Keyu Li

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Education

Xidian University, Shaanxi, China · Sep. 2020 – June. 2023

Master in Electronic and Information Engineering, *supervised by Prof. Nannan Wang.*

Xidian University, Shaanxi, China · Sep. 2016 – June. 2020

B.S. in Communication Engineering.

Research Interest

Autonomous Driving Perception & 3D Object Detection and Tracking
Binary Neural Networks & Single Image Super-Resolution

Experience

Shanghai AI Laboratory, Shanghai, China · June. 2022 - Feb. 2023

Research Intern, *supervised by Li Chen and Dr. Hongyang Li*
Worked on end-to-end perception&decision model in autonomous driving.

Megvii Limited, Beijing, China · July. 2021 - June. 2022

Research Intern
Worked on lidar-based object detection&tracking, and camera-only 3D object detection.

Publications

(* Equal contribution, # Corresponding authors)

[J1] **K. Li**, N. Wang#, et al. Local Means Binary Networks for Image Super-Resolution[J]. IEEE Transactions on Neural Networks and Learning Systems **(TNNLS)**. 2022.

[J2] X. Jiang, N. Wang#, J. Xin, **K. Li**, et al. Toward Pixel-Level Precision for Binary Super-Resolution With Mixed Binary Representation[J]. IEEE Transactions on Neural Networks and Learning Systems **(TNNLS)**. 2022.

[C3] Y. Hu*, J. Yang*, L. Chen*#, **K. Li***, ..., H. Li#, et al. Planning-oriented Autonomous Driving[C] // Proceedings of IEEE/CVF Conference on Computer Vision and Pattern Recognition **(CVPR, CCF-A)**. 2023. (Best Paper Award)

[C4] **K. Li**, N. Wang#, et al. Feature Space based Loss for Face Photo-Sketch Synthesis [C] // Chinese Conference on Pattern Recognition and Computer Vision **(PRCV, CCF-C)**. 2020. (Oral)

[C5] X. Jiang, N. Wang#, J. Xin, **K. Li**, et al. Training Binary Neural Network without Batch Normalization for Image Super-Resolution[C] // Proceedings of the AAAI Conference on Artificial Intelligence (**AAAI, CCF-A**). 2021.

Honors and Awards

CVPR 2023 Best Paper Award · June. 2023
Outstanding Master Thesis Award, Xidian University · June. 2023
Outstanding Graduate Special Scholarship · Sep. 2020

Academic Service

Program Committee Member/Conference Reviewer

- IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2023
- IEEE/CVF International Conference on Computer Vision (ICCV), 2023
- CAAI International Conference on Artificial Intelligence (CICAI), 2021, 2022