

Shai Avidan · Gabriel Brostow ·  
Moustapha Cissé · Giovanni Maria Farinella ·  
Tal Hassner (Eds.)

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# Computer Vision – ECCV 2022

17th European Conference  
Tel Aviv, Israel, October 23–27, 2022  
Proceedings, Part XXIII

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## Foreword

Organizing the European Conference on Computer Vision (ECCV 2022) in Tel-Aviv during a global pandemic was no easy feat. The uncertainty level was extremely high, and decisions had to be postponed to the last minute. Still, we managed to plan things just in time for ECCV 2022 to be held in person. Participation in physical events is crucial to stimulating collaborations and nurturing the culture of the Computer Vision community.

There were many people who worked hard to ensure attendees enjoyed the best science at the 16th edition of ECCV. We are grateful to the Program Chairs Gabriel Brostow and Tal Hassner, who went above and beyond to ensure the ECCV reviewing process ran smoothly. The scientific program includes dozens of workshops and tutorials in addition to the main conference and we would like to thank Leonid Karlinsky and Tomer Michaeli for their hard work. Finally, special thanks to the web chairs Lorenzo Baraldi and Kosta Derpanis, who put in extra hours to transfer information fast and efficiently to the ECCV community.

We would like to express gratitude to our generous sponsors and the Industry Chairs, Dimosthenis Karatzas and Chen Sagiv, who oversaw industry relations and proposed new ways for academia-industry collaboration and technology transfer. It's great to see so much industrial interest in what we're doing!

Authors' draft versions of the papers appeared online with open access on both the Computer Vision Foundation (CVF) and the European Computer Vision Association (ECVA) websites as with previous ECCVs. Springer, the publisher of the proceedings, has arranged for archival publication. The final version of the papers is hosted by SpringerLink, with active references and supplementary materials. It benefits all potential readers that we offer both a free and citeable version for all researchers, as well as an authoritative, citeable version for SpringerLink readers. Our thanks go to Ronan Nugent from Springer, who helped us negotiate this agreement. Last but not least, we wish to thank Eric Mortensen, our publication chair, whose expertise made the process smooth.

October 2022

Rita Cucchiara  
 Jiří Matas  
 Amnon Shashua  
 Lihi Zelnik-Manor

# Preface

Welcome to the proceedings of the European Conference on Computer Vision (ECCV 2022). This was a hybrid edition of ECCV as we made our way out of the COVID-19 pandemic. The conference received 5804 valid paper submissions, compared to 5150 submissions to ECCV 2020 (a 12.7% increase) and 2439 in ECCV 2018. 1645 submissions were accepted for publication (28%) and, of those, 157 (2.7% overall) as orals.

846 of the submissions were desk-rejected for various reasons. Many of them because they revealed author identity, thus violating the double-blind policy. This violation came in many forms: some had author names with the title, others added acknowledgments to specific grants, yet others had links to their github account where their name was visible. Tampering with the LaTeX template was another reason for automatic desk rejection.

ECCV 2022 used the traditional CMT system to manage the entire double-blind reviewing process. Authors did not know the names of the reviewers and vice versa. Each paper received at least 3 reviews (except 6 papers that received only 2 reviews), totalling more than 15,000 reviews.

Handling the review process at this scale was a significant challenge. To ensure that each submission received as fair and high-quality reviews as possible, we recruited more than 4719 reviewers (in the end, 4719 reviewers did at least one review). Similarly we recruited more than 276 area chairs (eventually, only 276 area chairs handled a batch of papers). The area chairs were selected based on their technical expertise and reputation, largely among people who served as area chairs in previous top computer vision and machine learning conferences (ECCV, ICCV, CVPR, NeurIPS, etc.).

Reviewers were similarly invited from previous conferences, and also from the pool of authors. We also encouraged experienced area chairs to suggest additional chairs and reviewers in the initial phase of recruiting. The median reviewer load was five papers per reviewer, while the average load was about four papers, because of the emergency reviewers. The area chair load was 35 papers, on average.

Conflicts of interest between authors, area chairs, and reviewers were handled largely automatically by the CMT platform, with some manual help from the Program Chairs. Reviewers were allowed to describe themselves as senior reviewer (load of 8 papers to review) or junior reviewers (load of 4 papers). Papers were matched to area chairs based on a subject-area affinity score computed in CMT and an affinity score computed by the Toronto Paper Matching System (TPMS). TPMS is based on the paper's full text. An area chair handling each submission would bid for preferred expert reviewers, and we balanced load and prevented conflicts.

The assignment of submissions to area chairs was relatively smooth, as was the assignment of submissions to reviewers. A small percentage of reviewers were not happy with their assignments in terms of subjects and self-reported expertise. This is an area for improvement, although it's interesting that many of these cases were reviewers hand-picked by AC's. We made a later round of reviewer recruiting, targeted at the list of authors of papers submitted to the conference, and had an excellent response which

helped provide enough emergency reviewers. In the end, all but six papers received at least 3 reviews.

The challenges of the reviewing process are in line with past experiences at ECCV 2020. As the community grows, and the number of submissions increases, it becomes ever more challenging to recruit enough reviewers and ensure a high enough quality of reviews. Enlisting authors by default as reviewers might be one step to address this challenge.

Authors were given a week to rebut the initial reviews, and address reviewers' concerns. Each rebuttal was limited to a single pdf page with a fixed template.

The Area Chairs then led discussions with the reviewers on the merits of each submission. The goal was to reach consensus, but, ultimately, it was up to the Area Chair to make a decision. The decision was then discussed with a buddy Area Chair to make sure decisions were fair and informative. The entire process was conducted virtually with no in-person meetings taking place.

The Program Chairs were informed in cases where the Area Chairs overturned a decisive consensus reached by the reviewers, and pushed for the meta-reviews to contain details that explained the reasoning for such decisions. Obviously these were the most contentious cases, where reviewer inexperience was the most common reported factor.

Once the list of accepted papers was finalized and released, we went through the laborious process of plagiarism (including self-plagiarism) detection. A total of 4 accepted papers were rejected because of that.

Finally, we would like to thank our Technical Program Chair, Pavel Lifshits, who did tremendous work behind the scenes, and we thank the tireless CMT team.

October 2022

Gabriel Brostow  
Giovanni Maria Farinella  
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Gemma Roig	Shengtian Sang	Lei Shang
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Edward Rosten	Vishwanath Saragadam	Jie Shao
Karsten Roth	István Sárándi	Mingwen Shao
Anirban Roy	Saquib Sarfraz	Aashish Sharma
Debaditya Roy	Mert Bulent Sariyildiz	Gaurav Sharma
Shuvendu Roy	Anindya Sarkar	Vivek Sharma
Ahana Roy Choudhury	Pritam Sarkar	Abhishek Sharma
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Chris Russell	Artem Savkin	Jingjing Shen
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Aniruddha Saha	Lorenzo Seidenari	Wang Shen
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Pritish Sahu	Fadime Sener	Yunhang Shen
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Yuming Shen	Eli Shlizerman	Sanghyun Son
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Zhiqiang Shen	Xiao Shu	Chen Song
Lu Sheng	Xiangbo Shu	Chunfeng Song
Yichen Sheng	Xiujun Shu	Dan Song
Shivanand Venkanna	Yang Shu	Dongjin Song
Sheshappanavar	Tianmin Shu	Hwanjun Song
Shelly Sheynin	Jun Shu	Guoxian Song
Baifeng Shi	Zhixin Shu	Jiaming Song
Ruoxi Shi	Bing Shuai	Jie Song
Botian Shi	Maria Shugrina	Liangchen Song
Hailin Shi	Ivan Shugurov	Ran Song
Jia Shi	Satya Narayan Shukla	Luchuan Song
Jing Shi	Pranjay Shyam	Xibin Song
Shaoshuai Shi	Jianlou Si	Li Song
Baoguang Shi	Yawar Siddiqui	Fenglong Song
Boxin Shi	Alberto Signoroni	Guoli Song
Hengcan Shi	Pedro Silva	Guanglu Song
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Xiaodan Shi	Oriane Siméoni	Lin Song
Yongjie Shi	Martin Simon	Xinhang Song
Zhensheng Shi	Andrea Simonelli	Yang Song
Yinghuan Shi	Abhishek Singh	Yibing Song
Weiqi Shi	Ashish Singh	Rajiv Soundararajan
Wu Shi	Dinesh Singh	Hossein Souri
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Xiaoshuang Shi	Krishna Kumar Singh	Riccardo Spezialetti
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Zhenmei Shi	Rajat Vikram Singh	Deepak Sridhar
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Yichang Shih	Vasu Singla	Vinkle Kumar Srivastav
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Bing Su	Chunyi Sun	Jinhui Tang
Haisheng Su	Chong Sun	Kaihua Tang
Jinming Su	Weiwei Sun	Luming Tang
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Yukun Su	Xiuyu Sun	Sheyang Tang
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Zhaoqi Su	Zhaodong Sun	Shixiang Tang
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Haomiao Sun	Keita Takahashi	Ugo Tanielian
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Hanqing Sun	Gary Tam	Jiale Tao
Hao Sun	Masato Tamura	Junli Tao
Lichao Sun	Feitong Tan	Renshuai Tao
Jiachen Sun	Fuwen Tan	An Tao
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Shiqi Tian	Zhengzhong Tu	Venkataramanan
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Meng Tian	Sergey Tulyakov	Luisa Verdoliva
Tai-Peng Tian	Cigdem Turan	Manisha Verma
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Yuxin Tian	Mostofa Rafid Uddin	Ruben Villegas
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Praveen Tirupattur	Kohei Uehara	Vibhav Vineet
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Aysim Toker	Anwaar Ulhaq	Tomas Vojir
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Hung Tran	Diego Valsesia	Jin Wan
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Xiaoyue Wan	Huan Wang	Shaofei Wang
Fang Wan	Hua Wang	Shijie Wang
Guowei Wan	Hui-Po Wang	Shiqi Wang
Renjie Wan	Hengli Wang	Zhibo Wang
Zhiqiang Wan	Hanyu Wang	Song Wang
Ziyu Wan	Hongxing Wang	Xinjiang Wang
Bastian Wandt	Jingwen Wang	Tai Wang
Dongdong Wang	Jialiang Wang	Tao Wang
Limin Wang	Jian Wang	Teng Wang
Haiyang Wang	Jianyi Wang	Xiang Wang
Xiaobing Wang	Jiashun Wang	Tianren Wang
Angtian Wang	Jiahao Wang	Tiantian Wang
Angelina Wang	Tsun-Hsuan Wang	Tianyi Wang
Bing Wang	Xiaoqian Wang	Fengjiao Wang
Bo Wang	Jinqiao Wang	Wei Wang
Boyu Wang	Jun Wang	Miaohui Wang
Binghui Wang	Jianzong Wang	Suchen Wang
Chen Wang	Kaihong Wang	Siyue Wang
Chien-Yi Wang	Ke Wang	Yaoming Wang
Congli Wang	Lei Wang	Xiao Wang
Qi Wang	Lingjing Wang	Ze Wang
Chengrui Wang	Linnan Wang	Biao Wang
Rui Wang	Lin Wang	Chaofei Wang
Yiqun Wang	Liansheng Wang	Dong Wang
Cong Wang	Mengjiao Wang	Gu Wang
Wenjing Wang	Manning Wang	Guangrun Wang
Dongkai Wang	Nannan Wang	Guangming Wang
Di Wang	Peihao Wang	Guo-Hua Wang
Xiaogang Wang	Jiayun Wang	Haoqing Wang
Kai Wang	Pu Wang	Hesheng Wang
Zhizhong Wang	Qiang Wang	Huafeng Wang
Fangjinhua Wang	Qiufeng Wang	Jinghua Wang
Feng Wang	Qilong Wang	Jingdong Wang
Hang Wang	Qiangchang Wang	Jingjing Wang
Gaoang Wang	Qin Wang	Jingya Wang
Guoqing Wang	Qing Wang	Jingkang Wang
Guangcong Wang	Ruocheng Wang	Jiakai Wang
Guangzhi Wang	Ruibin Wang	Junke Wang
Hanqing Wang	Ruisheng Wang	Kuo Wang
Hao Wang	Ruizhe Wang	Lichen Wang
Haohan Wang	Runqi Wang	Lizhi Wang
Haoran Wang	Runzhong Wang	Longguang Wang
Hong Wang	Wenxuan Wang	Mang Wang
Haotao Wang	Sen Wang	Mei Wang

Min Wang	Jinpeng Wang	Zhenzhi Wang
Peng-Shuai Wang	Jiaqi Wang	Zhijie Wang
Run Wang	Liyuan Wang	Zhiyong Wang
Shaoru Wang	Lizhen Wang	Zhongling Wang
Shuhui Wang	Ning Wang	Zhuowei Wang
Tan Wang	Wenqian Wang	Zian Wang
Tiancai Wang	Sheng-Yu Wang	Zifu Wang
Tianqi Wang	Weimin Wang	Zihao Wang
Wenhai Wang	Xiaohan Wang	Zirui Wang
Wenzhe Wang	Yifan Wang	Ziyan Wang
Xiaobo Wang	Yi Wang	Wenxiao Wang
Xiudong Wang	Yongtao Wang	Zhen Wang
Xu Wang	Yizhou Wang	Zhepeng Wang
Yajie Wang	Zhuo Wang	Zi Wang
Yan Wang	Zhe Wang	Zihao W. Wang
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Yizhi Wang	Xinggang Wang	Daniel Watson
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Yu Wang	Xiaosong Wang	Dongyoon Wee
Yujie Wang	Xiaoyang Wang	Dongming Wei
Yunhe Wang	Lijun Wang	Tianyi Wei
Yuxi Wang	Xinlong Wang	Jia Wei
Yaowei Wang	Xuan Wang	Dong Wei
Yiwei Wang	Xue Wang	Fangyun Wei
Ze Zheng Wang	Yangang Wang	Longhui Wei
Hongzhi Wang	Yaohui Wang	Mingqiang Wei
Zhiqiang Wang	Yu-Chiang Frank Wang	Xinyue Wei
Ziteng Wang	Yida Wang	Chen Wei
Ziwei Wang	Yilin Wang	Donglai Wei
Zheng Wang	Yi Ru Wang	Pengxu Wei
Zhenyu Wang	Yali Wang	Xing Wei
Binglu Wang	Yinglong Wang	Xiu-Shen Wei
Zhongdao Wang	Yufu Wang	Wenqi Wei
Ce Wang	Yujiang Wang	Guoqiang Wei
Weining Wang	Yuwang Wang	Wei Wei
Weiyao Wang	Yuting Wang	XingKui Wei
Wenbin Wang	Yang Wang	Xian Wei
Wenguan Wang	Yu-Xiong Wang	Xingxing Wei
Guangting Wang	Yixu Wang	Yake Wei
Haolin Wang	Ziqi Wang	Yuxiang Wei
Haiyan Wang	Zhicheng Wang	Yi Wei
Huiyu Wang	Zeyu Wang	Luca Weihs
Naiyan Wang	Zhaowen Wang	Michael Weinmann
Jingbo Wang	Zhenyi Wang	Martin Weinmann

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Chuan Wen	Jing Wu	Yong Wu
Jie Wen	Jinjian Wu	Yi Wu
Sijia Wen	Jianlong Wu	Ying Nian Wu
Song Wen	Xian Wu	Zhenyao Wu
Chao Wen	Lifang Wu	Zhonghua Wu
Xiang Wen	Lifan Wu	Zongze Wu
Zeyi Wen	Minye Wu	Zuxuan Wu
Xin Wen	Qianyi Wu	Stefanie Wuhrer
Yilin Wen	Rongliang Wu	Teng Xi
Yijia Weng	Rui Wu	Jianing Xi
Shuchen Weng	Shiqian Wu	Fei Xia
Junwu Weng	Shuzhe Wu	Haifeng Xia
Wenming Weng	Shangzhe Wu	Menghan Xia
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Yongkang Wong	Wenhao Wu	Tao Xiang
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Chongruo Wu	Wei Wu	Jimin Xiao
Cho-Ying Wu	Peng Wu	Jun Xiao
Chunpeng Wu	Xiaohe Wu	Taihong Xiao
Chenyan Wu	Xindi Wu	Anqi Xiao
Ziyi Wu	Xinxing Wu	Junfei Xiao
Fuxiang Wu	Xinyi Wu	Jing Xiao
Gang Wu	Xingjiao Wu	Liang Xiao
Haiping Wu	Xiongwei Wu	Yang Xiao
Huisi Wu	Yangzheng Wu	Yuting Xiao
Jane Wu	Yanzhao Wu	Yijun Xiao

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Zeyu Xiao	Jingyi Xu	Yan Xu
Zhisheng Xiao	Jiarui Xu	Yiran Xu
Zihao Xiao	Yinghao Xu	Yifan Xu
Binhui Xie	Kele Xu	Yufei Xu
Christopher Xie	Ke Xu	Yong Xu
Haozhe Xie	Li Xu	Zichuan Xu
Jin Xie	Linchuan Xu	Zenglin Xu
Guo-Sen Xie	Linning Xu	Zexiang Xu
Hongtao Xie	Mengde Xu	Zhan Xu
Ming-Kun Xie	Mengmeng Frost Xu	Zheng Xu
Tingting Xie	Min Xu	Zhiwei Xu
Chaohao Xie	Mingye Xu	Ziyue Xu
Weicheng Xie	Jun Xu	Shiyu Xuan
Xudong Xie	Ning Xu	Hanyu Xuan
Jiyang Xie	Peng Xu	Fei Xue
Xiaohua Xie	Runsheng Xu	Jianru Xue
Yuan Xie	Sheng Xu	Mingfu Xue
Zhenyu Xie	Wenqiang Xu	Qinghan Xue
Ning Xie	Xiaogang Xu	Tianfan Xue
Xianghui Xie	Renzhe Xu	Chao Xue
Xiufeng Xie	Kaidi Xu	Chuhui Xue
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Yutong Xie	Chi Xu	Zhou Xue
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Zhen Xing	Feng Xu	Abhay Yadav
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Jinhui Xiong	Haofei Xu	Kota Yamaguchi
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Chang Xu	Yixing Xu	Xinchen Yan
Chenliang Xu	Yuting Xu	Yaping Yan
Chengming Xu	Yanyu Xu	Bin Yan
Chenshu Xu	Zhenbo Xu	Qingan Yan
Xiang Xu	Zhiliang Xu	Shen Yan
Huijuan Xu	Zhiyuan Xu	Shipeng Yan
Zhe Xu	Xiaohao Xu	Xu Yan

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Yichao Yan	Muli Yang	Xue Yang
Zhaoyi Yan	Le Yang	Yubin Yang
Zike Yan	Qiushi Yang	Ze Yang
Zhiqiang Yan	Ren Yang	Ziyi Yang
Hongliang Yan	Ruihan Yang	Yi Yang
Zizheng Yan	Shuang Yang	Linjie Yang
Jiewen Yang	Siyuan Yang	Yuzhe Yang
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Shan Yang	Shiqi Yang	Zhenpei Yang
Anqi Yang	Taojiannan Yang	Zhaohui Yang
Antoine Yang	Tianyu Yang	Zhengyuan Yang
Bo Yang	Lei Yang	Zhibo Yang
Baoyao Yang	Wanzhao Yang	Zongxin Yang
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Dong Yang	Xiaofeng Yang	Taiping Yao
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Fan Yang	Xin Yang	Cong Yao
Fengyu Yang	Xuan Yang	Qingsong Yao
Fengting Yang	Xu Yang	Quanming Yao
Fei Yang	Xingyi Yang	Xu Yao
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Heng Yang	Jing Yang	Yao Yao
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Jingkang Yang	Kewei Yang	Fei Ye
Jinyu Yang	Linlin Yang	Hanrong Ye
Cheng-Fu Yang	Lijin Yang	Jingwen Ye
Ji Yang	Longrong Yang	Jinwei Ye
Jianyu Yang	Meng Yang	Jiarong Ye
Kailun Yang	MingKun Yang	Mang Ye
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Xuwang Yin	Qi Yu	Haixiao Yue
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Yu Yin	Rui Yu	Sangdoo Yun
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Yu Zeng	Jiaming Zhang	Xiaolin Zhang
Wei Zhai	Jichao Zhang	Xingchen Zhang
Yuanhao Zhai	Jie Zhang	Xingxuan Zhang
Fangneng Zhan	Jingfeng Zhang	Xiuming Zhang
Kun Zhan	Jingyi Zhang	Xiaoshuai Zhang
Xiong Zhang	Jinnian Zhang	Xuanmeng Zhang
Jingdong Zhang	David Junhao Zhang	Xuanyang Zhang
Jiangning Zhang	Junjie Zhang	Xucong Zhang
Zhilu Zhang	Junzhe Zhang	Xingxing Zhang
Gengwei Zhang	Jiawan Zhang	Xikun Zhang
Dongsu Zhang	Jingyang Zhang	Xiaohan Zhang
Hui Zhang	Kai Zhang	Yahui Zhang
Binjie Zhang	Lei Zhang	Yunhua Zhang
Bo Zhang	Lihua Zhang	Yan Zhang
Tianhao Zhang	Lu Zhang	Yanghao Zhang
Cecilia Zhang	Miao Zhang	Yifei Zhang
Jing Zhang	Minjia Zhang	Yifan Zhang
Chaoning Zhang	Mingjin Zhang	Yi-Fan Zhang
Chenxu Zhang	Qi Zhang	Yihao Zhang
Chi Zhang	Qian Zhang	Yingliang Zhang
Chris Zhang	Qilong Zhang	Youshan Zhang
Yabin Zhang	Qiming Zhang	Yulun Zhang
Zhao Zhang	Qiang Zhang	Yushu Zhang
Rufeng Zhang	Richard Zhang	Yixiao Zhang
Chaoyi Zhang	Ruimao Zhang	Yide Zhang
Zheng Zhang	Ruisi Zhang	Zhongwen Zhang
Da Zhang	Ruixin Zhang	Bowen Zhang
Yi Zhang	Runze Zhang	Chen-Lin Zhang
Edward Zhang	Qilin Zhang	Zehua Zhang
Xin Zhang	Shan Zhang	Zekun Zhang
Feifei Zhang	Shanshan Zhang	Zeyu Zhang
Feilong Zhang	Xi Sheryl Zhang	Xiaowei Zhang
Yuqi Zhang	Song-Hai Zhang	Yifeng Zhang
GuiXuan Zhang	Chongyang Zhang	Cheng Zhang
Hanlin Zhang	Kaihao Zhang	Hongguang Zhang
Hanwang Zhang	Songyang Zhang	Yuexi Zhang
Hanzhen Zhang	Shu Zhang	Fa Zhang
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