Alessandro Simoni

PhD Candidate

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Links: 🏠 alexj94.github.io | 🔗 LinkedIn | 🐙 GitHub | 🎓 Google Scholar

Summary

I'm a PhD Candidate at the University of Modena and Reggio Emilia with my thesis defense expected to be in March 2024. I'm searching for both Research Scientist and Research Engineer positions in Deep Learning and Computer Vision. Considering my research background in 3D Deep Learning and Computer Vision, I would like to continue working on topics related to 3D understanding from images and videos, but I'm motivated to explore also other topics.

Work Experience

AlmageLab, University of Modena and Reggio Emilia May 2020 – (*July 2024*)
Research fellow + PhD Student Modena, Italy

- AI platform with digital twins of interacting robots and people (July 2023 – July 2024)
- Study of recent combinations of CNN and Vision Transformer architectures (June 2022 – June 2023)
- Prediction of Activities and Events by Vision in an Urban Environment (May 2020 – May 2022)

Education

University of Modena and Reggio Emilia November 2020 – (*March 2024*)
PhD in Computer Vision and Deep Learning Modena, Italy

- **Research Topic**: the role of semantic keypoints in the understanding of the 3D real world through image analysis
- **Activities**: 3D object reconstruction (neural rendering, NeRF), 3D skeleton pose estimation

University of Modena and Reggio Emilia September 2017 – February 2020
MSc in Computer Engineer Modena, Italy

- **Key exams**: Deep Learning, Computer Vision, Machine Learning, Multimedia Data Processing

Recent Publications (full list on Google Scholar)

Depth-based 3D human pose pose refinement: evaluating the refinet framework 2023
A. D'Eusanio, A. Simoni, S. Pini, G. Borghi, R. Vezzani, R. Cucchiara PRL

Semi-perspective decoupled heatmaps for 3D robot pose estimation from depth maps 2022
A. Simoni, S. Pini, G. Borghi, R. Vezzani IROS + RA-L

Multi-category mesh reconstruction from image collections 2021
A. Simoni, S. Pini, R. Vezzani, R. Cucchiara 3DV

Future urban scene generation through vehicle synthesis 2021
A. Simoni, L. Bergamini, A. Palazzi, S. Calderara, R. Cucchiara ICPR

Certifications

First Certificate in English (FCE) December 2020

- University of Cambridge ESOL Examinations

Skills

Spoken languages: Italian (mothertongue), English (C1 certified)
Programming languages: Python (proficiency), C/C++ (basic)
Libraries & Tools: Pytorch, OpenCV, Numpy, VSCode, PyCharm