

## Asst. Prof. YAKUP CEZAYIRLI

### Personal Information

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### International Researcher IDs

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### Biography

Dr. Yakup Cezayirli (Yakoub Nettari) earned his Ph.D. in Electrical Engineering from Yıldız Technical University in 2023. He specializes in robust and intelligent control systems, with a focus on enhancing the performance of multi-drone UAVs, specifically working to improve their robustness and stability when subjected to disturbances during operation. Additionally, he utilizes these multi-drone UAVs to enhance the efficiency and management of renewable energy plants.

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Dr. Yakup Cezayirli (Yakoub Nettari), 2023 yılında Yıldız Teknik Üniversitesi'nden Elektrik Mühendisliği alanında doktorasını tamamlamıştır. Dayanıklı ve akıllı kontrol sistemlerinde uzmanlaşmış olup, dron UAV'lerinin performansını artırmaya odaklanmaktadır; özellikle, bu dronların operasyon sırasında karşılaştıkları bozulmalara karşı dayanıklılığını ve stabilitesini geliştirmeye çalışmaktadır. Ayrıca, bu dron UAV'lerini yenilenebilir enerji tesislerinin verimliliğini ve yönetimini artırmak için kullanmaktadır.

### Education Information

Doctorate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Electronics and Communication Engineering, Turkey 2015 - 2023

Postgraduate, Université de Sétif, Technology, Electrical Engineering /Control and Automation, Algeria 2014 - 2016

### Foreign Languages

English, C1 Advanced

### Research Areas

Electrical Machine Theory and Design, Electric Motor Drivers, Power Converters, Flight Dynamics and Stability, Vehicle Dynamics and Modeling

### Courses

LOW VOLTAGE SYSTEMS, Undergraduate, 2023 - 2024

ADVANCED NUMERICAL ANALYSIS, Postgraduate, 2023 - 2024

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

I. **Adaptive robust finite-time tracking control for quadrotor subject to disturbances**

CEZAYİRLİ Y., Labbadi M., KURT S.

Advances in Space Research, vol.71, no.9, pp.3803-3821, 2023 (SCI-Expanded)

## Articles Published in Other Journals

I. **Design of a new non-singular robust control using synergetic theory for DC-DC buck converter**

CEZAYİRLİ Y., KURT S.

Istanbul University - Journal of Electrical and Electronics Engineering, vol.18, no.2, pp.292-299, 2018 (Scopus)

## Refereed Congress / Symposium Publications in Proceedings

I. **Adaptive Backstepping Integral Sliding Mode Control Combined with Super-Twisting Algorithm for Nonlinear UAV Quadrotor System**

CEZAYİRLİ Y., Labbadi M., KURT S.

14th IFAC Workshop on Adaptive and Learning Control Systems, ALCOS 2022, Casablanca, Morocco, 29 June - 01 July 2022, vol.55, pp.264-269

II. **Adaptive Robust Control based on Backstepping Sliding Mode techniques for Quadrotor UAV under external disturbances**

CEZAYİRLİ Y., KURT S., Labbadi M.

14th IFAC Workshop on Adaptive and Learning Control Systems, ALCOS 2022, Casablanca, Morocco, 29 June - 01 July 2022, vol.55, pp.252-257

III. **Genetic algorithm based adaptive fuzzy terminal synergetic DC-DC converter control**

CEZAYİRLİ Y., Harmas M.

3rd International Conference on Control, Engineering and Information Technology, CEIT 2015, Tlemcen, Algeria, 25 - 27 May 2015

## Scientific Refereeing

ADVANCES IN SPACE RESEARCH, SCI Journal, May 2022

## Metrics

Publication: 5

Citation (Scopus): 29

H-Index (Scopus): 4