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001honi.github.io

ABOUT

My research experience in computer vision covers object detection and tracking in long-term videos, metric learning for similarity matching and (person) re-identification. These topics are included in my interests but not limited to.

EDUCATION

KAIST — Korea Advanced Institute of Science and Technology

Master • Exchange Student

Daejeon, Republic of Korea

Spring, 2022 ~ Present

Completed Courses: Deep Learning • Computer Vision • Digital Image Processing

Istanbul Technical University

Master • Telecommunications Engineering

Istanbul, Turkey

Spring, 2022 ~ Present


Istanbul Technical University

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

Istanbul, Turkey

Spring, 2017 ~ Fall, 2021

Advisor: Prof. Bilge Günsel

Thesis: Long-term person tracking via deep learning 

Completed Courses (Grad): Statistical Signal Processing • Statistical Pattern Analysis & Classif • Digital Video Processing

EXPERIENCE

Undergraduate Researcher in Istanbul Technical University

Multimedia Signal Processing and Pattern Recognition Research Group

Istanbul, Turkey

August, 2021 ~ Present

A novel **visual object tracking** inference architecture that employs **re-identification** features for data association was proposed for **long-term videos**. The tracker yielded comparable performance with state-of-the-art in **Visual Object Tracking – Long Term 2021 benchmark** in the scope of person tracking.

Teaching Assistant in Istanbul Technical University

Machine Learning for Signal Processing

Istanbul, Turkey

September ~ December, 2021

He assisted an undergraduate course focuses on fundamental **machine learning algorithms**.

Intern in TUBITAK BILGEM (Sci. & Tech. Research Council of Türkiye)

Communication & Signal Processing Lab.

Kocaeli, Turkey

July ~ September, 2020

An end-to-end communication channel for a simplified control model was designed on GNU Radio environment. Physical, data link, network and transport layers were constructed and basic modulations were implemented on LimeSDR hardware. At the end, designed communication system was demonstrated to the president of the institute in the final presentation.

Intern in HAVELSAN Inc.

Big Data & Artificial Intelligence Section

Ankara, Turkey

May ~ June, 2020

An introduction project to computer vision which is **visual classification** of static hand figures was performed. **Custom dataset** was generated to train the model and application was supported by a **real-time interface**. Then, it was evolved into a touchless design for automats with a motivation of **innovative ideas competition**; awarded with 3rd prize after it is presented to the management team of the company.

Intern in BAYKAR Technologies

Control Simulation & Embedded Software Dept.

Istanbul, Turkey

June ~ September, 2019

A platform for translation between embedded C and C# languages has been coded. The project having web interface has deployed on the department server to serve to colleagues.

HONORS & AWARDS

2021 • National Academic Personnel and Graduate Education Exam (Quantitative) • 99th success percentile

2016 • National Higher Education Examination Undergraduate Placement Exam • 99.7th success percentile