Kazim Selim Engin   **April 26, 2020**
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Education

University of Minnesota   Minneapolis, MN
- *Ph.D. Student in Computer Science and Engineering*   *Sept 2016 - present*
  Advisor: Prof. Volkan Isler

- **Sabancı University**   Istanbul, Turkey
  B.S. in Mechatronics Engineering   *Sept 2012 - June 2016*

Research Experience

- Samsung Research Artificial Intelligence Center   New York City, NY
  Research Intern   *Jan 2019 - Aug 2019*

  - Single and multi-view 3D reconstruction, learning object representations, object part decomposition from images, velocity controller for visual servoing of a manipulator robot

- Robotic Sensor Networks Lab   Minneapolis, MN
  Graduate Student   *Sept 2016 - present*

  - Approximation algorithms and online strategies for network formation of a multi-robot system
  - 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*

  - Developed an action planner to rearrange cluttered objects so as to grasp an initially unreachable object

- Joint Institute of Engineering, SYSU-CMU   Guangdong, China
  Undergraduate Research Intern   *June 2015 - Sept 2015*

  - Worked on parameter identification and state of charge estimation of deteriorated batteries

- 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, Active Localization of Multiple Targets Using Noisy Relative Measurements, *Workshop on the Algorithmic Foundations of Robotics (WAFR)*, 2020.

2. S. Engin, E. Mitchell, D. Lee, V. Isler, D. D. Lee, Higher Order Function Networks for View Planning and Multi-View Reconstruction, *International Conference on Robotics and Automation (ICRA)*, 2020.

3. E. Mitchell, S. Engin, V. Isler, D. D. Lee, Higher Order Function Networks for Learning Composable 3D Object Representations, *International Conference on Learning Representations (ICLR)*, 2020.

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

5. S. Engin, V. Isler, Minimizing Movement to Establish the Connectivity of Randomly Deployed Robots, *International Conference on Automated Planning and Scheduling (ICAPS)*, 2018.

6. 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 (MRS)*, 2017.

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

Professional Services

Reviewer for IROS (2017-2020), ICRA (2018-2020), NeurIPS (2019), ICLR (2020), WAFR (2020)

Recent Talks

- Aerospace Engineering and Mechanics Research Seminar, Minneapolis, MN, April 2020
- CS Graduate Research and Discussion Seminars, Minneapolis, MN, March 2020
- Samsung Vision Workshop, Seoul, Korea, November 2019
- Samsung AI Center Research Seminar, New York City, NY, November 2018
- UMN Visual Computing & AI Seminar, Minneapolis, MN, November 2018

Technical Skills

Python, C++, PyTorch, Matlab/Simulink