Chenyang Lu

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Experience

Ningbo University, Lecturer 2023.06 - Present

- Research direction: artificial intelligence, autonomous driving

Eindhoven University of Techonology, Researcher 2022.04 - 2023.05

Education

Eindhoven University of Technology, the Netherlands 2018.03 - 2023.01

Ph.D., Electrical and Electronic Engineering (Robotics Perception)

- Funded by Dutch Research Council (NWO)
- Dissertation title: Advances in Perception for Automated Mobile Systems

Eindhoven University of Technology, the Netherlands 2016.08 - 2018.03

M.S., Mechanical Engineering (Control System Technology) GPA: 8.96/10.00

- Granted ALSP/HS scholarship (fully funded)
- Cum Laude (highest in the Netherlands)

Zhejiang University, China 2013.08 - 2017.06

B.S., Mechatronics Engineering GPA: 3.92/4.00

- Mixed Honors Class in Chu Kochen Honors College (Rank 6/188)
- Top 2% out of 79 students in Mechatronics Engineering

Publications

*corresponding author, for citations please see [Google Scholar]

- Hangfeng Qiao, Huiping Jiang, Gang Yang, Faming Jing, Weiwei Sun, **Chenyang Lu**, and Xiangchao Meng. **A Multi-Source Dynamic Fusion Network for Urban Functional Zone Identification on Remote Sensing, POI, and Building Footprint.** IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2024.
- Zhengxuan Xie, Feng Shao, Baoyang Mu, Hangwei Chen, Qiuping Jiang, **Chenyang Lu**, Yo-Sung Ho. **BGDFNet: Bidirectional Gated and Dynamic Fusion Network for RGB-T Crowd Counting in Smart City System.** IEEE Transactions on Instrumentation and Measurement, 2024.
- Binwei Xu, Qiuping Jiang, Xing Zhao, **Chenyang Lu**, Haoran Liang, and Ronghua Liang. **Multidimensional Exploration of Segment Anything Model for Weakly Supervised Video Salient Object Detection.** IEEE Transactions on Circuits and Systems for Video Technology, 2024.
- **Chenyang Lu***, Daan de Geus (equal contribution), Gijs Dubbelman. **Content-aware Token Sharing for Efficient Semantic Segmentation with Vision Transformers**. 2023 IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2023.
- **Chenyang Lu***, Gijs Dubbelman. **Self-Supervised Road Layout Parsing with Graph Auto-Encoding**. IEEE Intelligent Vehicles Symposium (IV), 2022.
- **Chenyang Lu***, Gijs Dubbelman. **Towards Self-Supervised Learning of Explainable Scene Graphs for Symbolic Scene Understanding**. arXiv preprint arXiv:2012.05975.
- Daan de Geus*, Panagiotis Meletis, **Chenyang Lu**, Xiaoxiao Wen, Gijs Dubbelman. **Part-aware Panoptic Segmentation**. 2021 IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR), 2021.

- Panagiotis Meletis*, Xiaoxiao Wen, **Chenyang Lu**, Daan de Geus, and Gijs Dubbelman. **Cityscapes-Panoptic-Parts and PASCAL-Panoptic-Parts datasets for Scene Understanding**. arXiv preprint arXiv:2004.07944.
- **Chenyang Lu***, Gijs Dubbelman. **Semantic Foreground Inpainting from weak supervision**. IEEE Robotics and Automation Letters, vol. 5, no. 2, pp. 1334-1341, 2020. (also presented in ICRA' 20)
- **Chenyang Lu***, Gijs Dubbelman. **Learning to complete partial observations from unpaired prior knowledge**. Pattern Recognition, vol. 107, 107426, 2020.
- **Chenyang Lu***, Marinus Jacobus Gerardus van de Molengraft, Gijs Dubbelman. **Monocular Semantic Occupancy Grid Mapping with Convolutional Variational Encoder-Decoder Networks**. IEEE Robotics and Automation Letters, vol. 4, no. 2, pp. 445–452, 2019. (also presented in ICRA' 19)

Project Experience

Ningbo Yongjiang Talent Programme, PI 2024.09-2029.09
- Research on high-reliability visual environment perception and digital twin for intelligent driving

Zhejiang Provincial Natural Science Foundation of China, PI 2024.01-2026.12
- Explicit Learning of Imaging Geometry Information for Perception in Autonomous Driving

"Pioneer" and "Leading Goose" R&D Program of Zhejiang, Participate 2024.01-2025.12
- Research on Key Safety Technologies for Autonomous Unmanned Systems

Netherlands Organization for Scientific Research (NWO), Participate 2018.03-2021.12
- Sensing, Mapping, and Localization (Project i-CAVE)

Services

Reviewer for: IEEE International Conference on Robotics and Automation (ICRA), IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS), IEEE Intelligent Vehicles Symposium (IV), Journal of Ambient Intelligence and Humanized Computing, Engineering Applications of Artificial Intelligence (EAAI), IEEE Transactions on Industrial Informatics (T-II), IEEE Robotics and Automation Letters (RA-L)

Teaching

Computational Thinking and C Programming, lecturer	2024
Bachelor End Project, project supervisor	2020-2022
Advanced Sensing using Deep Learning (5AUA0), project supervisor	2020-2022
Master Graduation Project, project supervisor	2021
Convolutional neural networks for computer vision (5LSM0), TA	2019

Awards, Scholarship, Achievements

- 2025 Young Talents of Zhejiang Provincial Key Talent Project
- 2025 Leading Talents of Ningbo
- 2024 Ningbo Yongjiang Talent Programme
- 2018 Full Scholarship for PhD Students (Work Contract)
- 2018 Cum Laude (MSc degree)
- 2016 ALSP/HS Scholarship from TU/e and Dutch Ministry of Education, Culture, and Science
- 2016 Festo (China) Scholarship for Undergraduate Students
- 2015 Second Prize in the National Mechanics Competition
- 2015 First Class Scholarship for Outstanding Merits (Top 3% in Zhejiang Univ.)
- 2015 Liebherr (China) Scholarship for Undergraduate Students
- 2014 First Class Scholarship for Outstanding Merits (Top 3% in Zhejiang Univ.)