

Curriculum Vitae

Nihal ALTUNTAŞ, Assist. Prof. Dr.

1. Education:

- a. **BSc:** Fatih University, Department of Computer Engineering, 2010
- b. **MSc:** Fatih University, Department of Computer Engineering, 2013
- c. **PhD:** Yildiz Technical University, Department of Computer Engineering, 2020

2. Academic Experience:

- a. Res. Assist. - Yildiz Technical University, Faculty of Electrical and Electronics Engineering, Department of Computer Engineering, 2014 - 2019
- b. Assist. Prof. Dr. - Istanbul Gelisim University, Faculty of Engineering and Architecture, Department of Computer Engineering, 2020 -

3. Non-Academic Experience:

- a. Vice Director of Institute of Graduate Studies, Istanbul Gelisim University, 2020 -
- b. Senior R&D Software Specialist (part-time), Polonom Robotics, 2019 - 2020

4. Certifications or professional registrations:

Patent: **Altuntaş N.**, Çakmak F., Yavuz S., Amasyalı M.F., Uslu E., KONUM BELİRLEYEN BİR CİHAZ VE OTONOM BİR HARİTALAMA VE KONUM BELİRLEME YÖNTEMİ, Patent, BÖLÜM G Fizik, İlk Tescil, 2020

5. Current membership in professional organizations:

- a. IGU Cyber Security Application and Research Center, Administrative Board Member
- b. IGU Computer Technologies Robotics Application and Research Center, Administrative Board Member

6. Honors and awards:

- a. Best Paper Award, Innovations in Intelligent Systems and Applications Conference (ASYU), October 2017
- b. Rescue Robot League Best Outdoor CarryBot, RoboCup, Nagoya Japan, July 2017
- c. Rescue Simulation League Virtual Robot Contest 1st Place, RoboCup, Nagoya Japan, July 2017
- d. Rescue Robot League Best in Class Autonomy Autonomy, RoboCup, Nagoya Japan, July 2017
- e. Rescue Robot League Best in Class Exploration, RoboCup, Nagoya Japan, July 2017
- f. Rescue Robot League Best in Class Small Robot Exploration, RoboCup, Nagoya Japan, July 2017
- g. Rescue Virtual Robot League Best Autonomous Navigation, RoboCup IranOpen, Tahrán Iranian, April 2017
- h. Rescue Simulation League Virtual Robot Contest 1st Place, RoboCup, Leipzig Germany, July 2016
- i. Rescue Robot League Best in Class Small Robot Exploration, RoboCup, Leipzig Germany, July 2016

7. Service activities:

- a. 2014 - : Academic Staff

8. Important publications (at most 5 titles):

- a. **Nihal ALTUNTAŞ**, Mehmet Fatih AMASYALI (2019). DepthTiling: A novel way to increase visual SLAM performance in featureless environments. Electronics Letters, 55(25), 1338-1340, Doi: 10.1049/el.2019.1384
- b. Salih MARANGOZ, Mehmet Fatih AMASYALI, Erkan USLU, Furkan ÇAKMAK, **Nihal ALTUNTAŞ**, Sırma YAVUZ (2019). More scalable solution for multi-robot-multi-target assignment problem. ROBOTICS AND AUTONOMOUS SYSTEMS, 113, 174-185, Doi: 10.1016/j.robot.2019.01.005
- c. Erkan USLU, Furkan ÇAKMAK, **Nihal ALTUNTAŞ**, Salih MARANGOZ, Mehmet Fatih AMASYALI, Sırma YAVUZ (2017). An architecture for multi-robot localization and mapping in the Gazebo/Robot Operating System simulation environment. SIMULATION-TRANSACTIONS OF THE SOCIETY FOR MODELING AND SIMULATION INTERNATIONAL, 93(9), 771-780, Doi: 10.1177/0037549717710098
- d. **Nihal ALTUNTAŞ**, Erkan İMAL, Nahit EMANET, Ceyda Nur ÖZTÜRK (2016). Reinforcement learning based mobile robot navigation. TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, 24, 1747-1767, Doi: 10.3906/elk-1311-129
- e. Mustafa Burak DİLAVER, Furkan ÇAKMAK, Erkan USLU, **Nihal ALTUNTAŞ**, Mehmet Fatih AMASYALI, Sırma YAVUZ (Mayıs 2019). RoboCup RRL Manevra 2 Alanı için Otonom Gezinim Algoritması (Autonomous Navigation Algorithm for RoboCup RRL Maneuvering 2 Field). Akıllı Sistemler ve Uygulamaları Dergisi, 1(2), 213-216

9. Most recent professional development activities:

- a. Uygur KÖROĞLU, Usame İSLAMOĞLU, Erkan USLU, Furkan ÇAKMAK, **Nihal ALTUNTAŞ**, Mehmet Fatih AMASYALI, Sırma YAVUZ (2019). Design of an Autonomous Effective Area Scanning Robot. 2019 Innovations in Intelligent Systems and Applications Conference (ASYU), Doi: 10.1109/ASYU48272.2019.8946410
- b. Fatih BAYGÜL, Erkan USLU, Furkan ÇAKMAK, **Nihal ALTUNTAŞ**, Mehmet Fatih AMASYALI, Sırma YAVUZ (2019). Holonomic Robot Navigation in Narrow Spaces. 5. Turkey Robotics Conference (ToRK 2019), 16-21.
- c. Nurgül YÜZBAŞIOĞLU, **Nihal ALTUNTAŞ** (2018). Academic Ontology for AVESIS. 2018 3rd International Conference on Computer Science and Engineering (UBMK), 569-573, Doi: 10.1109/UBMK.2018.8566391