

Alp Eren SARI

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

Phone: +41 31 511 7604
Email: alp.sari@inf.unibe.ch
Github: [alpErenSari](#)
Google Scholar: [Alp Eren SARI](#)
LinkedIn: [alperensari](#)

Education

- 2020– Ph.D., Institute of Computer Science, University of Bern, Bern, Switzerland
Supervisor: Prof. Paolo Favaro
Research interests: unsupervised representation learning, self-supervised contrastive learning
- 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
- 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

Computer Skills

- Programming Languages: Python, C/C++
- Computer Vision Libraries: OpenCV, PIL
- Machine Learning Libraries: Pytorch, Tensorflow, Scikit-Learn

Relevant Projects

- Least Squares Meshes: Algorithm is developed on C++ using libigl library. Available on Github.
- Spatio-Temporal Transformer Network for Video Restoration (ECCV 2018): The proposed network is implemented on Python using Pytorch library. Available on Github.
- Optimization: Various optimization algorithms including gradient descent method, Newton method, and Davidon-Fletcher-Powell method, and various line search algorithms including fibonacci , golden section, dichotomous, and Lagrange search is implemented on MATLAB. Available on Github.

Professional Activities

- Student Volunteer, International Conference on Computer Vision 2019, Seoul, Korea.

Achievements

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

Scholarships

2014–2018 Outstanding Achievement Scholarship from the Ministry of Youth and Sport of Turkey

Publications

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](#)

M. Turan, Y. Almalioglu, H. B. Gilbert, F. Mahmood, N. J. Durr, H. Araujo, A. E. Sari, A. Ajay, and M. Sitti, “Learning to navigate endoscopic capsule robots,” *IEEE Robotics and Automation Letters*, vol. 4, no. 3, pp. 3075–3082, 2019.

[Link to publication](#)

I. G. Dino, E. Kalfaoglu, A. E. Sari, 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 (AEEO)*, 2019.

[Link to publication](#)