

Selahaddin HONİ

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Daejeon, Korea

EDUCATION

KAIST — Korea Advanced Institute of Science and Technology Joint Master & PhD · School of Computing Advisor: Prof. Junehwa Song • I was a visiting researcher in Vision and Learning Lab supervised by Prof. Seunghoon Hong. • I completed several courses on AI and its applications as an exchange student.	Daejeon, Korea 2024 2023 2022
Istanbul Technical University Bachelor · Electronics & Communications Engineering · GPA: 3.54 / 4.00 Advisor: Prof. Bilge Günsel Thesis: Deep learning for long-term visual tracking of people	Istanbul, Türkiye 2022

EXPERIENCE

Graduate Student Researcher in KAIST NC Laboratory I research on the design of human-centered computational systems in collaboration with AI to drive meaningful societal impact.	Daejeon, Korea April, 2024 ~
Visiting Student Researcher in KAIST Vision and Learning Laboratory 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.	Daejeon, Korea July, 2023 ~ December, 2023
Undergraduate Researcher in Istanbul Technical University Multimedia Signal Processing and Pattern Recognition Research Group 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.	Istanbul, Türkiye August, 2021 ~ March, 2022
Intern in TUBITAK BILGEM (Sci. & Tech. Research Council of Türkiye) Communication & Signal Processing Lab. 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.	Kocaeli, Türkiye July ~ September, 2020
Intern in HAVELSAN Inc. Big Data & Artificial Intelligence Section I led a visual gesture recognition project, created a custom dataset and a real-time app, and won an innovation award.	Ankara, Türkiye May ~ June, 2020
Intern in BAYKAR Technologies Control Simulation & Embedded Software Dept. My team deployed a web platform for converting embedded C code to C# code.	Istanbul, Türkiye June ~ September, 2019