

Kazim Selim Engin
Ph.D. Student
100 Union St. SE Minneapolis, MN

October 18, 2018
engin003@umn.edu
<http://z.umn.edu/ksen>

Education

- University of Minnesota** Minneapolis, MN
 - *Ph.D. Student in Computer Science and Engineering* *Sept 2016 - present*
Advisor: Prof. Volkan Isler
- Sabanci University** Istanbul, Turkey
 - *B.S. in Mechatronics Engineering* *Sept 2012 - June 2016*

Research Experience

- Robotic Sensor Networks Lab** Minneapolis, MN
 - *Graduate Researcher* *Sept 2016 - present*
 - Designing approximation algorithms and online strategies for network formation of a multi-robot system
 - Manipulation planning and perception to grasp an object of unknown pose using an RGB-D camera attached on the Kinova Mico arm
 - Localization of a target using multiple UAVs equipped with bearing-only sensors
- Knowledge Representation and Reasoning Group** Istanbul, Turkey
 - *Undergraduate Researcher* *Sept 2015 - June 2016*
 - Developing an action planner to rearrange cluttered objects so as to grasp an initially unreachable object. The planner was implemented on the Baxter robot to manipulate tabletop objects.
- Joint Institute of Engineering, SYSU-CMU** Guangdong, China
 - *Undergraduate Research Intern* *June 2015 - Sept 2015*
 - Parameter identification and state of charge estimation of deteriorated batteries using adaptive unscented Kalman Filters
- Automation and Information Systems, Technical University of Munich** Munich, Germany
 - *Undergraduate Research Intern* *July 2014 - Sept 2014*
 - Traffic signalization and control using MATLAB Stateflow
 - Conveyor band automation using various sensors and actuators

Publications

1. S. Engin, V. Isler, Asynchronous Network Formation in Unknown and Unbounded Environments, *International Conference on Robotics and Automation*, 2019 (in review).

2. S. Engin, V. Isler, Minimizing Movement to Establish the Connectivity of Randomly Deployed Robots, *International Conference on Automated Planning and Scheduling*, 2018.
3. H. Bayram, N. Stefas, S. Engin, V. Isler, Tracking Wildlife with Multiple UAVs: System Design, Safety and Field Experiments, *IEEE International Symposium on Multi-Robot and Multi-Agent Systems*, 2017.

Computer Skills

MATLAB/Simulink, Python, C++, Arduino, Standard ML, Prolog, Assembly (PIC24)

Honors

- Cedar Creek Ecosystem Science Reserve Fellowship (2018)
- UMN Graduate School Fellowship (2017)
- Sabancı University Scholarship (2012-16)

Teaching Experience

CSCI 1133 - Introduction to Computing and Programming Concepts (Spring 2017, Fall 2017):
GitHub organization setup for the class, preparing assignments, grading/auto-grading and interviewing students