

Dr.Öğr.Üyesi ALİ TÜRKER KUTAY

Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Georgia Institute Of Technology, Aerospace Engineering, Amerika Birleşik Devletleri 2000 - 2005

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Doktora, Neural Network Based Adaptive Output Feedback Control: Applications and Improvements, Georgia Institute Of Technology, Aerospace Engineering, 2005

Akademik Unvanlar / Görevler

Dr.Öğr.Üyesi, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Havacılık Ve Uzay Mühendisliği Bölümü, 2018 - Devam Ediyor

Yrd.Doç.Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Havacılık Ve Uzay Mühendisliği Bölümü, 2010 - 2018

Mesleki Deneyim

Bölüm Başkan Yardımcısı, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Havacılık Ve Uzay Mühendisliği Bölümü, 2012 - 2015

Yönetilen Tezler

KUTAY A. T. , A method for estimating target velocity and range with passive seeker data, Yüksek Lisans, B.CAN(Öğrenci), 2018

KUTAY A. T. , An algorithmic fault-tolerant control architecture without actuator redundancy, Doktora, A.MARANGOZ(Öğrenci), 2018

KUTAY A. T. , Mathematical modeling of a small-scale helicopter and MRAC design with time based uncertainty parametrizations, Yüksek Lisans, M.GÜRLER(Öğrenci), 2018

KUTAY A. T. , An active rocket launcher design for an attack helicopter, Yüksek Lisans, T.BARAN(Öğrenci), 2018

KUTAY A. T. , A robust altitude control approach for sea skimming missiles, Yüksek Lisans, Ö.DÜLGAR(Öğrenci), 2018

KUTAY A. T. , A model based approach for aircraft sensor fault detection, Yüksek Lisans, Ö.SERÇEKMAN(Öğrenci), 2018

KUTAY A. T. , Drone supported pre-scan optimal active suspension for 8x8 vehicle, Yüksek Lisans, A.SANCAR(Öğrenci), 2018

KUTAY A. T. , Reinforcement learning control for autorotation of a simple point-mass helicopter model, Yüksek Lisans, K.KOPŞA(Öğrenci), 2018

KUTAY A. T. , Trajectory optimization of a tactical missile by using genetic algorithm, Yüksek Lisans, B.DİLAN(Öğrenci), 2018

KUTAY A. T. , System identification and control of a fixed wing aircraft by using flight data obtained from X-plane flight

simulator, Yüksek Lisans, E.ÇETİN(Öğrenci), 2018

KUTAY A. T. , Development of an object-oriented design, analysis and simulation software for a generic air vehicle, Yüksek Lisans, M.ŞENİPEK(Öğrenci), 2017

KUTAY A. T. , Terrain referenced navigation of an aircraft using particle filter, Yüksek Lisans, B.TURAN(Öğrenci), 2017

KUTAY A. T. , Abrupt fault detection and accommodation for air data systems, Yüksek Lisans, S.KARAHAN(Öğrenci), 2016

KUTAY A. T. , Aerodynamic parameter estimation of a supersonic missile with rapid speed variation by using kalman filtering, Yüksek Lisans, T.BAYOĞLU(Öğrenci), 2016

KUTAY A. T. , Neural extended kalman filter based angle-only target tracking for cruise missiles, Yüksek Lisans, G.EŞSİZ(Öğrenci), 2016

KUTAY A. T. , Vision-aided landing for fixed wing unmanned aerial vehicle, Yüksek Lisans, E.ESİN(Öğrenci), 2016

KUTAY A. T. , Comparison of concurrent learning and derivative-free model reference adaptive control against parameter variation, Yüksek Lisans, S.BURAK(Öğrenci), 2016

KUTAY A. T. , Interfacing simulink/matlab with V-REP for analysis and control synthesis of a quadrotor, Yüksek Lisans, J.KHALİLOV(Öğrenci), 2016

KUTAY A. T. , An Integration Method over a Moving Window for Exponential Convergence in Adaptive Control without Persistency of Excitation, Yüksek Lisans, M.YAYLA(Öğrenci), 2016

KUTAY A. T. , Adaptive roll control of guided munitions, Yüksek Lisans, N.TUĞÇE(Öğrenci), 2016

KUTAY A. T. , Design and control of nose actuation kit for position correction of spin stabilized munitions under wind effect, Yüksek Lisans, M.EROĞLU(Öğrenci), 2016

KUTAY A. T. , Lyapunov based nonlinear impact angle guidance law for stationary targets, Yüksek Lisans, H.ULAŞ(Öğrenci), 2015

KUTAY A. T. , A comparison of model following control systems for helicopter flight control near hover, Yüksek Lisans, I.DOĞA(Öğrenci), 2015

KUTAY A. T. , Stochastic and deterministic analysis of nonlinear of nonlinear missile engagement scenarios using 5-dof 6-dof and adjoint model, Yüksek Lisans, E.SEZER(Öğrenci), 2015

KUTAY A. T. , Range to-go estimation for a tactical missile with a passive seeker, Yüksek Lisans, S.KALE(Öğrenci), 2015

KUTAY A. T. , Trajectory tracking of a quadrotor unmanned aerial vehicle (UAV) via attitude and position control, Yüksek Lisans, E.CAN(Öğrenci), 2014

KUTAY A. T. , Missile guidance with impact angle constraint, Yüksek Lisans, B.ÇİLEK(Öğrenci), 2014

KUTAY A. T. , Adaptive robust attitude controller design for a quadrotor platform, Yüksek Lisans, E.YILMAZ(Öğrenci), 2014

KUTAY A. T. , Geometric tracking control of a fully actuated rigid body and application to attitude control of a quadrotor UAV, Yüksek Lisans, V.BASHIRI(Öğrenci), 2014

KUTAY A. T. , Modeling and experimental identification of quadrotor aerodynamics, Yüksek Lisans, D.DERYA(Öğrenci), 2014

KUTAY A. T. , Fourier series based model reference adaptive control, Yüksek Lisans, R.BERK(Öğrenci), 2014

KUTAY A. T. , Aerodynamic parameter estimation of a missile, Yüksek Lisans, A.AKSU(Öğrenci), 2013

KUTAY A. T. , Aerodynamic parameter estimation of a missile in closed loop control and validation with flight data, Yüksek Lisans, G.AYDIN(Öğrenci), 2012

KUTAY A. T. , UZOL O., Development of a high-fidelity transient aerothermal model for a helicopter turboshaft engine for inlet distortion and engine deterioration simulations, Yüksek Lisans, Y.NOVIKOV(Öğrenci), 2012

KUTAY A. T. , Development of a comprehensive and modular modelling, analysis and simulation tool for helicopters, Yüksek Lisans, A.YÜCEKAYALI(Öğrenci), 2011

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- **Identification of Physical Helicopter Models Using Subspace Identification**

Avcioğlu S., KUTAY A. T. , Leblebicioğlu K.

JOURNAL OF THE AMERICAN HELICOPTER SOCIETY, cilt.65, 2020 (SCI İndekslerine Giren Dergi)

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

YAYLA M., Arabi E., KUTAYA. T. , Yucelen T.

INTERNATIONAL JOURNAL OF ADAPTIVE CONTROL AND SIGNAL PROCESSING, cilt.32, ss.1124-1144, 2018
(SCI İndekslerine Giren Dergi)

- **Simulation of Rapidly Maneuvering Airfoils with Synthetic Jet Actuators**

Jee S., Lopez Mejia O. D. , Moser R. D. , Muse J. A. , KUTAYA. T. , Calise A. J.
AIAA JOURNAL, cilt.51, ss.1883-1897, 2013 (SCI İndekslerine Giren Dergi)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- **Implementation of physical subspace identification on a realistic helicopter**

Avcioğlu S., KUTAYA. T. , Leblebicioğlu K.

AIAA Scitech Forum, 2019, California, Amerika Birleşik Devletleri, 7 - 11 Ocak 2019

- **A Model Based Approach for Sensor Fault Detection in Civil Aircraft Control Surface**

Sercekman O., KUTAYA. T.

IEEE/ION Position, Location and Navigation Symposium (PLANS), Monterrey, Meksika, 23 - 26 Nisan 2018,
ss.715-729

- **ON ROBUSTNESS OF CONCURRENT LEARNING ADAPTIVE CONTROL TO TIME-VARYING DISTURBANCES AND SYSTEM UNCERTAINTIES**

Sarsilmaz S. B. , KUTAYA. T. , Yucelen T.

ASME International Mechanical Engineering Congress and Exposition, Tama, Japonya, 3 - 09 Kasım 2017

- **A Control System Architecture for Control of Non-Affine in Control, Open-Loop Unstable Underactuated Systems**

Marangoz A., KUTAYA. T.

8th International Conference on Mechanical and Aerospace Engineering (ICMAE), Prague, Çek Cumhuriyeti, 22 - 25 Temmuz 2017, ss.780-785

- **Attitude and Altitude Tracking of Hexacopter via LQR with Integral Action**

Suicmez E. C. , KUTAYA. T.

International Conference on Unmanned Aircraft Systems (ICUAS), Florida, Amerika Birleşik Devletleri, 13 - 16 Haziran 2017, ss.150-159

- **Estimation of Target Velocity under Scarce Range Information for IR Guided Missiles**

Babaoglu B. C. , KUTAYA. T.

IEEE Aerospace Conference, Montana, Amerika Birleşik Devletleri, 4 - 11 Mart 2017

- **Adaptive Control Algorithm for Linear Systems with Matched and Unmatched Uncertainties**

YAYLA M., KUTAYA. T.

55th IEEE Conference on Decision and Control (CDC), Nevada, Amerika Birleşik Devletleri, 12 - 14 Aralık 2016,
ss.2975-2980

- **Guaranteed Exponential Convergence without Persistent Excitation in Adaptive Control**

YAYLA M., KUTAYA. T.

11th UKACC International Conference on Control (UKACC Control), Belfast, İngiltere, 31 Ağustos - 02 Eylül 2016

- **Automatic Landing Flare Control Design by Model-Following Control and Flight Test on X-Plane Flight Simulator**

Cetin E., KUTAYA. T.

7th International Conference on Mechanical and Aerospace Engineering (ICMAE), London, Kanada, 18 - 20 Temmuz 2016, ss.416-420

- **Particle Filter Studies on Terrain Referenced Navigation**

Turan B., KUTAYA. T.

IEEE/ION Position, Location and Navigation Symposium (PLANS), Savannakhet, Laos, 11 - 14 Nisan 2016,
ss.949-954

- **Propulsion System Selection and Modeling for a Quadrotor with Search and Rescue Mission**

KAYA D., KUTAYA. T. , KURTULUŞ D. F. , TEKİNALP O., ŞİMŞEK İ., SOYSAL S., HOSGİT G.

54th AIAA Aerospace Sciences Meeting, San Diego, Amerika Birleşik Devletleri, 4 - 08 Ocak 2016

- **Capturability of Combined Augmented Proportional Navigation against a Pull-Up Maneuvering Target**

Nugroho L., KUTAYA. T.

IEEE International Conference on Aerospace Electronics and Remote Sensing Technology (ICARES), Balvi, Letonya, 3 - 05 Aralık 2015

- **Linear Analysis of Zero-Lift Pitching Moment Coefficient and Gravity Effects on Missile Autopilots**

Ovec N. T. , Erer K. S. , KUTAYA. T.

IEEE Aerospace Conference, Montana, Amerika Birleşik Devletleri, 7 - 14 Mart 2015

- **Robust Model Following Control Design for Missile Roll Autopilot**

Gezer R. B. , KUTAYA. T.

United-Kingdom-Automatic-Control-Council (UKACC) 10th International Conference on Control (CONTROL), Loughborough, İngiltere, 9 - 11 Temmuz 2014, ss.7-12

- **Optimal Path Tracking Control of a Quadrotor UAV**

Suicmez E. C. , KUTAYA. T.

International Conference on Unmanned Aircraft Systems (ICUAS), Florida, Amerika Birleşik Devletleri, 27 - 30 Mayıs 2014, ss.115-125

Atrflar

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