

## Res. Asst. Berkay GÜRKAN

### Personal Information

**Email:** bgurkan@yildiz.edu.tr

**Web:** <https://avesis.yildiz.edu.tr/5914>

### International Researcher IDs

ScholarID: kIkCTYQAAAAJ

ORCID: 0000-0001-8445-5536

ScopusID: 57210792303

Yoksis Researcher ID: 311944

### Dissertations

Postgraduate, Development and application of flight control software based on STM32f4 microprocessor for quadrotor unmanned air vehicle, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechatronics Engineering, 2022

### Research Areas

System Dynamics and Control

### Academic Titles / Tasks

Research Assistant, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechatronics Engineering, 2019 - Continues

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Adaptive elliptic trajectory-based received signal strength indicator antenna tracking algorithm**  
Taş A. İ., İscan M., Gurkan B., Yılmaz C.  
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, no.01423312231213677, 2023 (SCI-Expanded)
- II. **A novel elliptic trajectory formula for active RSSI-based antenna tracking algorithm**  
İşcan M., Taş A. İ., Gürkan B., Yılmaz C.  
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, vol.45, no.14, pp.2760-2770, 2023 (SCI-Expanded)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Sensor Fusion Design by Extended and Unscented Kalman Filter Approaches for Position and Attitude Estimation Pozisyon ve Yönelim Tahmini için, Genisletilmiş ve Koksuz Kalman Filtresi Yaklaşımlarıyla Sensör Füzyonu Tasarımı**  
Sahin H., GÜRKAN B., ÖMÜRLÜ V. E.

4th International Congress on Human-Computer Interaction, Optimization and Robotic Applications, HORA 2022, Ankara, Turkey, 9 - 11 June 2022

**II. Development of High Ratio Performance/Weight Mechatronic Systems by Using Regenerative Design Techniques**

Güzel S. B., Yesir G., Kılınç B., Erzincanlı F. F., Gürkan B., Ömürlü V. E.

Uluslararası Katılımlı Mekatronik Öğrenci Konferansı, Mekon2021 , İstanbul, Turkey, 25 June 2021, pp.1-6

**III. STM32F407VG microprocessor based flight controller design experimented on a quadrotor**

ÖMÜRLÜ V. E., Gurkan B.

6th International Conference on Electrical and Electronics Engineering, ICEEE 2019, İstanbul, Turkey, 16 - 17 April 2019, pp.302-306

## **Metrics**

Publication: 5

Citation (Scopus): 2

H-Index (Scopus): 1