IJCAI), Macao, August 2023.
<b>CVPR 2023</b>	<b>Zhengyuan Yang</b> , Jianfeng Wang, Zhe Gan, Linjie Li, Kevin Lin, Chenfei Wu, Nan Duan, Zicheng Liu, Ce Liu, Michael Zeng, Lijuan Wang, "ReCo: Region-Controlled Text-to-Image Generation," IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Vancouver, BC, June 2023.
<b>ICLR 2023</b>	Chenglei Si, Zhe Gan, <b>Zhengyuan Yang</b> , Shuohang Wang, Jianfeng Wang, Jordan Boyd-Graber, Lijuan Wang, "Prompting GPT-3 To Be Reliable," The Eleventh International Conference on Learning Representations (ICLR), Kigali, Rwanda, May 2023.
<b>ECCV 2022</b>	<b>Zhengyuan Yang</b> , Zhe Gan, Jianfeng Wang, Xiaowei Hu, Faisal Ahmed, Zicheng Liu, Yumao Lu, Lijuan Wang, "UniTAB: Unifying Text and Box Outputs for Grounded Vision-Language Modeling," European Conference on Computer Vision (ECCV), Tel Aviv, Israel, October 2022. <b>Oral presentation (2.7%)</b> .
<b>TPAMI 2023</b>	Jiajun Deng, <b>Zhengyuan Yang</b> , Daqing Liu, Tianlang Chen, Wengang Zhou, Yanyong Zhang, Houqiang Li, Wanli Ouyang, "TransVG++: End-to-End Visual Grounding with Language Conditioned Vision Transformer," IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2023.
<b>TMLR 2022</b>	Jianfeng Wang, <b>Zhengyuan Yang</b> , Xiaowei Hu, Linjie Li, Kevin Lin, Zhe Gan, Zicheng Liu, Ce Liu, Lijuan Wang, "GIT: A Generative Image-to-text Transformer for Vision and Language," Transactions on Machine Learning Research (TMLR), 2022.
<b>CVPR 2022</b>	Xiaowei Hu, Zhe Gan, Jianfeng Wang, <b>Zhengyuan Yang</b> , Zicheng Liu, Yumao Lu and Lijuan Wang, "Scaling Up Vision-Language Pre-training for Image Captioning," IEEE Conference on Computer Vision and Pattern Recognition (CVPR), New Orleans, June 2022.
<b>Arxiv 2021</b>	Jianfeng Wang, Xiaowei Hu, Zhe Gan, <b>Zhengyuan Yang</b> , Xiyang Dai, Zicheng Liu, Yumao Lu and Lijuan Wang, "UFO: A UniFied TransFormer for Vision-Language Representation Learning."
<b>AAAI 2022</b>	<b>Zhengyuan Yang</b> , Zhe Gan, Jianfeng Wang, Xiaowei Hu, Yumao Lu, Zicheng Liu, Lijuan Wang, "An Empirical Study of GPT-3 for Few-Shot Knowledge-Based VQA," The 36th AAAI Conference on Artificial Intelligence (AAAI), Vancouver, BC, February 2022. <b>Oral presentation (4.2%)</b> .
<b>ICPR 2022</b>	<b>Zhengyuan Yang</b> , Jingen Liu, Jing Huang, Xiaodong He, Tao Mei, Chenliang Xu, Jiebo Luo, "Cross-modal Contrastive Distillation for Instructional Activity Anticipation," International Conference on Pattern Recognition (ICPR), Montreal, Quebec, Canada, August 2022.
<b>ICCV 2021a</b>	<b>Zhengyuan Yang</b> , Songyang Zhang, Liwei Wang, Jiebo Luo, "SAT: 2D Semantics Assisted Training for 3D Visual Grounding," IEEE International Conference on Computer Vision (ICCV), Online, 2021. <b>Oral presentation (3.4%)</b> .

<b>ICCV 2021b</b>	Jiajun Deng, <b>Zhengyuan Yang</b> , Tianlang Chen, Wengang Zhou, Houqiang Li, "TransVG: End-to-End Visual Grounding with Transformers," IEEE International Conference on Computer Vision (ICCV), Online, 2021.
<b>CVPR 2021a</b>	<b>Zhengyuan Yang</b> , Yijuan Lu, Jianfeng Wang, Xi Yin, Dinei Florencio, Lijuan Wang, Cha Zhang, Lei Zhang, Jiebo Luo, "TAP: Text-Aware Pre-training for Text-VQA and Text-Caption," IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Online, June 2021. <b>Oral presentation (4.0%).</b>
<b>CVPR 2021b</b>	Liwei Wang, Jing Huang, Yin Li, Kun Xu, <b>Zhengyuan Yang</b> , Dong Yu, "Improving Weakly Supervised Visual Grounding by Contrastive Knowledge Distillation," IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Online, June 2021.
<b>ECCV 2020</b>	<b>Zhengyuan Yang</b> , Tianlang Chen, Liwei Wang, Jiebo Luo, "Improving One-stage Visual Grounding by Recursive Sub-query Construction," European Conference on Computer Vision (ECCV), Online, August 2020.
<b>ACL 2020</b>	Yongjing Yin, Fandong Meng, Jinsong Su, Chulun Zhou, <b>Zhengyuan Yang</b> , Jie Zhou, Jiebo Luo, "A Novel Graph-based Multi-modal Fusion Encoder for Neural Machine Translation," Annual Meeting of the Association for Computational Linguistics (ACL), Online, July 2020.
<b>T-CSVT 2020</b>	<b>Zhengyuan Yang</b> , Tushar Kumar, Tianlang Chen, Jingsong Su, Jiebo Luo, "Grounding-Tracking-Integration," IEEE Transactions on Circuits and Systems for Video Technology (T-CSVT).
<b>ACMMM 2020</b>	Huan Lin, Fandong Meng, Jinsong Su, Yongjing Yin, <b>Zhengyuan Yang</b> , Yubin Ge, Jie Zhou, Jiebo Luo, "Dynamic Context-guided Capsule Network for Multimodal Machine Translation," ACM Multimedia Conference, Seattle, WA, October 2020
<b>ICCV 2019</b>	<b>Zhengyuan Yang</b> , Boqing Gong, Liwei Wang, Wenbing Huang, Dong Yu, Jiebo Luo, "A Fast and Accurate One-Stage Approach to Visual Grounding," IEEE International Conference on Computer Vision (ICCV), Seoul, South Korea, 2019. <b>Oral presentation (4.3%).</b>
<b>ICPR 2020a</b>	<b>Zhengyuan Yang</b> , Yuncheng Li, Linjie Yang, Ning Zhang, Jiebo Luo, "Weakly Supervised Body Part Parsing with Pose based Part Priors," International Conference on Pattern Recognition (ICPR), Millan, Italy, January, 2020.
<b>ICPR 2020b</b>	<b>Zhengyuan Yang</b> , Amanda Kay, Yuncheng Li, Wendi Cross, Jiebo Luo, "Pose-based Body Language Recognition for Emotion and Psychiatric Symptom Interpretation," International Conference on Pattern Recognition (ICPR), Millan, Italy, January, 2020.
<b>CVPR 2019</b>	Mengshi Qi, Weijian Li, <b>Zhengyuan Yang</b> , Yunhong Wang, Jiebo Luo, "Attentive Relational Networks for Mapping Images to Scene Graphs," IEEE Conference on Computer Vision and Pattern Recognition (CVPR), Long Beach, USA, 2019.
<b>ICME 2019</b>	<b>Zhengyuan Yang</b> , Yixuan Zhang, Jiebo Luo, "Human-Centered Emotion Recognition in Animated GIFs with Facial Landmarks," IEEE International Conference on Multimedia and Expo (ICME), Shanghai, China, 2019.
<b>T-CSVT 2018</b>	<b>Zhengyuan Yang</b> , Yuncheng Li, Jianchao Yang, Jiebo Luo, "Action Recognition with Spatio-Temporal Visual Attention on Skeleton Image Sequences," IEEE Transactions on Circuits and Systems for Video Technology (T-CSVT).
<b>ICPR 2018a</b>	<b>Zhengyuan Yang</b> , Yixuan Zhang, Jerry Yu, Junjie Cai, Jiebo Luo, "End-to-end Multi-Modal Multi-Task Vehicle Control for Self-Driving Cars with Visual Perceptions," International Conference on Pattern Recognition (ICPR), Beijing, China, 2018. <b>Best Industry Related Paper Award (BIRPA) (1/1258).</b>
<b>ICPR 2018b</b>	<b>Zhengyuan Yang</b> , Yuncheng Li, Jianchao Yang, Jiebo Luo, "Action Recognition with Visual Attention on Skeleton Images," International Conference on Pattern Recognition (ICPR), Beijing, China, 2018.

## Talks and Teaching Experience

### Invited Talk – Multimodal Agents

Niagara Falls, Canada

- ICME 2024 Workshop on Visual-Language Alignment in Text-Guided Multi-Modal Generation

2024

### Tutorial Talk – Recent Advances in Image Generative Foundation Models

Seattle, WA

- CVPR 2024 Tutorial on Recent Advances in Vision Foundation Models

2024

### Invited Talk – Multimodal Agents: from Text to Multimodal Reasoning and Action

Hong Kong, China

- CUHK Multi-Modal Symposium

2024

### **Tutorial Talk – Alignments in Text-to-Image Generation**

*Vancouver, BC*

- CVPR 2023 Tutorial on Recent Advances in Vision Foundation Models

2023

### **Invited Talk – Towards Cross-Modal Visual-Text Understanding and Generation**

*Tokyo, Japan*

- ACM MM Asia 2022 Workshop on Multimedia Understanding with Pre-trained Models

2022

### **Tutorial Talk – Unified Image-Text Modeling**

*New Orleans, LA*

- CVPR 2022 Tutorial on Recent Advances in Vision-and-Language Pre-training

2022

### **Invited Talk – SAT: 2D Semantics Assisted Training for 3D Visual Grounding**

*Online*

- CVPR Workshop 2021 on Language for 3D Scenes

2021

### **Guest Lecture – Vision-and-language**

*Rochester, NY*

- CS440 Data Mining, University of Rochester

2021

### **Guest Lecture – CNN and Feature Visualization**

*Rochester, NY*

- CS440 Data Mining, University of Rochester

2020

### **Teaching Assistant – CS446 Machine Learning**

*Rochester, NY*

- Dept. of Computer Science, University of Rochester

2018

### **Teaching Assistant – CS172 Data Structures and Algorithms**

*Rochester, NY*

- Dept. of Computer Science, University of Rochester

2017

### **Teaching Assistant – CS242 Intro to Artificial Intelligence**

*Rochester, NY*

- Dept. of Computer Science, University of Rochester

2017

## **Selected Awards**

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ACM SIGMM Award for Outstanding Ph.D. Thesis

2022

ECCV 2022 Outstanding Reviewer

2022

Winner of CVPR 2021 TextCaps Challenge

2021

Winner of CVPR 2021 ReferIt3D Challenge

2021

CVPR 2021 Outstanding Reviewer

2021

Twitch Research Fellowship

2020

Best Industry Related Paper Award (BIRPA) in ICPR 2018, (1/1258)

2018

## **Services**

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**Exhibits and Demos Chair:** IEEE International Conference on Multimedia and Expo (ICME)

2024

**Area Chair:** EMNLP, ACMMM, NAACL

2024

**Senior Program Committee:** AAAI Conference on Artificial Intelligence (AAAI)

2023-2025

**Associate Editor:** IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)

2022-2024

**Guest Editor:** IEEE TMM SI on “Large Multimodal Models for Dynamic Visual Scene Understanding”

2024

IEEE TCSVT SI on “AI-Generated Content for Multimedia”

2023

**Conference Reviewer:** CVPR, ICCV, ECCV, NeurIPS, ICLR, ICML, ACL, EMNLP, ACMMM, AAAI, ACCV, WACV, ICME, ICIP.

**Journal Reviewer:** TPAMI, IJCV, TIP, TMM, TCybernetics, TCSVT, Pattern Recognition, Neurocomputing, TBioCAS, Access.

## **Selected Patents**

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“Weakly supervised semantic parsing”, *US Patent Number: 11,182,603* (Granted, 11/2021).