Zhun Zhong

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Email: zhunzhong007@gmail.com
Homepage: `http://zhunzhong.site`
Google Scholar Citation: **10,000+**

Education

Xiamen University, China *September 2015 - December 2019*
PhD in Engineering, Computer Science
Advisor: Prof. Shaozi Li

University of Technology Sydney, Australia *September 2017 - September 2019*
Joint PhD Student
Advisor: Prof. Yi Yang, Dr. Liang Zheng

China University of Petroleum, China *September 2012 - June 2015*
Master in Engineering, Computer Science
Advisor: Prof. Zongmin Li

East China University of Technology, China *September 2008 - June 2012*
Bachelor in Engineering, Computer Science

Research Experience

Hefei University of Technology, China *Sep 2024 - Present*
Tenure-Track Professor

University of Nottingham, UK *Aug 2025 - Present*
Honorary Associate Professor

University of Nottingham, UK *July 2023 - Sep 2024*
Assistant Professor (Permanent)

University of Trento, Italy *December 2022 - July 2023*
Assistant Professor

University of Trento, Italy *February 2020 - December 2022*
Post-doctoral
Advisor: Prof. Nicu Sebe

Research Interests

I commit to designing trustworthy intelligent visual recognition systems for real-world applications. To achieve this goal, I mainly focus on the areas of data augmentation, unsupervised/weakly-/semi-supervised learning, federated learning, domain generalization/adaptation and novel class discovery, and investigate their advantages in visual tasks, such as object retrieval, image classification, semantic segmentation, multi-modality recognition, etc.

Selected Publications

1. Random Erasing Data Augmentation
   Zhun Zhong, Liang Zheng, Guoliang Kang, Shaozi Li, Yi Yang
   AAAI Conference on Artificial Intelligence (AAAI), Oral, 2020 (**5000+ citations**)
   PaperDigest Most Influential AAAI Papers (1st-Place in 2020)
   Contribution: This paper proposed one widely used data augmentation method in the computer vision

community. Its effectiveness has been demonstrated in many fields. It is also included in many deep learning libraries as common augmentation function.

2. Re-ranking Person Re-identification with k-reciprocal Encoding
Zhun Zhong, Liang Zheng, Donglin Cao, Shaozi Li
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2017 (**1900+ citations**)
Contribution: This paper proposed one widely used re-ranking method in person re-identification. It is now the most popular reranking approach in re-ID and is widely utilized in both academia and industry. It is also included in many re-ID libraries as an effective method to further boost the re-ID accuracy of different approaches.

3. Camera Style Adaptation for Person Re-identification
Zhun Zhong, Liang Zheng, Zhedong Zheng, Shaozi Li, Yi Yang
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2018 (**690+ citations**)
Contribution: This work highlights the importance of camera style variations in re-ID and inspired other researchers to solve the problem of re-ID from the perspective of camera style. Many works have demonstrated the significance of reducing the camera style variations, especially in unsupervised reID and domain adaptive re-ID.

4. Invariance Matters: Exemplar Memory for Domain Adaptive Person Re-identification
Zhun Zhong, Liang Zheng, Zhiming Luo, Shaozi Li, Yi Yang
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2019 (**690+ citations**)
Contribution: This paper first proposed the memory-based framework for open set domain adaptation, which enables the network to dynamically discover reliable positive pairs during training. Now, many papers have built their baselines based on my proposed memory-based framework to solve the problems of unsupervised re-ID and domain adaptive re-ID.

5. Generalizing A Person Retrieval Model Hetero- and Homogeneously
Zhun Zhong, Liang Zheng, Shaozi Li, Yi Yang
European Conference on Computer Vision (ECCV), 2018 (**510+ citations**)
Contribution: This work is one of the first attempts in the field of open-set instance retrieval. After that, more attentions are raised in this field. In addition, the proposed triplet-learning-based paradigm is widely investigated in the following works.

6. A Unified Objective for Novel Class Discovery
Enrico Fini, Enver Sangineto, Stephane Lathuiliere, **Zhun Zhong***, Moin Nabi , Elisa Ricci
IEEE Conference on International Conference on Computer Vision (ICCV), Oral, 2021 (**120+ citations**)
(* corresponding author)
Contribution: This work designs a unified objective for the task of novel class discovery (NCD), becoming a basic loss function in NCD. Specifically, more than 30 works built their framework based on our proposed unified objective.

Full Publications

***Corresponding Author $^{+}$Equal Contribution**

Peer-Reviewed Conference Papers

2025

1. Pseudo-SD: Pseudo Controlled Stable Diffusion for Semi-Supervised and Cross-Domain Semantic Segmentation
Dong Zhao, Qi Zang, Shuang Wang, Nicu Sebe, **Zhun Zhong***
International Conference on Computer Vision (ICCV), 2025

2. Generate, Refine, and Encode: Leveraging Synthesized Novel Samples for On-the-Fly Fine-Grained Category Discovery
Xiao Liu, Nan Pu, Haiyang Zheng, Wenjing Li, Nicu Sebe, **Zhun Zhong***
International Conference on Computer Vision (ICCV), 2025

3. Knowledge Swapping via Learning and Unlearning
Mingyu Xing, Lechao Cheng, Shengeng Tang, Yaxiong Wang, **Zhun Zhong***, Meng Wang
International Conference on Machine Learning (ICML), 2025

4. Beyond Artificial Misalignment: Detecting and Grounding Semantic-Coordinated Multimodal Manipulations
Jinjie Shen, Yaxiong Wang, Lechao Cheng, Nan Pu, **Zhun Zhong***
ACM Multimedia (MM) 2025

5. Towards Micro-Action Recognition with Limited Annotations: An Asynchronous Pseudo Labeling and Training Approach
Yan Zhang, Lechao Cheng, Yaxiong Wang, **Zhun Zhong***, Meng Wang
International Joint Conference on Artificial Intelligence (IJCAI), 2025

6. Noisy Test-Time Adaptation in Vision-Language Models
Chentao Cao, **Zhun Zhong***, Zhanke Zhou, Tongliang Liu, Yang Liu, Kun Zhang, Bo Han
International Conference on Learning Representations (ICLR), 2025

7. ASAP: Advancing Semantic Alignment Promotes Multi-Modal Manipulation Detecting and Grounding
Zhenxing Zhang, Yaxiong Wang, Lechao Cheng, **Zhun Zhong**, Dan Guo, Meng Wang
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2025

8. Feature Spectrum Learning for Remote Sensing Change Detection
Qi Zang, Dong Zhao, Shuang Wang, Dou Quan, Licheng Jiao, **Zhun Zhong**
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2025

   FisherTune: Fisher-Guided Robust Tuning of Vision Foundation Models for Domain Generalized Segmentation
   Dong Zhao, Jinlong Li, Shuang Wang, Mengyao Wu, Qi Zang, Nicu Sebe, **Zhun Zhong**
   IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2025

9. Prior-Constrained Association Learning for Fine-Grained Generalized Category Discovery
Menglin Wang, **Zhun Zhong***, Xiaojin Gong
AAAI Conference on Artificial Intelligence (AAAI), 2025.

10. ChangeDiff: A Multi-Temporal Change Detection Data Generator with Flexible Text Prompts via Diffusion Model
Qi Zang, Jiayi Yang, Shuang Wang, Dong Zhao, Wenjun Yi, **Zhun Zhong**
AAAI Conference on Artificial Intelligence (AAAI), 2025.

2024

11. Connectivity-Driven Pseudo-Labeling Makes Stronger Cross-Domain Segmenters
Dong Zhao, Qi Zang, Shuang Wang, Nicu Sebe, **Zhun Zhong***
Conference on Neural Information Processing Systems (NeurIPS), 2024

12. Prototypical Hash Encoding for On-the-Fly Fine-Grained Category Discovery
Haiyang Zheng, Nan Pu, Wenjing Li, Nicu Sebe, **Zhun Zhong***
Conference on Neural Information Processing Systems (NeurIPS), 2024

13. Cross-Modality Perturbation Synergy Attack for Person Re-identification
Yunpeng Gong, **Zhun Zhong**, Yansong Qu, Zhiming Luo, Rongrong Ji, Min Jiang
Conference on Neural Information Processing Systems (NeurIPS), 2024

14. Happy: A Debiased Learning Framework for Continual Generalized Category Discovery
Shijie Ma, Fei Zhu, **Zhun Zhong**, Wenzhuo Liu, Xu-Yao Zhang, Cheng-Lin Liu
Conference on Neural Information Processing Systems (NeurIPS), 2024

15. Textual Knowledge Matters: Cross-Modality Co-Teaching for Generalized Visual Class Discovery
Haiyang Zheng, Nan Pu, Wenjing Li, Nicu Sebe, **Zhun Zhong***
European Conference on Computer Vision (ECCV), 2024

16. Learning to Distinguish Samples for Generalized Category Discovery
Fengxiang Yang, Nan Pu, Wenjing Li, Zhiming Luo, Shaozi Li, Nicu Sebe, **Zhun Zhong***
European Conference on Computer Vision (ECCV), 2024

17. ReMamber: Referring Image Segmentation with Mamba Twister
Yuhuan Yang, Chaofan Ma, Jiangchao Yao, **Zhun Zhong***, Ya Zhang, Yan-Feng Wang
European Conference on Computer Vision (ECCV), 2024

18. Envisioning Outlier Exposure by Large Language Models for Out-of-distribution Detection
Chentao Cao, **Zhun Zhong***, Zhanke Zhou, Yang Liu, Tongliang Liu, Bo Han
International Conference on Machine Learning (ICML), 2024

19. Federated generalized category discovery
Nan Pu, Wenjing Li, Xinyuan Ji, Yalan Qin, Nicu Sebe, and **Zhun Zhong***
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2024

20. Stable Neighbor Denoising for Source-free Domain Adaptive Segmentation
Dong Zhao, Shuang Wang, Qi Zang , Licheng Jiao, Nicu Sebe, and **Zhun Zhong***
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2024

21. Active Generalized Category Discovery
Shijie Ma, Fei Zhu, **Zhun Zhong**, Xu-Yao Zhang, and Cheng-Lin Liu
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2024

22. Frequency Decoupling for Motion Magnification via Multi-Level Isomorphic Architecture
Fei Wang, Dan Guo, Kun Li, **Zhun Zhong**, and Meng Wang
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2024

23. Democratizing Fine-grained Visual Recognition with Large Language Models
Mingxuan Liu, Subhankar Roy, Wenjing Li, **Zhun Zhong***, Nicu Sebe, Elisa Ricci
International Conference on Learning Representations (ICLR), 2024

24. Diversity-Authenticity Co-constrained Stylization for Federated Domain Generalization in Person Re-identification
Fengxiang Yang, **Zhun Zhong**, Zhiming Luo, Yifan He, Shaozi Li, and Nicu Sebe
AAAI Conference on Artificial Intelligence (AAAI), 2024

2023

25. Discover and Align Taxonomic Context Priors for Open-world Semi-Supervised Learning
Yu Wang, **Zhun Zhong**, Pengchong Qiao, Xuxin Cheng, Xiawu Zheng, Chang Liu, Nicu Sebe, Rongrong Ji, Jie Chen
Conference on Neural Information Processing Systems (NeurIPS), 2023

26. Sparsely Annotated Semantic Segmentation with Adaptive Gaussian Mixtures
Linshan Wu, **Zhun Zhong**, Leyuan Fang, Xingxin He, Qiang Liu, Jiayi Ma, Hao Chen
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2023

27. Dynamically Instance-Guided Adaptation: A Backward-free Approach for Test-Time Domain Adaptive Semantic Segmentation
Wei Wang, **Zhun Zhong**, Weijie Wang, Xi Chen, Charles Ling, Boyu Wang, Nicu Sebe
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2023

28. Dynamic Conceptional Contrastive Learning for Generalized Category Discovery
Nan Pu, **Zhun Zhong***, Nicu Sebe
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2023

29. Cross-Modality Earth Mover's Distance for Visible Thermal Person Re-Identification
Yongguo Ling, **Zhun Zhong**, Zhiming Luo, Fengxiang Yang, Donglin Cao, Shaozi Li, Nicu Sebe
AAAI Conference on Artificial Intelligence (AAAI), 2023

30. Exploring Non-Target Knowledge for Improving Ensemble Universal Adversarial Attacks
Juanjuan Weng, Zhiming Luo, **Zhun Zhong**, Dazhen Lin, Shaozi Li
AAAI Conference on Artificial Intelligence (AAAI), 2023

31. Multi-View Domain Adaptive Object Detection on Camera Networks
Yan Lu, **Zhun Zhong**, Yuanchao Shu
AAAI Conference on Artificial Intelligence (AAAI), 2023

2022

32. Adversarial Style Augmentation for Domain Generalized Urban-Scene Segmentation
Zhun Zhong^{*+}, Yuyang Zhao^{+}, Gim Hee Lee, Nicu Sebe
The Conference on Neural Information Processing Systems (NeurIPS), 2022

33. Class-incremental Novel Class Discovery
Subhankar Roy, Mingxuan Liu, **Zhun Zhong***, Nicu Sebe, Elisa Ricci
European Conference on Computer Vision (ECCV), 2022

34. Style-Hallucinated Dual Consistency Learning for Domain Generalized Semantic Segmentation
Yuyang Zhao, **Zhun Zhong**, Na Zhao, Nicu Sebe, Gim Hee Lee
European Conference on Computer Vision (ECCV), 2022

35. 3D-Aware Semantic-Guided Generative Model for Human Synthesis
Subhankar Roy, Mingxuan Liu, Jichao Zhang, Enver Sangineto, Hao Tang, Aliaksandr Siarohin, **Zhun Zhong**, Nicu Sebe, Wei Wang
European Conference on Computer Vision (ECCV), 2022

36. Novel Class Discovery in Semantic Segmentation
Yuyang Zhao, **Zhun Zhong**, Nicu Sebe, Gim Hee Lee
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2022

2021

37. A Unified Objective for Novel Class Discovery
Enrico Fini, Enver Sangineto, Stephane Lathuiliere, **Zhun Zhong***, Moin Nabi , Elisa Ricci
IEEE Conference on International Conference on Computer Vision (ICCV), Oral, 2021 (**120+ citation**s)

38. Neighborhood Contrastive Learning for Novel Class Discovery
Zhun Zhong, Enrico Fini, Subhankar Roy, Zhiming Luo, Elisa Ricci, Nicu Sebe
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2021 (**120+ citations**)

39. OpenMix: Reviving Known Knowledge for Discovering Novel Visual Categories in An Open World
Zhun Zhong, Linchao Zhu, Zhiming Luo, Shaozi Li, Yi Yang, Nicu Sebe
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2021 (**100+ citations**)

40. Joint Noise-Tolerant Learning and Meta Camera Shift Adaptation for Unsupervised Person Re-Identification
Fengxiang Yang^{+}, **Zhun Zhong**$^{+}$, Zhiming Luo, Yuanzheng Cai, Shaozi Li, Nicu Sebe
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2021 (**110+ citations**)

41. Learning to Generalize Unseen Domains via Memory-based Multi-Source Meta-Learning for Person Re-Identification
Yuyang Zhao^{+}, **Zhun Zhong**$^{+}$, Fengxiang Yang, Zhiming Luo, Shaozi Li, Nicu Sebe
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2021 (**170+ citations**)

42. Curriculum Graph Co-Teaching for Multi-Target Domain Adaptation
Subhankar Roy, Evgeny Krivosheev, **Zhun Zhong***, Elisa Ricci, Nicu Sebe
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2021

43. Learning to Attack Real-World Models for Person Re-identification via Virtual-Guided Meta-Learning
Fengxiang Yang, **Zhun Zhong**, Hong Liu, Zheng Wang, Zhiming Luo, Shaozi Li, Nicu Sebe, Shin'ichi Satoh.
AAAI Conference on Artificial Intelligence (AAAI), 2021

2020

44. Random Erasing Data Augmentation
Zhun Zhong, Liang Zheng, Guoliang Kang, Shaozi Li, Yi Yang
AAAI Conference on Artificial Intelligence (AAAI), Oral, 2020 (**4100+ citations**)
PaperDigest Most Influential AAAI Papers (1st-Place in 2020)

45. Class-Aware Modality Mix and Center-guided Metric Learning for Visible-Thermal Person Re-Identification
Yongguo Lin, **Zhun Zhong**, Zhiming Luo, Palo Rota, Shaozi Li, Nicu Sebe
ACM International Conference on Multimedia (MM), Oral, 2020

46. Asymmetric Co-Teaching for Unsupervised Cross Domain Person Re-Identification
Fengxiang Yang, Ke Li, **Zhun Zhong**, Zhiming Luo, Shaozi Li, et al.
AAAI Conference on Artificial Intelligence (AAAI), 2020 (**170+ citations**)

Before 2019

47. Invariance Matters: Exemplar Memory for Domain Adaptive Person Re-identification
Zhun Zhong, Liang Zheng, Zhiming Luo, Shaozi Li, Yi Yang
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2019 (**690+ citations**)

48. Camera Style Adaptation for Person Re-identification
Zhun Zhong, Liang Zheng, Zhedong Zheng, Shaozi Li, Yi Yang
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2018 (**690+ citations**)

49. Generalizing A Person Retrieval Model Hetero- and Homogeneously
Zhun Zhong, Liang Zheng, Shaozi Li, Yi Yang
European Conference on Computer Vision (ECCV), 2018 (**510+ citations**)

50. Re-ranking Person Re-identification with k-reciprocal Encoding
Zhun Zhong, Liang Zheng, Donglin Cao, Shaozi Li
IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2017 (**1700+ citations**)

Peer-Reviewed Journal Papers

2025

1. SeCoV2: Semantic Connectivity-driven Pseudo-Labeling for Robust Cross-Domain Semantic Segmentation
Dong Zhao, Qi Zang, Nan Pu, Nicu Sebe, **Zhun Zhong***
IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2025.

2. Modeling the Label Distributions for Weakly-Supervised Semantic Segmentation
Linshan Wu, **Zhun Zhong**, Jiayi Ma, Yunchao Wei, Hao Chen, Leyuan Fang, Shutao Li
IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2025.

3. Person Re-Identification With Arbitrary Modalities: A Multi-Modal Dataset and a Unified Framework
Jingjing Wu, **Zhun Zhong***, Yanrong Guo, Shejiao Hu, Richang Hong
IEEE Transactions on Information Forensics and Security (TIFS), 2025.

2024

4. A Self-Adaptive Feature Extraction Method for Aerial-view Geo-localization
Jinliang Lin, Zhiming Luo, Dazhen Lin, Shaozi Li, **Zhun Zhong***
IEEE Transactions on Image Processing (TIP), 2024.

5. Boosting Adversarial Transferability via Logits Mixup With Dominant Decomposed Feature
Juanjuan Weng, Zhiming Luo, Shaozi Li, Dazhen Lin, **Zhun Zhong**
IEEE Transactions on Information Forensics and Security (TIFS), 2024.

2023

6. A Memorizing and Generalizing Framework for Lifelong Person Re-Identification
Nan Pu, **Zhun Zhong***, Nicu Sebe, MS Lew
IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2023.

7. Efficient Layer Compression without Pruning
Jie Wu, Dingshun Zhu, Leyuan Fang, Yue Deng, **Zhun Zhong**
IEEE Transactions on Image Processing (TIP), 2023.

8. Style-Hallucinated Dual Consistency Learning: A Unified Framework for Visual Domain Generalization
Yuyang Zhao, **Zhun Zhong**, Na Zhao, Nicu Sebe, and Gim Hee Lee
International Journal of Computer Vision (IJCV), 2023

9. Mitigating Robust Overfitting via Self-Residual-Calibration Regularization
Hong Liu, **Zhun Zhong***, Nicu Sebe, Shin'ichi Satoh
Artificial Intelligence (AI), 2023

10. Querying Labeled for Unlabeled: Cross-Image Semantic Consistency Guided Semi-Supervised Semantic Segmentation
Linshan Wu, Leyuan Fang, Xingxin He, Min He, Jiayi Ma, **Zhun Zhong**
IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2023.

11. 100-Driver: A Large-Scale, Diverse Dataset for Distracted Driver Classification
Jing Wang, Wenjing Li, Fang Li, Jun Zhang, Zhongcheng Wu, **Zhun Zhong**, Nicu Sebe
IEEE Transactions on Intelligent Transportation Systems (TITS), 2023

12. Logit Margin Matters: Improving Transferable Targeted Adversarial Attack by Logit Calibration
Juanjuan Weng, Zhiming Luo, Shaozi Li, Nicu Sebe, **Zhun Zhong**
IEEE Transactions on Information Forensics and Security (TIFS), 2023.

13. Win-win by competition: Auxiliary-free cloth-changing person re-identification
Zhengwei Yang, Xian Zhong, **Zhun Zhong**, Hong Liu, Zheng Wang, Shin'ichi Satoh
IEEE Transactions on Image Processing (TIP), 2023.

2022

14. Towards Robust Person Re-Identification by Defending Against Universal Attackers
Fengxiang Yang, Juanjuan Weng, **Zhun Zhong**, Hong Liu, Zheng Wang, Zhiming Luo, Donglin Cao, Shaozi Li, Shin'ichi Satoh, Nicu Sebe
IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2022.

15. Structure-Guided Cross-Attention Network for Cross-Domain OCT Fluid Segmentation
Xingxin He, **Zhun Zhong**, Leyuan Fang, Min He, and Nicu Sebe
IEEE Transactions on Image Processing (TIP), 2022

16. Joint Representation Learning and Keypoint Detection for Cross-view Geo-localization
Jinliang Lin, Zhedong Zheng, **Zhun Zhong**, Zhiming Luo, Shaozi Li, Yi Yang, Nicu Sebe
IEEE Transactions on Image Processing (TIP), 2022

17. Source-Free Open Compound Domain Adaptation in Semantic Segmentation
Yuyang Zhao^{+}, **Zhun Zhong**$^{*+}$, Zhiming Luo, Gim Hee Lee, Nicu Sebe
IEEE Transactions on Circuits and Systems for Video Technology (TCSVT), 2022

2020

18. Leveraging Virtual and Real Person for Unsupervised Person Re-identification
Fengxiang Yang, **Zhun Zhong**, Zhiming Luo, Sheng Lian, Shaozi Li
IEEE Transactions on Multimedia (TMM), 2020

19. Learning to Adapt Invariance in Memory for Person Re-identification
Zhun Zhong, Liang Zheng, Zhiming Luo, Shaozi Li, Yi Yang
IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2020. (**180+ citations**)

Before 2019

20. CamStyle: A Novel Data Augmentation Method for Person Re-identification
Zhun Zhong, Liang Zheng, Zhedong Zheng, Shaozi Li, Yi Yang
IEEE Transactions on Image Processing (TIP), 2019 (**300+ citations**)

21. Class-Specific Object Proposals Re-ranking for Object Detection in Automatic Driving
Zhun Zhong, Mingyi Lei, Donglin Cao, Jianping Fan, Shaozi Li
Neurocomputing, 2017

22. Detecting Ground Control Points via Convolutional Neural Network for Stereo Matching
Zhun Zhong, Songzhi Su, Donglin Cao, Shaozi Li, Zhihan Lv
Multimedia Tools and Applications (MTA), 2016

Professional Services

Area Chair / Senior Program Committee

- Conference on Neural Information Processing Systems (NeurIPS): 2024&2025 (Area Chair)
- International Conference on Machine Learning (ICML): 2024&2025&2026 (Area Chair)
- International Conference on Learning and Representation (ICLR): 2024&2025&2026 (Area Chair)
- IEEE Conference on Computer Vision and Pattern Recognition (CVPR): 2024&2025&2026 (Area Chair)
- European Conference on Computer Vision (ECCV) 2024 (Area Chair):
- ACM Multimedia (MM): 2022&2024&2025 (Area Chair)
- ACM Multimedia (MM): 2022 (Open Source Competition Chair)
- AAAI Conference on Artificial Intelligence (AAAI): 2022, 2026 (Senior PC)
- International Joint Conferences on Artificial Intelligence (IJCAI): 2021 (Senior PC)

Journal Editor

- Guest Editor: International Journal of Computer Vision (IJCV), 2024&2025
- Associate Editor: Image and Visual Computing (IVC), 2024-now
- Associate Editor: Computer Vision and Image Understanding (CVIU), 2024-now
- Guest Editor: Computer Vision and Image Understanding (CVIU), 2024

Conference Paper Reviewer

- IEEE Conference on Computer Vision and Pattern Recognition (CVPR): 2019-2023
- IEEE International Conference on Computer Vision (ICCV): 2019-2023
- European Conference on Computer Vision (ECCV): 2020-2022
- International Conference on Learning and Representation (ICLR): 2021-2023
- International Conference on Machine Learning (ICML): 2022-2023
- Conference on Neural Information Processing Systems (NeurIPS): 2020-2022
- ACM Multimedia (MM): 2020-2023
- AAAI Conference on Artificial Intelligence (AAAI): 2019-2023
- International Joint Conferences on Artificial Intelligence (IJCAI): 2021-2023

Journal Paper Reviewer

- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)
- International Journal of Computer Vision (IJCV)
- IEEE Transactions on Image Processing (TIP)
- IEEE Transactions on Multimedia (TMM)
- Transactions on Machine Learning Research (TMLR)

- IEEE Transactions on Circuits and Systems for Video Technology (TCSVT)
- Neurocomputing

Workshop

- ICMR 2024 Workshop Multimedia Object Re-ID. Organizers.

Other Services

- Evaluator of ELLIS PhD Program 2022-2023

Teaching Experience

- **Lecturer.** Trends and Applications of Computer Vision, Master Course, University of Trento, 2022/2023.
- **Teaching Assistant.** Introduction to Computer Vision, Master Course, Xiamen University, 2016/2017.
- **Teaching Assistant.** Introduction to Computer Vision, Master Course, Xiamen University, 2015/2016.

Invited Talks

- **ChangeDiff: A Multi-Temporal Change Detection Data Generator with Flexible Text Prompts via Diffusion Model**. VALSE, Jan 2025.
- **Novel Class Discovery: A Tutorial**. Anhui AI Association, Dec 2024.
- **Foundation Models Meet Novel Class Discovery**. Xiamen University, Nov 2024.
- **Democratizing Fine-grained Visual Recognition with Large Language Models**. Swansea University, April 2024.
- **Towards Practical Category Discovery**. Beijing Jiao Tong University, Mar 2024.
- **Trustworthy Object Re-Identification**. Keynote speaker at Real-World Surveillance: Applications and Challenges of WACV 2024.
- **Towards Practical Category Discovery**. Shanghai Jiao Tong University, Dec 2023.
- **Trends in Novel Class Discovery**. University of Nottingham, Nov 2023.
- **Style Matters in Domain Generalized Semantic Segmentation**. Hefei University of Technology, May 2023.
- **Techniques in Novel Class Discovery**. NAVER LABS Europe, June 2022.
- **Research Experience and Tips**. China University of Petroleum, April 2022.
- **Random Erasing Data Augmentation**. "Excellent Papers in Computer Vision", China Society of Image and Graphics, Jan 2022.
- **A Life of One Paper**. Xiamen University, Nov 2021.
- **Novel Class Discovery**. University of Trento, May 2021.
- **Research Experience and Tips**. Xiamen University, Dec 2019.
- **Textures, Objects, and Scenes**. CVPR 2019 Tutorial, on behalf of Dr. Liang Zheng.
- **Target Re-Identification and Multi-Target Multi-Camera Tracking**. Hosted a CVPR 2019 workshop, on behalf of Dr. Liang Zheng.
- **Representation Learning in Pedestrian Re-identification**. ECCV Tutorial 2018, on behalf of Dr. Liang Zheng.

Awards

- **World's Top 2% Scientists 2025 by Stanford University**.
- **Elsevier Highly Cited Chinese Researchers, 2024.**
- **World's Top 2% Scientists 2024 by Stanford University**.
- **World's Top 2% Scientists 2023 by Stanford University**.
- **World's Top 2% Scientists 2022 by Stanford University**.
- **AI 2000 Most Influential Scholar Honorable Mention in AAAI/IJCAI:** AMiner, 2025.
- **AI 2000 Most Influential Scholar Honorable Mention in AAAI/IJCAI:** AMiner, 2024.
- **AI 2000 Most Influential Scholar Honorable Mention in AAAI/IJCAI:** AMiner, 2023.
- **AI 2000 Most Influential Scholar Honorable Mention in AAAI/IJCAI:** AMiner, 2022.
- **Outstanding Reviewer:** NeurIPS 2021.
- **Outstanding Reviewer:** CVPR 2020.
- **Outstanding Graduate Student**, Xiamen University, 2020.
- **National Scholarships**, China, 2019.