Jingdong Wang (PhD, IEEE Fellow)

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Beijing 100193, P.R.China	https://jingdongwang2017.github.io/
	https://dblp.uni-trier.de/pid/49/3441.html
Education	
Ph.D, Computer Science	2004.09 - 2007.08

2001.09 - 2004.07

1997.09 - 2001.07

The Hong Kong University of Science and Technology

M.Eng, Automation Tsinghua University Excellent master degree thesis award

B.Eng, Automation (Rank: 1/150) Tsinghua University

Research Interests

Computer vision and multimedia search

Vision foundation model, Self-supervised learning, Neural architecture design, human pose estimation, semantic segmentation, object detection, image classification, large scale indexing (vector search), large scale image search, salient object detection.

Machine learning and pattern recognition

Large scale learning, graph-based learning, probabilistic graphical modeling, kernel methods, spectral clustering.

Work Experience

Chief Scientist for Computer Vision Baidu	2021.09 - present
Senior Principal Research Manager (formerly Principal Research Manager) Microsoft Research Asia	2019.09 - 2021.08
Ph.D Supervisor University of Science and Technology, China	2017.09 - 2021.08
Principal Researcher (formerly Senior Researcher) Microsoft Research Asia	2017.09 - 2019.08
Principal Researcher (formerly Lead Researcher) Microsoft Research Asia	2015.09 - 2017.08
Senior Researcher (formerly Lead Researcher) Microsoft Research Asia	2013.09 - 2015.08
Senior Researcher (formerly Researcher) Microsoft Research Asia	2012.03 - 2013.08

Researcher (formerly Associate Researcher) Microsoft Research Asia

Research and Teaching Assistants The Hong Kong University of Science and Technology Advisor: Long Quan

Research Intern Microsoft Research Asia Mentor: Heung-Yeung Shum

Research Assistant Tsinghua University Advisor: Changshui Zhang

Professional Activities

Senior Area chair CVPR 2024

Area/track chair

NeurIPS 2023, ICCV 2023, CVPR 2023, AAAI 2023, ICPR 2022, AAAI 2022, CVPR 2021, AAAI 2021, IJCAI 2021, ECCV 2020, CVPR 2020, IJCAI 2020, ICCV 2019, IJCAI 2019, ACMMM 2018, ICCV 2017, CVPR 2017, ECCV 2016, ACMMM 2015, ICPR 2018, ICIP 2017, ICME 2015, ICME 2012

Senior programme committee member

AAAI 2019, IJCAI 2018, AAAI 2018

Conference organizers

ACMMM 2024, Sponsor chair ACMMM 2021, open source software chair ACMMM Asia 2020, general chair IEEE ICME 2019, workshop co-chair ACM ICMR 2014, special session co-chair

Associate editors/editorial board members

ACM Transactions on Multimedia Computing Communications and Applications (July 2023 -) International Journal of Computer Vision (Aug. 2021 -) IEEE Transactions on Pattern Analysis and Machine Intelligence (Sept. 2018 -)

IEEE Transactions on Circuits and Systems for Video Technology (Jan. 2018 - Jan. 2022)

IEEE Transactions on Multimedia (May 2016 - May 2020)

Neurocomputing (April 2015 - May 2017)

Multimedia Tools and Applications (October 2011 -)

Workshop organizers

Workshop on Foundation Models: 1st Foundation Model Challenge. (CVPR 2023)

Fourth Workshop on Neural Architecture Search, Third lightweight NAS challenge. (CVPR 2023)

Billion-Scale Approximate Nearest Neighbor Search Challenge: NeurIPS'21 competition track. (NeurIPS 2021

The 2nd International Workshop on Deep Learning for Pattern Recognition (DLPR 2020) (ICPR 2020) The 2nd workshop and challenge on Target Re-Identification and Multi-Target Multi-Camera Tracking (CVPR 2019)

The 2nd International Workshop on Deep Learning for Pattern Recognition (DLPR 2018) (ICPR 2018) The 1st workshop on Target Re-Identification and Multi-Target Multi-Camera Tracking (CVPR 2017) The 1st International Workshop on Deep Learning for Pattern Recognition (DLPR 2016), (ICPR 2016)

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2007.09 - 2012.02

2004.09 - 2007.08

2005.07 - 2005.122003.09 - 2004.05

2001.09 - 2004.07

Big Media Data: Understanding, Search, and Mining (ICDM 2015) Advances in LargeScale Multimedia Data Collection, Mining and Retrieval (ICME 2012)

Special issue guest editor

Human Pose Estimation and Its Applications (Machine Vision and Applications, 2023) Fine-grained image categorization (IEEE Trans. Pattern Anal. Mach. Intell., 2018) Intelligent urban computing with big data (Machine Vision and Applications, 2017) Big Media Data: Understanding, Search, and Mining (IEEE Transactions on Big Data, 2016) Ad Hoc Web Multimedia Analysis with Limited Supervision (Multimedia Tools and Applications, 2015)

Programme committee members or conference reviewers

ICML (2018), ICLR (2018 - 2019), CVPR (2009 - 2016, 2018), ICCV (2007/09/11/13/15), ECCV (2010/12/14), ACMMM (2009/12/13/14/17), NIPS (2014 - 2018) SIGIR (2011/13), SIGGRAPH Asia (2010), SIGKDD (2010), SIGCHI (2010), IJCAI (2011/13), ICMR (2011/12), ICME (2009/10/11), CIVR (2010), IJCNN (2007/09), ACCV (2007), ICPR (2006)

Honors and Awards

Honors and Awards		
Fellow	IEEE	2022
The second prize	Natural science of China Society of Image and	2022
	Graphics	
Fellow	AAIA	2021
Featured ACM Member	ACM	2021
Outstanding service award	ICME	2019
ACM Distinguished Member	ACM	2018
Fellow	IAPR	2018
Best paper runner up	Workshop on Big Data Analytics for Social	2018
	Computing	
The first prize	Natural science of Ministry of Education of	2017
	China	
Best paper runner-up	ACMMM	2015
Outstanding reviewer	CVPR	2014
Gold star	Microsoft	2009
Graduate Fellowship	HKUST	2004 - 2007
Excellent Master Degree Thesis Award	Tsinghua University	2004
Excellent Master Scholarship	Tsinghua University	2003
Title of Graduate with Honors (top 5%)	Tsinghua University	2001
Rockwell Scholarship	Tsinghua University	2000
Friend-Eastern Communications Scholarship	Tsinghua University	1999
Outstanding Student Scholarship	Tsinghua University	1998
Rank $\#1$	nuScenes tracking task (camera) leaderboard	11/2022
Rank #1	nuScenes tracking task (Lidar) leaderboard	11/2022
Rank $\#1$	COCO object detection leaderboard	11/8/2022
Rank #1	standard English and Chinese benchmarks	05/2022
Rank $\#1$	cityscapes segmentation leaderboard	01/2020
Second place	COCO keypoints detection challenge (ECCV 2018)	2018
	/	

Publications (Google Scholar citations: 44725, h-index: 89)

Google Scholar citations (PDF Document Clickable Link):

https://scholar.google.com/citations?user=z5SPCmgAAAAJ&hl=en

The interns and supervisees are in **bold**.

Book

 Jingdong Wang. Graph Based Image Segmentation: A Modern Approach. ISBN-10: 3639110749, ISBN-13: 978-3639110746. VDM Verlag Dr. Muller Aktiengesellschaft & Co. KG. 2008.

Book chapters

- [1] Jingdong Wang, Jing Wang, Gang Zeng, Rui Gan, Shipeng Li, and Baining Guo. Fast Neighborhood Graph Search using Cartesian Concatenation. Multimedia Data Mining and Analytics: Disruptive Innovation. Edited by Aaron K. Baughman, Jiang Gao, Jia-Yu Pan, and Valery Petrushin, 397-417, Springer, 2015.
- [2] Jingdong Wang, Jing Wang, Qifa Ke, Gang Zeng, and Shipeng Li. Fast Approximate K-Means via Cluster Closures. Multimedia Data Mining and Analytics: Disruptive Innovation. Edited by Aaron K. Baughman, Jiang Gao, Jia-Yu Pan, and Valery Petrushin, 373-395, Springer, 2015.
- [3] Jingdong Wang, Yinghai Zhao, and Xian-Sheng Hua. Image Search by Color Map. Internet Multimedia Search and Mining. Edited by Xian-Sheng Hua, Marcel Worring, and Tat-Seng Chua. Bentham Science Publishers, 2010.

Technical reports

- [1] Kai Chen, Jiaqi Wang, Jiangmiao Pang, Yuhang Cao, Yu Xiong, Xiaoxiao Li, Shuyang Sun, Wansen Feng, Ziwei Liu, Jiarui Xu, Zheng Zhang, Dazhi Cheng, Chenchen Zhu, Tianheng Cheng, Qijie Zhao, Buyu Li, Xin Lu, Rui Zhu, Yue Wu, Jifeng Dai, Jingdong Wang, Jianping Shi, Wanli Ouyang, Chen Change Loy, and Dahua Lin. MMDetection: Open MMLab Detection Toolbox and Benchmark. *CoRR*, abs/1906.07155, 2019.
- [2] Liming Zhao, Jingdong Wang, Xi Li, Zhuowen Tu, and Wenjun Zeng. On the connection of deep fusion to ensembling. *CoRR*, abs/1611.07718, 2016.
- [3] Jingdong Wang, Zhen Wei, Ting Zhang, and Wenjun Zeng. Deeply-fused nets. CoRR, abs/1605.07716, 2016.

Top referred journals: TPAMI (12), IJCV (9), TOG (3), TIP (8), TMM (7), TOMM (2), TKDE (1)

- Xiaokang Chen, Mingyu Ding, Xiaodi Wang, Ying Xin, Shentong Mo, Yunhao Wang, Shumin Han, Ping Luo, Gang Zeng, and Jingdong Wang. Context Autoencoder for Self-Supervised Representation Learning. *International Journal of Computer Vision*, 2023.
- [2] Yan Huang, Jingdong Wang, and Liang Wang. Few-Shot Image and Sentence Matching via Aligned Cross-Modal Memory. *IEEE Trans. Pattern Anal. Mach. Intell.*, 2022.
- [3] Yuhui Yuan, Lang Huang, Jianyuan Guo, Chao Zhang, Xilin Chen and Jingdong Wang. OC-Net: Object Context for Semantic Segmentation. International Journal of Computer Vision, 2021.
- [4] Jingdong Wang, Ke Sun, Tianheng Cheng, Borui Jiang, Chaorui Deng, Yang Zhao, Dong Liu, Yadong Mu, Mingkui Tan, Xinggang Wang, Wenyu Liu, and Bin Xiao. Deep High-Resolution Representation Learning for Visual Recognition. *IEEE Trans. Pattern Anal. Mach. Intell.*, 2021.
- [5] Jingchun Cheng, Yuhui Yuan, Yali Li, Jingdong Wang, and Shengjin Wang. Learning to Segment Video Object With Accurate Boundaries. *IEEE Trans. Multimedia*, 2021.
- [6] Dengpan Fu, Bo Xin, Jingdong Wang, Dongdong Chen, Jianmin Bao, Gang Hua and Houqiang Li Improving Person Re-Identification With Iterative Impression Aggregations. *IEEE Trans. Image Processing*, 2020.
- [7] Yifan Liu, Changyong Shu, Jingdong Wang, and Chunhua Shen. Structured Knowledge Distillation for Dense Prediction. *IEEE Trans. Pattern Anal. Mach. Intell.*, 2020.

- [8] Zilong Huang, Chunyu Wang, Xinggang Wang, Wenyu Liu, and Jingdong Wang Semantic Image Segmentation by Scale-Adaptive Networks. *IEEE Trans. Image Processing*, 2019.
- [9] Peng Tang, Chunyu Wang, Xinggang Wang, Wenyu Liu, and Jingdong Wang. Object Detection in Videos by High Quality Object Linking. *IEEE Trans. Pattern Anal. Mach. Intell.*, 2020.
- [10] Song Bai, Zhichao Zhou, Jingdong Wang, Xiang Bai, Longin Jan Latecki and Qi Tian. Automatic Ensemble Diffusion for 3D Shape and Image Retrieval. *IEEE Trans. Image Processing*, 28(1):88-101, 2019.
- [11] Jingdong Wang and Ting Zhang. Composite Quantization. IEEE Trans. Pattern Anal. Mach. Intell., 2019.
- [12] Qiurui Wang, Chun Yuan, Jingdong Wang and Wenjun Zeng. Learning Attentional Recurrent Neural Network for Visual Tracking. *IEEE Trans. Multimedia*, 2019.
- [13] Hong Liu, Rongrong Ji, Jingdong Wang, and Chunhua Shen. Ordinal Constraint Binary Coding for Approximate Nearest Neighbor Search. *IEEE Trans. Pattern Anal. Mach. Intell.*, 2018.
- [14] Jingdong Wang, Ting Zhang, Jingkuan Song, Nicu Sebe, and Heng Tao Shen. A Survey on Learning to Hash. *IEEE Trans. Pattern Anal. Mach. Intell.*, 40(4):769-790, 2018.
- [15] Na Qi, Yunhui Shi, Xiaoyan Sun, Jingdong Wang, Baocai Yin, and Junbin Gao. Multi-Dimensional Sparse Models. *IEEE Trans. Pattern Anal. Mach. Intell.*, 40(1):163-178, 2018.
- [16] Weiyao Lin, Yang Shen, Junchi Yan, Mingliang Xu, Jianxin Wu, Jingdong Wang, and Ke Lu. Learning Correspondence Structures for Person Re-identification. *IEEE Trans. Image Processing*, 26(5):2438-2453, 2017.
- [17] Dapeng Chen, Zejian Yuan, Jingdong Wang, Gang Hua, and Nanning Zheng. Examplar-Guided Similarity Learning on Polynomial Feature Map for Person Re-Identification. International Journal of Computer Vision, 123(3):392-414, 2017.
- [18] Jingdong Wang, Huaizu Jiang, Zejian Yuan, Ming-Ming Cheng, Xiaowei Hu, and Nanning Zheng. Salient Object Detection: A Discriminative Regional Feature Integration Approach. International Journal of Computer Vision, 123(2):251-268, 2017.
- [19] Lingxi Xie, JingdongWang, Weiyao Lin, Bo Zhang, and Qi Tian. Towards Reversal-Invariant Image Representation. International Journal of Computer Vision, 123(2):226-250, 2017.
- [20] Dapeng Chen, Zejian Yuan, Gang Hua, Jingdong Wang, and Nanning Zheng. Multi-Timescale Collaborative Tracking. *IEEE Trans. Pattern Anal. Mach. Intell.*, 39(1):141–155, 2017.
- [21] Liang Zheng, Shengjin Wang, Jingdong Wang, and Qi Tian. Accurate image search with multi-scale contextual evidences. *International Journal of Computer Vision*, 120(1):1–13, 2016.
- [22] Dingwen Zhang, Junwei Han, Chao Li, Jingdong Wang, and Xuelong Li. Detection of co-salient objects by looking deep and wide. *International Journal of Computer Vision*, 120(2):215–232, 2016.
- [23] Xi Li, Xueyi Zhao, Zhongfei Zhang, Fei Wu, Yueting Zhuang, Jingdong Wang, and Xuelong Li. Joint multilabel classification with community-aware label graph learning. *IEEE Trans. Image Processing*, 25(1):484–493, 2016.
- [24] Weiyao Lin, Yang Mi, Weiyue Wang, Jianxin Wu, Jingdong Wang, and Tao Mei. A diffusion and clustering-based approach for finding coherent motions and understanding crowd scenes. *IEEE Trans. Image Processing*, 25(4):1674–1687, 2016.
- [25] Xi Li, Liming Zhao, Lina Wei, Ming-Hsuan Yang, Fei Wu, Yueting Zhuang, Haibin Ling, and Jingdong Wang. Deepsaliency: Multi-task deep neural network model for salient object detection. *IEEE Trans. Image Processing*, 25(8):3919–3930, 2016.

- [26] Jingkuan Song, Heng Tao Shen, Jianfeng Wang, Zi Huang, Nicu Sebe, and Jingdong Wang. A distance-computation-free search scheme for binary code databases. *IEEE Trans. Multime*dia, 18(3):484–495, 2016.
- [27] Jinhui Tang, Xiangbo Shu, Zechao Li, Guo-Jun Qi, and Jingdong Wang. Generalized deep transfer networks for knowledge propagation in heterogeneous domains. ACM TOMCCAP, 12(4s):68:1–68:22, 2016.
- [28] Jianfeng Wang, Jingdong Wang, Jingkuan Song, Xin-Shun Xu, Heng Tao Shen, and Shipeng Li. Optimized Cartesian k-means. *IEEE Trans. Knowl. Data Eng.*, 27(1):180–192, 2015.
- [29] Lingxi Xie, Jingdong Wang, Bo Zhang, and Qi Tian. Fine-grained image search. IEEE Trans. Multimedia, 17(5):636–647, 2015.
- [30] Jingdong Wang, Naiyan Wang, You Jia, Jian Li, Gang Zeng, Hongbin Zha, and Xian-Sheng Hua. Trinary-projection trees for approximate nearest neighbor search. *IEEE Trans. Pattern* Anal. Mach. Intell., 36(2):388–403, 2014.
- [31] Jingdong Wang, Huaizu Jiang, Yangqing Jia, Xian-Sheng Hua, Changshui Zhang, and Long Quan. Regularized tree partitioning and its application to unsupervised image segmentation. *IEEE Trans. Image Processing*, 23(4):1909–1922, 2014.
- [32] Qinghua Huang, Bisheng Chen, Jingdong Wang, and Tao Mei. Personalized video recommendation through graph propagation. ACM TOMCCAP, 10(4):32:1–32:17, 2014.
- [33] Peng Wang, Gang Zeng, Rui Gan, Jingdong Wang, and Hongbin Zha. Structure-sensitive superpixels via geodesic distance. *International Journal of Computer Vision*, 103(1):1–21, 2013.
- [34] Houqiang Li, Yang Wang, Tao Mei, Jingdong Wang, and Shipeng Li. Interactive multimodal visual search on mobile device. *IEEE Trans. Multimedia*, 15(3):594–607, 2013.
- [35] Tianjia Shao, Weiwei Xu, Kun Zhou, Jingdong Wang, Dongping Li, and Baining Guo. An interactive approach to semantic modeling of indoor scenes with an RGBD camera. ACM Trans. Graph, 31(6):136:1–136:11, 2012.
- [36] Tie Liu, Zejian Yuan, Jian Sun, Jingdong Wang, Nanning Zheng, Xiaoou Tang, and Heung-Yeung Shum. Learning to detect a salient object. *IEEE Trans. Pattern Anal. Mach. Intell.*, 33(2):353–367, 2011.
- [37] Xinmei Tian, Linjun Yang, Jingdong Wang, Xiuqing Wu, and Xian-Sheng Hua. Bayesian visual reranking. *IEEE Trans. Multimedia*, 13(4):639–652, 2011.
- [38] Jingdong Wang, Fei Wang, Changshui Zhang, Helen C. Shen, and Long Quan. Linear neighborhood propagation and its applications. *IEEE Trans. Pattern Anal. Mach. Intell.*, 31(9):1600– 1615, 2009.
- [39] Tie Liu, Jingdong Wang, Jian Sun, Nanning Zheng, Xiaoou Tang, and Heung-Yeung Shum. Picture collage. *IEEE Trans. Multimedia*, 11(7):1225–1239, 2009.
- [40] Long Quan, Jingdong Wang, Ping Tan, and Lu Yuan. Image-based modeling by joint segmentation. International Journal of Computer Vision, 75(1):135–150, 2007.
- [41] Ping Tan, Gang Zeng, Jingdong Wang, Sing Bing Kang, and Long Quan. Image-based tree modeling. ACM Trans. Graph, 26(3):87, 2007.
- [42] Long Quan, Ping Tan, Gang Zeng, Lu Yuan, Jingdong Wang, and Sing Bing Kang. Imagebased plant modeling. ACM Trans. Graph, 25(3):599–604, 2006.

Referred journals

[1] Guotian Xie, Kuiyuan Yang, Ting Zhang, Jingdong Wang, and Jianhuang Lai. Balanced Decoupled Spatial Convolution for CNNs. *IEEE Trans. Neural Netw. Learning Syst.*, 2019.

- [2] Shengkang Yu, Xi Li, Xueyi Zhao, Zhongfei Mark Zhang, Fei Wu, Jingdong Wang, Yue Ting Zhuang, and Xuelong Li. A bilinear ranking SVM for knowledge based relation prediction and classification. *IEEE Trans. Big Data*, 2018.
- [3] Ruoyu Liu, Shikui Wei, Yao Zhao, Zhenfeng Zhu, and Jingdong Wang. Multi-View Cross-Media Hashing with Semantic Consistency. *IEEE MultiMedia*, 2018.
- [4] Baoguang Shi, Xiang Bai, Wenyu Liu, and Jingdong Wang. Face Alignment with Deep Regression. IEEE Trans. Neural Netw. Learning Syst., 29(1):183-194, 2018.
- [5] Lingxi Xie, Jingdong Wang, Bo Zhang, and Qi Tian. Incorporating visual adjectives for image classification. *Neurocomputing*, 182:48–55, 2016.
- [6] Min Tan, Baoyuan Wang, Zhaohui Wu, Jingdong Wang, and Gang Pan. Weakly supervised metric learning for traffic sign recognition in a lidar-equipped vehicle. *IEEE Trans. Intelligent Transportation Systems*, 17(5):1415–1427, 2016.
- [7] Congyan Lang, Jiashi Feng, Songhe Feng, Jingdong Wang, and Shuicheng Yan. Dual low-rank pursuit: Learning salient features for saliency detection. *IEEE Trans. Neural Netw. Learning* Syst., 27(6):1190–1200, 2016.
- [8] Shiyang Lu, Tao Mei, Jingdong Wang, Jian Zhang, Zhiyong Wang, and Shipeng Li. Exploratory product image search with circle-to-search interaction. *IEEE Trans. Circuits Syst. Video Techn.*, 25(7):1190–1202, 2015.
- [9] Weiwei Xu, Zhouxu Shi, Mingliang Xu, Kun Zhou, Jingdong Wang, Bin Zhou, Jinrong Wang, and Zhenming Yuan. Transductive 3d shape segmentation using sparse reconstruction. Comput. Graph. Forum, 33(5):107–115, 2014.
- [10] Jingdong Wang, Jiazhen Zhou, Hao Xu, Tao Mei, Xian-Sheng Hua, and Shipeng Li. Image tag refinement by regularized latent Dirichlet allocation. *Computer Vision and Image Understanding*, 124:61–70, 2014.
- [11] Shiyang Lu, Tao Mei, Jingdong Wang, Jian Zhang, Zhiyong Wang, and Shipeng Li. Browse-to-search: Interactive exploratory search with visual entities. ACM Trans. Inf. Syst., 32(4):18:1–18:27, 2014.
- [12] Jingdong Wang, Zhe Zhao, Jiazhen Zhou, Hao Wang, Bin Cui, and Guojun Qi. Recommending Flickr groups with social topic model. *Inf. Retr.*, 15(3-4):278–295, 2012.
- [13] Tianjia Shao, Weiwei Xu, KangKang Yin, Jingdong Wang, Kun Zhou, and Baining Guo. Discriminative sketch-based 3d model retrieval via robust shape matching. *Comput. Graph. Forum*, 30(7):2011–2020, 2011.
- [14] Jingdong Wang, Liyan Jia, and Xian-Sheng Hua. Interactive browsing via diversified visual summarization for image search results. *Multimedia Syst.*, 17(5):379–391, 2011.
- [15] Jingdong Wang, Yinghai Zhao, Xiuqing Wu, and Xian-Sheng Hua. A transductive multilabel learning approach for video concept detection. *Pattern Recognition*, 44(10-11):2274–2286, 2011.
- [16] Jingdong Wang and Xian-Sheng Hua. Interactive image search by color map. ACM TIST, 3(1):12:1–12:23, 2011.
- [17] Zheng-Jun Zha, Tao Mei, Jingdong Wang, Zengfu Wang, and Xian-Sheng Hua. Graphbased semi-supervised learning with multiple labels. J. Visual Communication and Image Representation, 20(2):97–103, 2009.
- [18] Fei Wang, Jingdong Wang, Changshui Zhang, and James T. Kwok. Face recognition using spectral features. *Pattern Recognition*, 40(10):2786–2797, 2007.
- [19] Jianguo Lee, Jingdong Wang, Changshui Zhang, and Zhaoqi Bian. Visual object recognition using probabilistic kernel subspace similarity. *Pattern Recognition*, 38(7):997–1008, 2005.

Top refereed conferences: CVPR (49), ICCV (31), ECCV (16), ACMMM (16), NeurIPS (6), ICLR (4), ICML (4), SIGIR (3), KDD (1), IJCAI (5), AAAI (3)

- Bo Fang, Wenhao Wu, Chang Liu, Yu Zhou, Yuxin Song, Weiping Wang, Xiangbo Shu, Xiangyang Ji, and Jingdong Wang. UATVR: Uncertainty-Adaptive Text-Video Retrieval. *ICCV* 2023.
- [2] Lizhao Liu, Zhuangwei Zhuang, Shangxin Huang, Xunlong Xiao, Tianhang Xiang, Cen Chen, Jingdong Wang, and Mingkui Tan. CPCM: Contextual Point Cloud Modeling for Weaklysupervised Point Cloud Semantic Segmentation. ICCV 2023.
- [3] Jiaxiang Tang, Hang Zhou, Xiaokang Chen, Tianshu Hu, Errui Ding, Jingdong Wang, and Gang Zeng. Delicate Textured Mesh Recovery from NeRF via Adaptive Surface Refinement. *ICCV 2023.*
- [4] Huan Liu, Qiang Chen, Zichang Tan, Jiang-Jiang Liu, Jian Wang, Xiangbo Su, Xiaolong Li, Kun Yao, Junyu Han, Errui Ding, Yao Zhao, and Jingdong Wang. Group Pose: A Simple Baseline for End-to-End Multi-person Pose Estimation. *ICCV 2023.*
- [5] Qiang Chen, Xiaokang Chen, Jian Wang, Shan Zhang, Kun Yao, Haocheng Feng, Junyu Han, Errui Ding, Gang Zeng, and Jingdong Wang. Group DETR: Fast DETR Training with Group-Wise One-to-Many Assignment. *ICCV 2023.*
- [6] Shan Zhang, Jinhao Du, Qiang Chen, Haifeng Le, Yanpeng Sun, Yao Ni, Jian Wang, Bin He, and Jingdong Wang. -Adaptive Decoupled Prototype for Few-Shot Object Detection. *ICCV 2023.*
- [7] Wenhao Wu, Yuxin Song, Zhun Sun, Jingdong Wang, Chang Xu, and Wanli Ouyang. What Can Simple Arithmetic Operations Do for Temporal Modeling? *ICCV 2023*.
- [8] Zhiyin Shao, Xinyu Zhang, Changxing Ding, Jian Wang, and Jingdong Wang Unified Pretraining with Pseudo Texts for Text-To-Image Person Re-identification. ICCV 2023.
- [9] Jiaming Li, Xiangru Lin, Wei Zhang, Xiao Tan, Yingying Li, Junyu Han, Errui Ding, Jingdong Wang, and Guanbin Li. Gradient-based Sampling for Class Imbalanced Semi-supervised Object Detection. *ICCV 2023*.
- [10] Jiazheng Xing, Mengmeng Wang, Yudi Ruan, Bofan Chen, Yaowei Guo, Boyu Mu, Guang Dai, Jingdong Wang, and Yong Liu. Boosting Few-shot Action Recognition with Graph-guided Hybrid Matching. *ICCV 2023.*
- [11] Sifan Long, Zhen Zhao, Junkun Yuan, Zichang Tan, Jiang-Jiang Liu, Shengsheng Wang, Luping Zhou, and Jingdong Wang. Task-Oriented Multi-Modal Mutual Leaning for Vision-Language Models. *ICCV 2023*.
- [12] Xiang Guo, Jiadai Sun, Yuchao Dai, Guanying Chen, Xiaoqing Ye, Xiao Tan, Errui Ding, Yumeng Zhang, and Jingdong Wang. Forward Flow for Novel View Synthesis of Dynamic Scenes. *ICCV 2023.*
- [13] Shuo Li, Yue He, Weiming Zhang, Wei Zhang, Xiao Tan, Junyu Han, Errui Ding, and Jingdong Wang. CFCG: Semi-Supervised Semantic Segmentation via Cross-Fusion and Contour Guidance Supervision. *ICCV 2023.*
- [14] Zhen Zhao, Lihe Yang, Sifan Long, Jimin Pi, Luping Zhou, and Jingdong Wang. Augmentation Matters: A Simple-Yet-Effective Approach to Semi-Supervised Semantic Segmentation. *CVPR* 2023.
- [15] Zhen Zhao, Sifan Long, Jimin Pi, Jingdong Wang, and Luping Zhou. Instance-Specific and Model-Adaptive Supervision for Semi-Supervised Semantic Segmentation. CVPR 2023.
- [16] Chang Liu, Weiming Zhang, Xiangru Lin, Wei Zhang, Xiao Tan, Junyu Han, Xiaomao Li, Errui Ding, and Jingdong Wang. Ambiguity-Resistant Semi-Supervised Learning for Dense Object Detection. CVPR 2023.

- [17] Wenhao Wu, Xiaohan Wang, Haipeng Luo, Jingdong Wang, Yi Yang, and Wanli Ouyang. Bidirectional Cross-Modal Knowledge Exploration for Video Recognition With Pre-Trained Vision-Language Models. CVPR 2023.
- [18] Jiazhi Guan, Zhanwang Zhang, Hang Zhou, Tianshu Hu, Kaisiyuan Wang, Dongliang He, Haocheng Feng, Jingtuo Liu, Errui Ding, Ziwei Liu, and Jingdong Wang. StyleSync: High-Fidelity Generalized and Personalized Lip Sync in Style-Based Generator. CVPR 2023.
- [19] Kaixin Xiong, Shi Gong, Xiaoqing Ye, Xiao Tan, Ji Wan, Errui Ding, Jingdong Wang, and Xiang Bai. CAPE: Camera View Position Embedding for Multi-View 3D Object Detection. *CVPR* 2023.
- [20] Zhongwei Qiu, Qiansheng Yang, Jian Wang, Haocheng Feng, Junyu Han, Errui Ding, Chang Xu, Dongmei Fu, and Jingdong Wang. PSVT: End-to-End Multi-Person 3D Pose and Shape Estimation With Progressive Video Transformers CVPR 2023.
- [21] Sifan Long, Zhen Zhao, Jimin Pi, Shengsheng Wang, and Jingdong Wang. Beyond Attentive Tokens: Incorporating Token Importance and Diversity for Efficient Vision Transformers. *CVPR* 2023.
- [22] Jiacheng Zhang, Xiangru Lin, Wei Zhang, Kuo Wang, Xiao Tan, Junyu Han, Errui Ding, Jingdong Wang, and Guanbin Li. Semi-DETR: Semi-Supervised Object Detection With Detection Transformers. CVPR 2023.
- [23] Wenhao Wu, Haipeng Luo, Bo Fang, Jingdong Wang, and Wanli Ouyang. Cap4Video: What Can Auxiliary Captions Do for Text-Video Retrieval? *CVPR 2023.*
- [24] Yuechen Yu, Yulin Li, Chengquan Zhang, Xiaoqiang Zhang, Zengyuan Guo, Xiameng Qin, Kun Yao, Junyu Han, Errui Ding, and Jingdong Wang. StrucTexTv2: Masked Visual-Textual Prediction for Document Image Pre-training. *ICLR 2023*.
- [25] Xiaohu Huang, Hao Zhou, Jian Wang, Haocheng Feng, Junyu Han, Errui Ding, Jingdong Wang, Xinggang Wang, Wenyu Liu, and Bin Feng. Graph Contrastive Learning for Skeleton-based Action Recognition. *ICLR 2023.*
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Tutorial and Seminars

Context Autoencoder for Scalable Self-Supervised	Keynote	SSLAD at ECCV 2022
Representation Pretraining		
Context Autoencoder for Scalable Self-Supervised	Keynote	NAS at CVPR 2022
Representation Pretraining		
Dense Prediction with Transformers: Semantic Seg-	Invited talk	Neural Architectures at ICCV 2021
mentation and High-Resolution Backbone		
Semantic Segmentation, Object Detection, and High-	Keynote	VisDrone at ICCV 2021
Resolution Backbone with Transformers		
High-resolution networks	Keynote	BigMM 2020
High-resolution networks	Keynote	CVWC at ICCV 2019
Neural architecture construction and search	tutorial	ICME 2019
High-resolution networks	Keynote	CEFRL at CVPR 2019
Interleaved group convolutions for efficient deep neural	Keynote	ACM ICIMCS 2018
networks		

Person re-identification: datasets and representations Person re-identification: recent advances and chal- lenges	Keynote Tutorial	PCM 2018 FG 2018
CNN architecture design: from deeper to wider	Keynote	ACM ICIMCS 2017
Representative Product Transfer		
Self-supervised pretraining (CAE v2)		Shipped to Baidu AI cloud, 2023
Group DETR with pretraining		Shipped to Baidu AI cloud, 2023
Self-supervised pretraining (Context autoencoder, CAE v1)		Shipped to Baidu AI cloud, 2022
MaskOCR		Shipped to Baidu OCR prod- ucts, 2022
HRNet		Shipped to Form Recognizer, 2021
SPTAG (spatial partition tree and graph, improved NGS)		Shipped to Bing platform, 2018
Fast human detection		Shipped to XiaoIce, 2017
How-Old Fashion		Shipped to XiaoIce, 2016
How-Old 2.0		Shipped to XiaoIce, 2015
Celebrity for chat		Shipped to XiaoIce, 2015, 2017
Similar image search for image chat		Shipped to XiaoIce, 2015
Similar video search for video chat		Shipped to XiaoIce, 2015
Similarity search		Shipped to Ads Selection, 2015
XiaoIce book recognition		Shipped to Weibo in XiaoIce, 2014
Nearest neighbor search		Shipped to Microsoft Bing image search in 2014.
Image match		Shipped to Microsoft Bing image search in 2014.
Visual attribute enhanced image relevance ranker		Shipped to Microsoft Bing image search in 2012.
Visual attribute enhanced image relevance ranker		Cognitive service. 2015
Dominant color filter		Shipped to Microsoft Bing image search, 2012
Image search by color map		Shipped to Microsoft Bing image search, 2010

Interns and Students ever Working With Me

Huan Liu	Beijing Jiaotong University (23)
Jiaxiang Tang	Peking University (23)
Jiyang Qi	Huazhong University of Science and Technology (22)
Jie Zhu	Peking University (22)
Mingyu Ding	Hong Kong University (22)
Yan Liu	Zhejiang University (21)
Xiaosong Zhao	UCAS (21)
Yifan Zhang	South China of Technology (21)
Juhong Min	Pohang Univ. of Science and Technology (20-21)
Zejia Fan	Peking University (20-21)
Qi Han	Nankai University (20 - 21)
Zhuoyi Huang	Tongji University (20)
Xiaokang Chen	Peking University (20-21)

Changqian Yu	HUST (20)
Shaobo Min	USTC (20)
Baifeng Shi	Peking University
Chaoqun Wang	USTC (19)
Hung-Jen Chen	National Chiao Tung University (19)
Jingyi Xie	USTC (19)
Zigang Geng	USTC (19)
Boqi Chen	Boston University (19)
Tianheng Cheng	Huazhong University of Science & Technology
	(18)
Chaorui Deng	South China University of Technology
Manli Shu	USTC (18)
Borui Jiang	Peking University (18)
Jingchun Cheng	Tsinghua University (18)
Weijian Xu	UCSD (18)
Yifan Liu	Beihang University (18)
Yao Qin	UCSD (18)
Ke Sun	USTC (17 - 18)
Shichen Liu	Tsinghua University (17 - 18)
Depu Meng	USTC (17 - 18)
Mingji Li	USTC (17 - 18)
Junran Peng	IA, CAS (17)
Chong Shang	Tsinghua University (17)
Guotian Xie	Sun Yat-Sen University (17)
Peng Tang	Huazhong University of Science & Technology
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Song Bai	Huazhong University of Science & Technology
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Gangming Zhao	IA, CAS (17)
Kexin Zhang	Peking University (17)
Yumin Suh	Seoul National University, Korea (16 - 17)
Yajie Xing	Peking University (16 - 17)
Shuang Li	Tsinghua University (16)
Ryosuke Furuta	The University of Tokyo, Japan (16)
Yanzhao Wu	USTC (16)
Jun He	HeFei University of Technology (16)
Liheng Zhang	University of Central Florida (16)
Liming Zhao	Zhejiang University (16)
Zilong Huang	Huazhong University of Science & Technology
8	(16)
Xun Huang	Beihang University (16)
Xiaojuan Wang	Sun Yat-Sen University (15)
Zhen Wei	Shanghai Jiao Tong University (15)
Wei Tang	IA, CAS (15)
Qiqi hou	Xi'an Jiaotong University (15)
Ning Xu	UIUC (15)
Liang Zheng	Tsinghua University (14 - 15)
Jiaming Song	Tsinghua University (14)
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Tianxiao Shen	Tsinghua University (14)	
Jianqiu Ji	Tsinghua University (14)	
Fan Liu	Nanjing University of Science & Technology (14)	
Baoguang Shi	Huazhong University of Science & Technology	
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Dapeng Chen	Xi'an Jiaotong University (14)	
Falong Shen	Peking University (13 - 14)	
Lingxi Xie	Tsinghua University (13)	
Ting Zhang	USTC (13)	
Xianjie Chen	University of California, Los Angeles (13)	
Chongxuan Li	Tsinghua University (13)	
Chao Du	Tsinghua University (13 - 14)	
Jingkuan Song	The University of Queensland, Australia (12 - 13)	
Chuang Gan	Beihang University (12 - 13)	
Zhansheng Jiang	Shanghai Jiao Tong University (12 - 13)	
Yupeng Gu	USTC (12 - 13)	
Shiyu Chang	UIUC (12)	
Jianfeng Wang	USTC (12 - 13)	
Weiwen Tu	Sun Yat-Sen University (11)	
Tiansheng Yao	Zhejiang University (11)	
Dongqing Zhang	Shanghai Jiao Tong University (11)	
Peng Wang	Peking University (11 - 13)	
Xianghang Liu	University of New South Wales, Australia (11)	
Jiazhen Zhou	Peking University (11)	Columbia University
Junyang Lu	Peking University (11)	Columbia University
Xiang Ren	Zhejiang University (11)	UIUC
Nobuyuki Morioka	University of New South Wales, Australia (11)	Google
Naiyan Wang	Zhejiang University (10 - 11)	HKUST
Huaizu Jiang	Xi'an Jiaotong University (10 - 11)	
Shijie Xu	Beihang University (10)	
Jing Wang	Peking University (10 - 13)	
Bin Cheng	National University of Singapore (10)	
Biao Wang	Tsinghua University (10)	
Wenhao Lu	Tsinghua University (10)	
Zhe Zhao	Peking University (09 - 10)	University of Michigan
Xiangang Chen	Nanyang Technological University (09)	e in versity of through
Jue Xie	Monash University, Melbourne, Australia (09)	
Hao Xu	USTC (08 - 09)	
You Jia	Peking University (09)	CMU, Facebook
Liyan Jia	Tsinghua University (09)	Cornell University
Heng Zhang	Peking University (08 - 09)	Content Oniversity
Yang Hu	USTC (08)	
Darui Li	USTC (08)	
Yinghai Zhao	USTC (08)	
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Xuan Huang	USTC (07 - 08)	
Jianxiong Xiao	HKUST	IDM T I Watary Doorsh I I
Fei Wang Vangging Jia	Tsinghua University (05 - 06)	IBM T. J. Watson Research Lab
Yangqing Jia	Tsinghua University (07)	University of California, Berke-
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Beijing, December 5, 2023