# Alp Eren SARI

Computer Vision Group  
University of Bern  
Neubrückstrasse 10  
3012, Bern, Switzerland

Email: alp.sari@unibe.ch  
Github: alpErenSari  
Google Scholar: Alp Eren SARI  
LinkedIn: alperensari

## Education

| | |
|---|---|
| 2020– | Ph.D., Institute of Computer Science, University of Bern, Bern, Switzerland<br>Supervisor: Prof. Paolo Favaro<br>Research interests: disentangled representation learning, unsupervised semantic segmentation |
| 2018–2020 | M.Sc., Electrical and Electronics Engineering, Middle East Technical University, Ankara, Turkey<br>Thesis Title: A Thorough Analysis of Unsupervised Depth and Ego-motion Estimation<br>Supervisors: Prof. Aydın Alatan and Assoc. Prof. Sinan Kalkan<br>CGPA: 3.71/4.00 |
| 2013–2018 | B.Sc., Electrical and Electronics Engineering, Middle East Technical University, Ankara, Turkey<br>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 $80^{th}$ 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, F. Locatello, and P. Favaro, "Boosting Unsupervised Segmentation Learning.", *NeurIPS 2024 Workshop: Self-Supervised Learning-Theory and Practice*, 2024
[Link to publication](#)

A. Lemkhenter, A. Bielski, A. E. Sari, and P. Favaro. "Generative Adversarial Learning via Kernel Density Discrimination." *arXiv preprint arXiv:2107.06197*, 2022.
[Link to publication](#)

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 to publication](#)

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 to publication](#)