Curriculum Vitae

Yancong Lin
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Summary

Interests in **pre-wiring deep learning with generic visual inductive priors**
Skilled at **differentiable parameterization of classic feature engineering**
Experience in **geometric photography, scene understanding, 3D reconstruction**

Experience

5/2022 - Now	**Postdoc, Intelligent Vehicles Group, TUDelft, the Netherlands** working with Prof. Dariu Gavrila and Dr. Holger Caesar Data-efficient perception models for highly automated vehicles
01/2022 - Now	**Part-time researcher, Aiir Innovations, the Netherlands** Computer vision for industrial inspection.

Education

9/2017-4/2022	**PhD, Computer Vision Lab, TUDelft, the Netherlands** Advisors: Dr. Jan van Gemert and Dr. Silvia L. Pintea Data-efficient learning of geometric structures from single-view images
9/2014-6/2017	MEng in Computer Science, Tianjin University, China
9/2010-6/2014	BSc in Physics, Southwest Jiaotong University, China

Service

Teaching	Seminar Computer Vision by Learning (MSc, 2018-2022)
Reviewing	Outstanding reviewer at CVPR'22 / ECCV'22
Conference	Local chair, The Netherlands Conference on Computer Vision
Workshop	Visual Inductive Priors for Data-Efficient Deep Learning Workshop

Supervision

Nafie Amrani	BladeNeRF: Exploiting camera constraints for NeRF in repetitive texture-less 3D reconstruction, *Cum laude*, master thesis, 2023
Chengming Feng	Synthetic pretraining for object detection, master thesis, 2022
Andrea Alfieri	On the decomposition of visual sets using Transformers, master thesis, 2021
Kang Lang	Vertex-voting-based polygonal object detection, master thesis, 2020

Publication

- A step towards understanding why classification helps regression, ICCV 2023.
  S. Pintea, **Y. Lin**, J. Dijkstra, and J. van Gemert.
- NeRD++: Improved 3D-mirror symmetry learning from a single image, BMVC 2022.
  Y. Lin, S. Pintea, and J. van Gemert.
- Deep vanishing point detection: Geometric priors make dataset variations vanish, CVPR 2022.
  Y. Lin, R. Wiersma, S. Pintea, K. Hildebrandt, E. Eisemann and J. van Gemert.
- Deep Hough-Transform line priors. **Y. Lin**, S. Pintea, and J. van Gemert. ECCV 2020.
- Investigating transformers in the decomposition of polygonal shapes as point collections.
  A. Alfieri, **Y. Lin**, and J. C. van Gemert. ICCV-workshop 2021, Best Student Paper.

September 13, 2023