Selahaddin HONI / 호니

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ABOUT

I have been affiliated with KAIST for over a year, first as an exchange student and now as a visiting researcher in the Vision and Learning Laboratory. My goal is to pursue my graduate degree at KAIST, where I can deepen my knowledge in computer vision and machine learning field. I have experience in metric learning and object tracking in long-term videos. My current research topic is universal few-shot learning for dense prediction tasks, which I find challenging and rewarding. However, I am also open to exploring other topics in this field.

EDUCATION

KAIST — Korea Advanced Institute of Science and Technology Daejeon, Korea
Master • Exchange Student Spring, 2022 ~ Fall, 2022
Completed Courses: Deep Learning • Computer Vision • Digital Image Processing • Technical Writing

Istanbul Technical University Istanbul, Turkey
Master • Telecommunications Engineering [Suspended for KAIST Applications] Spring, 2022 ~ Fall, 2022

Istanbul Technical University Istanbul, Turkey
Bachelor • Electronics & Communications Engineering • GPA: 3.54 / 4.00 (Extra credits in Grad-School) Spring, 2017 ~ Fall, 2021
Advisor: Prof. Bilge Gunsel **Thesis:** Long-term person tracking via deep learning

RESEARCH EXPERIENCE

Visiting Student Researcher in KAIST Daejeon, Korea
Vision and Learning Laboratory July, 2023 ~ Present
One of my lab members published an outstanding award-winning paper in ICLR'23 that shows how to learn an arbitrary dense prediction task with a few labeled images. I am pursuing research to improve the model by incorporating temporal attention to broaden its universality and suitability to video tasks.

Undergraduate Researcher in Istanbul Technical University Istanbul, Turkey
Multimedia Signal Processing and Pattern Recognition Research Group August, 2021 ~ March, 2022
We created a novel inference architecture that leverages re-identification features for data association in visual object tracking for long-term videos. Our tracker provisionally matched the state-of-the-art performance within the scope of person tracking in the Visual Object Tracking – Long Term 2021 benchmark.

Intern in TUBITAK BILGEM (Sci. & Tech. Research Council of Turkey) Kocaeli, Turkey
Communication & Signal Processing Lab. July ~ September, 2020
Our team created an end-to-end communication channel for a simplified control model using GNU Radio environment. We built physical, data link, network, and transport layers and applied basic modulations on LimeSDR hardware.

Intern in HAVELSAN Inc. Ankara, Turkey
Big Data & Artificial Intelligence Section May ~ June, 2020
I led a small team working on an introductory project to computer vision that classified static hand figures visually. We created a custom dataset to train our model and built a real-time interface for our application. We then improved our project into a touchless design for automats, which brought us an innovation award from the company.

Intern in BAYKAR Technologies Istanbul, Turkey
Control Simulation & Embedded Software Dept. June ~ September, 2019
Our team created a platform for converting embedded C code to C# code. We hosted the project on the department server with a web interface for our colleagues to use.

TEACHING EXPERIENCE

Teaching Assistant Istanbul Technical University, 2021
Machine Learning for Signal Processing • EHB328 • Fall 2021

HONORS & AWARDS

2021 • National Academic Personnel and Graduate Education Exam (Quantitative) • Ranked in the top 1%
2016 • National Higher Education Examination Undergraduate Placement Exam • Ranked in the top 0.3%