

## **Res. Asst. METEHAN YAYLA**

### **Personal Information**

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### **International Researcher IDs**

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Publons / Web Of Science ResearcherID: A-2568-2017

ScopusID: 57192308036

Yoksis Researcher ID: 214640

### **Education Information**

Doctorate, Middle East Technical University, Graduate School of Natural and Applied Sciences, Havacılık Mühendisliği (Dr), Turkey 2016 - Continues

Postgraduate, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, Turkey 2013 - 2016

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, Turkey 2009 - 2013

### **Dissertations**

Postgraduate, An Integration Method over a Moving Window for Exponential Convergence in Adaptive Control without Persistency of Excitation, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, 2016

### **Research Areas**

Technical Sciences, Mechanical Engineering, Machine Theory and Dynamics, System Dynamics and Control, Aeronautical and Space Engineering, Aeronautical Engineering , Flight Sciences, Flight Dynamics and Stability

### **Academic Titles / Tasks**

Research Assistant, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, 2014 - Continues

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

- Command governor-based adaptive control for dynamical systems with matched and unmatched uncertainties**

YAYLA M., Arabi E., KUTAY A. T., Yucelen T.

## Refereed Congress / Symposium Publications in Proceedings

- I. **A Modification to Adaptive Control with Time-varying Learning Rate for Improved Transient Performance**  
YAYLA M., KUTAY A. T.  
AIAA Science and Technology Forum and Exposition, AIAA SciTech Forum 2022, California, United States Of America, 3 - 07 January 2022
- II. **Energy-based adaptive flight controller for improved coordinated longitudinal control**  
YAYLA M., KUTAY A. T., Kutlu A.  
AIAA Science and Technology Forum and Exposition, AIAA SciTech Forum 2021, Virtual, Online, 11 - 15 January 2021, pp.1-18
- III. **An adaptive flight controller design for a tilt-prop fixed wing uav for all flight modes**  
YAYLA M., KUTAY A. T., Senipek M., Gungor O.  
AIAA Scitech Forum, 2020, Florida, United States Of America, 6 - 10 January 2020, pp.1-20
- IV. **Design Methodologies of a Distributed Propulsion Aircraft**  
Fouda M., Haq R., Naeem H. N., Saeed M. A., Wanyonyi S. N., Cigal N., Beker C., YAYLA M., KURTULUŞ D. F.  
10th Ankara International Aerospace Conference, Ankara, Turkey, 18 - 20 September 2019
- V. **Nonlinear optimal adaptive transition control of a tilt-prop VTOL UAV**  
Senipek M., YAYLA M., Gungor O., Cevher L., KUTAY A. T., TEKİNALP O.  
44th European Rotorcraft Forum 2018, ERF 2018, Delft, Netherlands, 18 - 21 September 2018, vol.2, pp.952-964
- VI. **Adaptive model predictive control of uncertain systems with input constraints**  
YAYLA M., KUTAY A. T.  
AIAA Guidance, Navigation, and Control Conference, 2017, Texas, United States Of America, 9 - 13 January 2017
- VII. **Adaptive Control Algorithm for Linear Systems with Matched and Unmatched Uncertainties**  
YAYLA M., KUTAY A. T.  
55th IEEE Conference on Decision and Control (CDC), Nevada, United States Of America, 12 - 14 December 2016, pp.2975-2980
- VIII. **Guaranteed Exponential Convergence without Persistent Excitation in Adaptive Control**  
YAYLA M., KUTAY A. T.  
11th UKACC International Conference on Control (UKACC Control), Belfast, United Kingdom, 31 August - 02 September 2016
- IX. **Uncertainty Parametrization on Inverted Pendulum with Model Reference Adaptive Control**  
SARSILMAZ S. B., YAYLA M., KUTAY A. T.  
Ankara International Aerospace Conference (AIAC), 10 - 12 September 2015
- X. **Bir Muharip İnsansız Uçak Sistemi için Performans Gereksinimlerinin Belirlenmesi**  
YAYLA M., ergin ü., mutlu t., KURTULUŞ D. F.  
III. Ulusal Havacılıkta İleri Teknolojiler Konferansı, HHO, Turkey, 18 - 19 June 2014
- XI. **DYNAMIC STABILITY FLIGHT TESTS OF REMOTE SENSING MEASUREMENT CAPABLE AMPHIBIOUS UNMANNED AERIAL VEHICLE (A-UAV)**  
Yayla M., Sarsılmaz S. B., Mutlu T., Coşgun V., Kurtuluş B., Kurtuluş D. F., Tekinalp O.  
7. ANKARA INTERNATIONAL AEROSPACE CONFERENCE, Ankara, Turkey, 11 - 13 September 2013

## Metrics

Publication: 12

Citation (WoS): 12

Citation (Scopus): 31

H-Index (WoS): 3

H-Index (Scopus): 4