Fatih Can Kurnaz

fatihcankurnaz@gmail.com | +905069064039 | fatih@ceng.metu.edu.tr

EDUCATION

MIDDLE EAST TECHNICAL UNIVERSITY

Master's degree in Computer Engineering

Sep 2017-Current | Ankara, Turkey
Cum. GPA: 3.93 / 4.0

MIDDLE EAST TECHNICAL UNIVERSITY

BS in Computer Engineering

2012 -- 2017 | Ankara, Turkey
Cum. GPA: 3.11 / 4.0

LINKS

fatihcankurnaz.me
Github:// **webcok**
LinkedIn:// **fatihcankurnaz**

COURSEWORK

GRADUATE

Deep Learning
Learning and Development in Robotics
Pattern Recognition
Statistical Data Analysis
Distributed Computing Systems

UNDERGRADUATE

Artificial Intelligence
Planning of Robotic Manipulation
Introduction to machine learning
Understanding Social Behavior
Computer Graphics
Cloud Computing
Data Communications and Networking

SKILLS

TECHNICAL KNOWLEDGE

Good:
Python • C++ • Pytorch • ROS
Familiar:
C • Matlab • R • Tensorflow
MySQL • Shell • Keras

REFERENCES

Associate Professor Erol Sahin
Associate Professor Sinan Kalkan
Assistant Professor Eren Erdal Aksoy

EXPERIENCE

HALMSTAD UNIVERSITY

Research Internship

June 2019 - Sep 2019 | Halmstad, Sweden

- Worked with **Tiago Cortinhal** and **Dr. Eren Erdal Aksoy** on point cloud to image generation.
- Created pix2pix like GAN pipeline.
- Currently this project still in development.

MIDDLE EAST TECHNICAL UNIVERSITY COMPUTER ENGINEERING

Research And Teaching Assistant

Jan 2018 - Present | Ankara Turkey

- CENG 331 Computer Organization
- CENG 489 Int. to Security in Computing
- CENG 384 Signals and Systems for Computer Engineers
- CENG 49x Computer Engineering Design

KOVAN RESEARCH LAB

Researcher

June 2017 - Present | Ankara Turkey

- Currently working with **Burak Hocaoglu** and **Prof Sinan Kalkan** creating a tool dataset which would be helpful to robotic applications.
- Worked with **Prof Sinan Kalkan** on trajectory generation by using GANs created from LSTMs and perception module for CIRAK project which will track objects in the scene along with hands and gaze of the human.
- By using ros_control framework created my own experimental robots and their controllers so that I could gather robot trajectory data from the simulation.
- Created GuvenlikBekcisi(SafetyWatchdog) framework, which would create safety regions and control robot action around a human, on ROS for CIRAK project.

KOVAN RESEARCH LAB

Research Intern

June 2016 - Sep 2016 | Ankara Turkey

- Worked with **Baskin Burak Senbaslar** and **Prof Erol Sahin** to create multi UAV controller on top of the hector_quadrotor ROS package and implemented my own PID controller for it.
- Worked with **Baskin Burak Senbaslar** and **Prof Erol Sahin** on iCub humanoid robot, Yarp, Kinect, and Visualeyez motion capture technologies in order to create a program that captures human emotion from the photo and reflects it on iCub's face.

LABRIS NETWORKS

Internship

July 2015 - Sep 2016 | Ankara Turkey

- Worked on a project that gathered blacklisted URLs from different sources by using an Python script and classified them according to their source trust rating in an PostgreSQL database.
- Worked on their own OS for easy to handle blacklisting.

PUBLICATIONS

[1] S. Tilsen, D. Das, and B. McKee. Real-time articulatory biofeedback with electromagnetic articulography. *Linguistics Vanguard*, in press.