Alp Eren SARI

Computer Vision Group

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Education

2020–	Ph.D., Institute of Computer Science, University of Bern, Bern, Switzerland Supervisor: Prof. Paolo Favaro Research interests: disentangled representation learning, unsupervised semantic segmentation
2018–2020	M.Sc., Electrical and Electronics Engineering, Middle East Technical University, Ankara, Turkey Thesis Title: A Thorough Analysis of Unsupervised Depth and Ego-motion Estimation Supervisors: Prof. Aydın Alatan and Assoc. Prof. Sinan Kalkan CGPA: 3.71/4.00
2013–2018	B.Sc., Electrical and Electronics Engineering, Middle East Technical University, Ankara, Turkey CGPA: 3.71/4.00, Ranking: 18 out of 376

Appointments

2020–	Research and Teaching Assistant, Institute of Computer Science, University of Bern, Bern, Switzerland
2018–2020	Researcher, Center for Image Analysis, Middle East Technical University, Ankara, Turkey
2017–2017	Intern, Physical Intelligence Department of Max Planck Institute for Intelligent Systems, Stuttgart, Germany
2016–2016	Intern, Arcelik A.S., Ankara, Turkey

Relevant Projects

- Least Squares Meshes: The algorithm is developed in C++ using the libigl library. Available on GitHub.

- Optimization: Various optimization algorithms including gradient descent method, Newton method, and Davidon-Fletcher-Powell method

Achievements

2013	Ranked 80th in the national university entrance examination (YGS-LYS) out of 231,040 candidates

Computer Skills

Previous experience in Python, C/C++, OpenCV, PIL, Pytorch, Scikit-Learn

Selected Publications

A. E. Sari, and P. Favaro, "FlowCut: Unsupervised Video Instance Segmentation via Temporal Mask Matching.", *arXiv preprint arXiv:2505.13174*, 2025
Link

A. E. Sari, F. Locatello, and P. Favaro, "Boosting Unsupervised Segmentation Learning.", *NeurIPS 2024 Workshop: Self-Supervised Learning-Theory and Practice*, 2024
Link

A. Lemkhenter, A. Bielski, A. E. Sari, and P. Favaro. "Generative Adversarial Learning via Kernel Density Discrimination." *arXiv preprint arXiv:2107.06197*, 2022.
Link

M. Turan, Y. Almalioglu, H. B. Gilbert, A. E. Sari, U. Soylu, and M. Sitti, "Endo-vmfusenet: A deep visual-magnetic sensor fusion approach for endoscopic capsule robots," in *2018 IEEE International Conference on Robotics and Automation (ICRA)*, pp. 1–7, IEEE, 2018.
Link

I. G. Dino, E. Kalfaoglu, A. E. Sarı, S. Akin, O. K. Iseri, A. A. Alatan, S. Kalkan, and B. Erdogan, "Automated building energy modeling for existing buildings using computer vision," in *CIB W78: Conference: Advances in ICT in Design, Construction and Management in Architecture, Engineering, Construction and Operations (AECO)*, 2019.
Link