EDUCATION

Ahmet Selim Çanakçı

Q: aselimc **in**: ahmetselimcanakci

Freiburg, 2022

 University of Freiburg, M.Sc. in Computer Science Specialization in AI, 1.8 GPA (1.0 best grade) Master's Thesis: 'Label Efficient LiDAR Panoptic Segmentation', supervised by Prof. Dr. A Master's Project: 'Visually Guided Natural Sound Generation', supervised by Prof. Dr. Th 	Freiburg, Germany Oct 2021 - Sep 2024 Abhinav Valada tomas Brox
 Bilkent University, B.Sc. in Mechanical Engineering Specialization in Robotics and Control, 3.3 GPA (4.0 best grade) Minor: Computer Science 3.6 GPA (4.0 best grade) Bachelor's Thesis: 'Autonomous Magneto-Rheological Suspension', supervised by Prof. Dr. 	Ankara, Turkey Sep 2016 - Jun 2021 Yegan Erdem
WORK EXPERIENCE	
 Robotics Engineer Robot Learning Laboratory, University of Freiburg Developed new applications for a quadruped robot using state-of-the-art methods. Developed domain adaptable traversability estimation network leveraging vision foundatio (Paper will be published soon) Maintained hardware and software for optimal robot performance. Used sensor data (LiDAR, Camera, IMU, GPS) in vision tasks like perception, mapping, a Supervisors: Iana Zhura, Prof. Dr. Abhinay Valada 	Freiburg, Germany Jan 2024 - Sep 2024 n models. and navigation.
Tech Stack: Python, PyTorch, ROS, C++	
 Deep Learning Engineer Autonomous Intelligent Systems Laboratory, University of Freiburg Implemented state-of-the-art computer vision algorithms into open-source robotics library Developed asynchronous visual-SLAM algorithms optimized for domain adaptation with c (CoVIO acknowledgements @ CVPR W 2023) Developed visual-LiDAR depth prediction model. Supervisors: Niclas Voedisch, Prof. Dr. Wolfram Burgard Tech Stack: Python, PyTorch, ROS/ROS2, Distributed Training 	Freiburg, Germany Oct 2022 - Jan 2024 OpenDR on Github. ontinual learning.
Student Software Engineer Cutena, BICO	Freiburg, Germany Nov 2021 - Aug 2022
 Developed internal scripts for data processing and assisted the software team with custom Implemented automated REST API tests for E2E and integration testing using PyTest, a company's core software product. Documented and tracked test activities using XRay and JIRA, ensuring transparency and Tech Stack: Python, PyTest, REST API, Docker 	solutions. chieving 90% coverage of the traceability.
 Research Assistant Systems Laboratory, Bilkent University Developed a smart control allocation system to detect and mitigate driver-induced oscillat Conducted simulations and human experiments in virtual environments to validate system Micro-Nano Fluids Laboratory, Bilkent University Developed classical image processing algorithms to extract physical attributes data of camera-recorded experiment videos. [paper] Tech Stack: Python, MATLAB, Simulink, Unreal Engine 	Ankara, Turkey Jan 2021 - July 2021 ions. a performance. Feb 2019 - Jan 2021 the droplet from high-speed
Projects	

Clustering segmentation on iBOT [code]

• Developed semantic segmentation algorithm using several clustering methods using iBOT features.

• Tech Stack: Python, PyTorch, Scikit-learn, W&B

TALKS

• Paper Review: Understanding Collapse in Non-Contrastive Siamese Representation Learning. [video]

Skills & Accomplishments

- Languages: Turkish (native), English (fluent), German (intermediate)
- Technical: Python, C++, Java, Git, ROS
- Honors & Grants: Comprehensive Scholarship Bilkent University (2016-2021), Dean's List at Bilkent University (5 times, 2016-2021)