

VisDrone-DET2019: The Vision Meets Drone Object Detection in Image Challenge Results

Dawei Du¹, Pengfei Zhu², Longyin Wen³, Xiao Bian⁴, Haibin Ling⁵, Qinghua Hu¹,
Tao Peng², Jiayu Zheng², Xinyao Wang³, Yue Zhang³, Liefeng Bo³, Hailin Shi⁶,
Rui Zhu⁶, Aashish Kumar²², Aijin Li³⁰, Almaz Zinollayev³², Anuar Askergaliyev³²,
Arne Schumann³³, Binjie Mao²⁰, Byeongwon Lee¹⁵, Chang Liu²³, Changrui Chen⁸,
Chunhong Pan²⁰, Chunlei Huo²⁰, Da Yu²⁵, Dechun Cong²⁴, Dening Zeng³⁰,
Dheeraj Reddy Pailla¹³, Di Li³⁰, Dong Wang²³, Donghyeon Cho⁹, Dongyu Zhang³¹,
Furui Bai²⁸, George Jose²², Guangyu Gao¹⁸, Guizhong Liu¹⁴, Haitao Xiong¹², Hao Qi¹⁴,
Haoran Wang³⁰, Heqian Qiu⁷, Hongliang Li⁷, Huchuan Lu²³, Ildoo Kim²⁹, Jaekyum Kim¹⁶,
Jane Shen²⁸, Jihoon Lee²⁹, Jing Ge¹⁸, Jingjing Xu²⁴, Jingkai Zhou¹², Jonas Meier³³,
Jun Won Choi¹⁶, Junhao Hu¹¹, Junyi Zhang³¹, Junying Huang³¹, Kaiqi Huang²⁰, Keyang Wang¹⁷,
Lars Sommer³³, Lei Jin¹¹, Lei Zhang¹⁷, Lianghua Huang²⁰, Lin Sun¹⁹, Lucas Steinmann³³,
Meixia Jia³⁰, Nuo Xu²⁰, Pengyi Zhang¹⁸, Qiang Chen²⁰, Qingxuan Lv⁸, Qiong Liu¹²,
Qishang Cheng⁷, Sai Saketh Chennamsetty¹³, Shuhao Chen²³, Shuo Wei⁸, Srinivas S S Kruthiventi²²,
Sungeun Hong⁹, Sungil Kang⁹, Tong Wu¹⁸, Tuo Feng³⁰, Varghese Alex Kollerathu¹³, Wanqi Li¹⁴,
Wei Dai²¹, Weida Qin¹², Weiyang Wang²¹, Xiaorui Wang⁸, Xiaoyu Chen⁷, Xin Chen²³,
Xin Sun⁸, Xin Zhang²⁰, Xin Zhao²⁰, Xindi Zhang²⁶, Xinyu Zhang²³, Xuankun Chen³¹,
Xudong Wei¹⁴, Xuzhang Zhang²⁷, Yanchao Li²⁸, Yifu Chen¹⁰, Yu Heng Toh²⁸, Yu Zhang⁸,
Yu Zhu²⁰, Yunxin Zhong¹⁸, Zexin Wang³⁰, Zhikang Wang²⁸, Zichen Song⁷, Ziming Liu¹⁸

¹University at Albany, SUNY, Albany, NY, USA

²Tianjin University, Tianjin, China

³JD Digits, Mountain View, CA, USA

⁴GE Global Research, Niskayuna, NY, USA

⁵Stony Brook University, New York, NY, USA

⁶JD AI research, Beijing, USA

⁷University of Electronic Science and Technology of China, Chengdu, China

⁸Ocean University of China, Qingdao, China

⁹SK T-Brain, Seoul, South Korea

¹⁰Harbin Institute of Technology, Shenzhen, China

¹¹ShanghaiTech University, Shanghai, China

¹²South China University of Technology, Guangzhou, China

¹³Siemens Technology and Services Private Limited, Bengaluru, India

¹⁴Xi'an Jiaotong University, Xi'an, China

¹⁵SK Telecom, Seongnam-si, South Korea

¹⁶Hanyang University, Seoul, South Korea

¹⁷Chongqing University, Chongqing, China

¹⁸Beijing Institute of Technology, Beijing, China

¹⁹Samsung Inc., San Jose, CA, USA

²⁰Institute of Automation, Chinese Academy of Sciences, Beijing, China

²¹Snowcloud.ai, Beijing, China

²²Harman-Samsung, Bangalore, India

²³Dalian University of Technology, Dalian, China

²⁴Nanjing University of Posts and Telecommunications, Nanjing, China

²⁵Harbin Institute of Technology, Harbin, China

²⁶Queen Mary University of London, London, UK

²⁷Huazhong University of Science and Technology, Wuhan, China

²⁸Pensees Singapore Institute, Singapore

²⁹Kakao Brain, Seongnam, South Korea

³⁰Xidian University, Xi'an, China

³¹SUN YAT-SEN University, Guangzhou, China

³²BTS Digital, Astana, Kazakhstan

³³Fraunhofer IOSB, Karlsruhe, Germany

