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Personal Information

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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

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- Command governor-based adaptive control for dynamical systems with matched and unmatched uncertainties**
YAYLA M., Arabi E., KUTAY A. T. , Yucelen T.
INTERNATIONAL JOURNAL OF ADAPTIVE CONTROL AND SIGNAL PROCESSING, vol.32, no.8, pp.1124-1144, 2018
(Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- 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

II. 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

III. 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

IV. 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

V. 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

VI. 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

VII. 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

VIII. 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

IX. 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

Citations

Total Citations (WOS):10

h-index (WOS):1