Selahaddin HONİ

001honi.github.io | 001honi@gmail.com Daejeon, Korea

EDUCATION

KAIST — Korea Advanced Institute of Science and Technology

Daejeon, Korea

Joint Master & PhD · School of Computing

2024

Advisor: Prof. Junehwa Song

Research Interest: Applied AI · Interactional & Social Computing · Mobile, IoT and Wearable Computing

KAIST · Exchange Student & Visiting Student Researcher

2023

Istanbul Technical University

Istanbul, Turkiye

Bachelor · Electronics & Communications Engineering · GPA: 3.54 / 4.00

Graduated in 2022

Advisor: Prof. Bilge Günsel Thesis: Deep learning for long-term visual tracking of people

EXPERIENCE

Graduate Student Researcher in KAIST

Daejeon, Korea

NC Laboratory

Apr 2024 to Present

I research on the design of human-centered computational systems in collaboration with AI to drive meaningful societal impact.

Visiting Student Researcher in KAIST Vision and Learning Laboratory

Daejeon, Korea

Jul 2023 to Dec 2023

Visual Token Matching (VTM) is a general-purpose few-shot learner for arbitrary visual dense prediction tasks, as proposed by a lab mate in an outstanding paper in ICLR'23. However, VTM cannot handle temporal information, which hinders its performance in video domains. In my internship, I enhanced VTM's generalizability by incorporating time attention into its framework. Empirical results show that the method surpasses the baseline VTM when a very limited support set is available. Specifically, the method achieves 8.89% and 4.37% higher accuracy than the baseline in 1-shot and 2-shot scenarios, respectively, on the DAVIS2016 video segmentation dataset.

Undergraduate Researcher in Istanbul Technical University

Istanbul, Turkiye

Multimedia Signal Processing and Pattern Recognition Research Group

Aug 2021 to Mar 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 Turkiye)

Kocaeli, Turkiye

Communication & Signal Processing Lab.

Jul 2020 to Sep 2020

Our team created an end-to-end communication channel for a control model using GNU Radio. We built physical, data link, network, and transport layers and applied basic modulations on LimeSDR hardware.

Intern in HAVELSAN Inc.

Ankara, Turkiye

Big Data & Artificial Intelligence Section

May 2020 to Jun 2020

I led a visual gesture recognition project, created a custom dataset and a real-time app, and won an innovation award.

Intern in BAYKAR Technologies

Istanbul, Turkiye

Control Simulation & Embedded Software Dept.

Jun 2019 to Sep 2019

My team deployed a web platform for converting embedded C code to C# code.