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International Researcher IDs

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Publons / Web Of Science ResearcherID: W-4920-2018

ScopusID: 10642297500

Yoksis Researcher ID: 164682

Education Information

Doctorate, Georgia Institute of Technology, Aerospace Engineering, United States Of America 2000 - 2005

Foreign Languages

English, C1 Advanced

Dissertations

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

Postgraduate, Modeling and simulation of the TÜRKSAT 1B satellite using artificial neural networks, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, 1999

Research Areas

Flight Dynamics and Stability, Performance, Flight Control Systems

Academic Titles / Tasks

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, 2018 - Continues

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, 2010 - 2018

Academic and Administrative Experience

Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, 2012 - 2015

Courses

ROBUST CONTROL IN AEROSPACE SYSTEMS, Postgraduate, 2022 - 2023

AUTOMATIC CONTROL SYSTEMS II, Undergraduate, 2022 - 2023

INTRODUCTION TO AIRCRAFT PERFORMANCE, Undergraduate, 2017 - 2018

SYSTEMS DYNAMICS, Undergraduate, 2018 - 2019

Advising Theses

KUTAY A. T., Kill analysis tool for missiles equipped with proximity fuzes, Postgraduate, E.ÖZTÜRK(Student), 2021

KUTAY A. T., Full Envelope Nonlinear Controller Design for a Novel Electric VTOL(eVTOL) Air-taxi via INDI Approach Combined with CA, Doctorate, E.CAN(Student), 2021

KUTAY A. T., ESTIMATION OF AERODYNAMIC LOADS OF A PROPELLER THROUGH IMPROVED BLADE ELEMENT AND MOMENTUM THEORY AND PROPELLER DESIGN OPTIMIZATION, Doctorate, D.DERYA(Student), 2021

Kutay A. T., Noise minimal & green trajectory and flight profile optimization for helicopters, Doctorate, A.YÜCEKAYALI(Student), 2020

Kutay A. T., Experimental design and statistical modeling for efficient wind tunnel testing, Postgraduate, Ö.SAVAŞ(Student), 2019

Kutay A. T., Multidisciplinary design, optimization and performance analysis tool for ballistic missiles, Postgraduate, M.AYŞE(Student), 2019

Kutay A. T., Time and state dependent parameterized model reference adaptive control, Postgraduate, Z.OKUMUŞ(Student), 2019

Kutay A. T., Physical subspace identification for helicopters, Doctorate, S.AVCIOĞLU(Student), 2019

Kutay A. T., MISSILE SYSTEM DESIGN AND OPTIMIZATION INTEGRATED WITH SYSTEM ENGINEERING METHODOLOGIES, Postgraduate, D.BAHÇECİ(Student), 2019

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

KUTAY A. T., System identification and control of a fixed wing aircraft by using flight data obtained from X-plane flight simulator, Postgraduate, E.ÇETİN(Student), 2018

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

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

KUTAY A. T., An active rocket launcher design for an attack helicopter, Postgraduate, T.BARAN(Student), 2018

KUTAY A. T., A robust altitude control approach for sea skimming missiles, Postgraduate, Ö.DÜLGAR(Student), 2018

KUTAY A. T., A model based approach for aircraft sensor fault detection, Postgraduate, Ö.SERÇEKMAN(Student), 2018

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

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

KUTAY A. T., Trajectory optimization of a tactical missile by usinggenetic algorithm, Postgraduate, B.DİLАН(Student), 2018

KUTAY A. T., Terrain referenced navigation of an aircraft using particle filter, Postgraduate, B.TURAN(Student), 2017

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

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

KUTAY A. T., Adaptive roll control of guided munitions, Postgraduate, N.TUĞÇE(Student), 2016

KUTAY A. T., Abrupt fault detection and accommodation for air data systems, Postgraduate, S.KARAHAN(Student), 2016

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

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

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

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

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

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

KUTAY A. T., Abrupt fault detection and accommodation for air data systems, Postgraduate, S.Karahan(Student), 2016

KUTAY A. T., Stochastic and deterministic analysis of nonlinear missile engagement scenarios using 5-dof 6-dof and adjoint models, Postgraduate, E.Sezer(Student), 2015

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

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

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

KUTAY A. T., Lyapunov based nonlinear impact angle guidance law for stationary targets, Postgraduate, H.JULAŞ(Student), 2015

KUTAY A. T., Fourier series based model reference adaptive control, Postgraduate, R.BERK(Student), 2014

KUTAY A. T., Adaptive robust attitude controller design for a quadrotor platform, Postgraduate, E.YILMAZ(Student), 2014

KUTAY A. T., Geometric tracking control of a fully actuated rigid body and applicatin to attitude control of a quadrotor UAV, Postgraduate, V.Bashiri(Student), 2014

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

KUTAY A. T., Modeling and experimental identification of quadrotor aerodynamics, Postgraduate, D.DERYA(Student), 2014

KUTAY A. T., Missile guidance with impact angle constraint, Postgraduate, B.ÇİLEK(Student), 2014

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

KUTAY A. T., Aerodynamic parameter estimation of a missile, Postgraduate, A.AKSU(Student), 2013

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

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

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

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

Published journal articles indexed by SCI, SSCI, and AHCI

- I. Full envelope nonlinear flight controller design for a novel electric VTOL (eVTOL) air taxi
Suiçmez E., Kutay A. T.
AERONAUTICAL JOURNAL, vol.1, pp.1-28, 2023 (SCI-Expanded)
- II. Optimization of reward shaping function based on genetic algorithm applied to a cross validated deep deterministic policy gradient in a powered landing guidance problem
Nugroho L., Andiarti R., Akmeliawati R., KUTAY A. T., Larasati D. K., Wijaya S. K.

- Engineering Applications of Artificial Intelligence, vol.120, 2023 (SCI-Expanded)
- III. Single channel digital controller design for a high spinning rate rolling airframe missile**
 Suicmez E. C., KUTAY A. T.
 AERONAUTICAL JOURNAL, vol.126, no.1305, pp.1815-1833, 2022 (SCI-Expanded)
- IV. Identification of Physical Helicopter Models Using Subspace Identification**
 Avcioglu S., KUTAY A. T., Leblebicioglu K.
 JOURNAL OF THE AMERICAN HELICOPTER SOCIETY, vol.65, no.2, 2020 (SCI-Expanded)
- V. 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 (SCI-Expanded)
- VI. Simulation of Rapidly Maneuvering Airfoils with Synthetic Jet Actuators**
 Jee S., Lopez Mejia O. D., Moser R. D., Muse J. A., KUTAY A. T., Calise A. J.
 AIAA JOURNAL, vol.51, no.8, pp.1883-1897, 2013 (SCI-Expanded)
- VII. Experimental results on adaptive output feedback control using a laboratory model helicopter**
 Kutay A. T., Calise A., Idan M., Hovakimyan N.
 IEEE TRANSACTIONS ON CONTROL SYSTEMS TECHNOLOGY, vol.13, no.2, pp.196-202, 2005 (SCI-Expanded)

Articles Published in Other Journals

- I. Hibrit hedef kestirim algoritması tasarımı**
 Kale S., KUTAY A. T.
 Havacılık ve Uzay Teknolojileri Dergisi, vol.7, no.2, pp.103-110, 2014 (Peer-Reviewed Journal)
- II. Dört rotorlu bir insansız hava aracının geri adımlama yöntemi ile yol takibi kontrolü**
 Emrecan S., KUTAY A. T.
 Havacılık ve Uzay Teknolojileri Dergisi, vol.7, no.2, pp.1-13, 2014 (Peer-Reviewed Journal)
- III. Flow simulation of a controlled airfoil with synthetic jet actuators**
 Jee S. K., Lopez O., Moser R. D., Kutay A. T., Muse J. A., Calise A. J.
 19th AIAA Computational Fluid Dynamics Conference, 2009 (Scopus)
- IV. Vortex model based adaptive flight control using synthetic jets**
 Muse J. A., Tchieu A. A., Kutay A. T., Chandramohan R., Calise A. J., Leonard A.
 AIAA Guidance, Navigation, and Control Conference and Exhibit, 2009 (Scopus)
- V. A novel force control traverse for simulating UAV flight in a wind tunnel**
 Muse J. A., Kutay A. T., Calise A. J.
 AIAA Atmospheric Flight Mechanics Conference and Exhibit, 2008 (Scopus)
- VI. Experimental trapped vorticity flight control using an augmenting error minimization adaptive law**
 Muse J. A., Kutay A. T., Calise A. J.
 AIAA Guidance, Navigation and Control Conference and Exhibit, 2008 (Scopus)

Books & Book Chapters

- I. Adaptive Neural Network Based Approach for Active Flow Control**
 Idan M., Calise A. J., KUTAY A. T., David E P.
 in: Manipulation and Control of Jets in Crossflow, Karagozian Ann R., Cortelezzi Luca, Soldati Alfredo, Editor,
 Springer-Verlag Wien, Viyana, pp.287-297, 2003

Refereed Congress / Symposium Publications in Proceedings

- I. **Quadcopter Guidance Law Design using Deep Reinforcement Learning**
Aydinli S. U., KUTAY A. T.
10th International Conference on Recent Advances in Air and Space Technologies, RAST 2023, İstanbul, Turkey, 7 - 09 June 2023
- II. **Comparison of Deep Reinforcement Learning-Based Guidance Strategies under Non-Ideal Conditions**
Aydinli S. U., KUTAY A. T.
9th International Conference on Control, Decision and Information Technologies, CoDIT 2023, Rome, Italy, 3 - 06 July 2023, pp.1524-1529
- III. **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
- IV. **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
- V. **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
- VI. **Implementation of physical subspace identification on a realistic helicopter**
Avcioğlu S., KUTAY A. T., Leblebicioğlu K.
AIAA Scitech Forum, 2019, California, United States Of America, 7 - 11 January 2019
- VII. **Multidisciplinary optimization and performance analysis tool for ballistic missiles**
Adsız M. A., KUTAY A. T.
AIAA Scitech Forum, 2019, California, United States Of America, 7 - 11 January 2019
- VIII. **Helicopter parameters estimation from subspace identification by constrained nonlinear optimization**
Avcioğlu S., KUTAY A. T., LEBLEBİCİOĞLU M. K., Özkanç Y., YAVRUCUK İ.
45th European Rotorcraft Forum 2019, ERF 2019, Warszawa, Poland, 17 - 20 September 2019, vol.2, pp.1001-1012
- IX. **Single hidden layer neural network based model reference adaptive controller for estimation of periodic disturbances**
Gezer R. B., KUTAY A. T.
AIAA Scitech Forum, 2019, California, United States Of America, 7 - 11 January 2019
- X. **A Model Based Approach for Sensor Fault Detection in Civil Aircraft Control Surface**
Sercekman O., KUTAY A. T.
IEEE/ION Position, Location and Navigation Symposium (PLANS), Monterrey, Mexico, 23 - 26 April 2018, pp.715-729
- XI. **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
- XII. **Reinforcement learning control for helicopter landing in autorotation**
Kopsa K., KUTAY A. T.
44th European Rotorcraft Forum 2018, ERF 2018, Delft, Netherlands, 18 - 21 September 2018, vol.2, pp.917-924
- XIII. **Experimental design and statistical modeling methodology for wind tunnel aerodynamics of an agile missile to improve the simulation accuracy and performance**
Savas O., Topbas E., Unal K., Karaca H. D., KUTAY A. T.
AIAA Modeling and Simulation Technologies Conference, 2018, Florida, United States Of America, 8 - 12 January 2018
- XIV. **ON ROBUSTNESS OF CONCURRENT LEARNING ADAPTIVE CONTROL TO TIME-VARYING**

DISTURBANCES AND SYSTEM UNCERTAINTIES

Sarsilmaz S. B., KUTAY A. T., Yucelen T.

ASME International Mechanical Engineering Congress and Exposition, Tama, Japan, 3 - 09 November 2017

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

Marangoz A., KUTAY A. T.

8th International Conference on Mechanical and Aerospace Engineering (ICMAE), Prague, Czech Republic, 22 - 25 July 2017, pp.780-785

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

Suicmez E. C., KUTAY A. T.

International Conference on Unmanned Aircraft Systems (ICUAS), Florida, United States Of America, 13 - 16 June 2017, pp.150-159

- XVII. **Experimental Investigation of Optimal Gap Distance between Rotors of a Quadrotor UAV**

KAYA D. D., KUTAY A. T., TEKİNALP O.

AIAA Aviation Forum 2017, Atmospheric Flight Mechanics Conference, 5 - 09 June 2017

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

Babaoglu B. C., KUTAY A. T.

IEEE Aerospace Conference, Montana, United States Of America, 4 - 11 March 2017

- XIX. **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

- XX. **Adaptive roll control of guided munitions with state independent uncertainty parameterization**

Ovec N. T., KUTAY A. T.

AIAA Guidance, Navigation, and Control Conference, 2017, Texas, United States Of America, 9 - 13 January 2017

- XXI. **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

- XXII. **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

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

Cetin E., KUTAY A. T.

7th International Conference on Mechanical and Aerospace Engineering (ICMAE), London, Canada, 18 - 20 July 2016, pp.416-420

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

Turan B., KUTAY A. T.

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

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

KAYA D., KUTAY A. T., KURTULUS D. F., TEKİNALP O., ŞİMŞEK İ., SOYSAL S., HOSGİT G.

54th AIAA Aerospace Sciences Meeting, San Diego, United States Of America, 4 - 08 January 2016

- XXVI. **Extended kalman filter based robust altitude controller for sea skimming missiles**

Dülgar Ö., Gezer R. B., KUTAY A. T.

AIAA Guidance, Navigation, and Control Conference, 2016, California, United States Of America, 4 - 08 January 2016

- XXVII. **Aerodynamic parameter estimation of a supersonic air to air missile with rapid speed variation**

Bayoglu T., Nalci M. O., KUTAY A. T.

AIAA Atmospheric Flight Mechanics Conference, 2016, California, United States Of America, 4 - 08 January 2016

- XXVIII. Design and control of a micro UAV**
 Kaya D., Büyükköçak A. T., KUTAY A. T., TEKİNALP O.
 AIAA Atmospheric Flight Mechanics Conference, 2016, California, United States Of America, 4 - 08 January 2016
- XXIX. An analysis of stochastic disturbances on nonlinear missile-target engagements based on the adjoint method**
 Sezer E., Nalci M. O., KUTAY A. T.
 AIAA Modeling and Simulation Technologies Conference, 2016, California, United States Of America, 4 - 08 January 2016
- XXX. Capturability of Combined Augmented Proportional Navigation against a Pull-Up Maneuvering Target**
 Nugroho L., KUTAY A. T.
 IEEE International Conference on Aerospace Electronics and Remote Sensing Technology (ICARES), Balvi, Latvia, 3 - 05 December 2015
- XXXI. 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
- XXXII. Modeling and Simulation of a Quadrotor using Curve Fitting Method**
 KAYA D. D., KUTAY A. T.
 AIAA Atmospheric Flight Mechanics Conference, Dallas, TX, United States Of America, 22 - 26 June 2015
- XXXIII. Calibration of Five Hole Probe with Redundant Coefficients**
 Karahan S., KUTAY A. T.
 31st AIAA Aerodynamic Measurement Technology and Ground Testing Conference, Dallas, TX, United States Of America, 22 - 26 June 2015
- XXXIV. A Comparative Study of a Pseudo Five Degree of Freedom and an Adjoint Model Against a Six Degree of Freedom Model for Fidelity Assessment**
 Sezer E., Nalci M. O., KUTAY A. T.
 AIAA Modeling and Simulation Technologies Conference, Dallas, TX, United States Of America, 22 - 26 June 2015
- XXXV. Finite Series Based Model Reference Adaptive Control**
 Rustu Berk G., KUTAY A. T.
 AIAA Atmospheric Flight Mechanics Conference, Dallas, TX, United States Of America, 22 - 26 June 2015
- XXXVI. Linear Analysis of Zero-Lift Pitching Moment Coefficient and Gravity Effects on Missile Autopilots**
 Ovec N. T., Erer K. S., KUTAY A. T.
 IEEE Aerospace Conference, Montana, United States Of America, 7 - 14 March 2015
- XXXVII. Analysis of five-hole probe calibration parameters**
 Karahan S., KUTAY A. T.
 31st AIAA Aerodynamic Measurement Technology and Ground Testing Conference, 2015, Texas, United States Of America, 22 - 26 June 2015
- XXXVIII. Robust Model Following Control Design for Missile Roll Autopilot**
 Gezer R. B., KUTAY A. T.
 United-Kingdom-Automatic-Control-Council (UKACC) 10th International Conference on Control (CONTROL), Loughborough, United Kingdom, 9 - 11 July 2014, pp.7-12
- XXXIX. Optimal Path Tracking Control of a Quadrotor UAV**
 Suicmez E. C., KUTAY A. T.
 International Conference on Unmanned Aircraft Systems (ICUAS), Florida, United States Of America, 27 - 30 May 2014, pp.115-125
- XL. Aerodynamic modeling and parameter estimation of a quadrotor helicopter**
 Kaya D., KUTAY A. T.
 AIAA AVIATION 2014 -AIAA Atmospheric Flight Mechanics Conference 2014, Atlanta, GA, United States Of America, 16 - 20 June 2014
- XLI. Adaptive robust attitude controller design for a quadrotor platform**
 Yilmaz E., KUTAY A. T.
 AIAA AVIATION 2014 -AIAA Atmospheric Flight Mechanics Conference 2014, Atlanta, GA, United States Of America,

16 - 20 June 2014

- XLII. **SYSTEM IDENTIFICATION AND CONTROLLER DEVELOPMENTFOR A SMALL TURBOJET ENGINE**
Ekinci S., KUTAY A. T., UZOL O., Yiğitürk M.
6th Ankara International Aerospace Conference, Turkey, 14 - 16 September 2011
- XLIII. **Dynamic flight maneuvering using trapped vorticity flow control**
Muse J. A., Kutay A. T., Brzozowski D. P., Culp J. R., Calise A. J., Glezer A.
46th AIAA Aerospace Sciences Meeting and Exhibit, Reno, NV, United States Of America, 7 - 10 January 2008
- XLIV. **A comparison of two novel direct adaptive control methods under actuator failure accommodation**
Kutay A. T., Chowdhary G., Calise A. J., Johnson E. N.
AIAA Guidance, Navigation and Control Conference and Exhibit, Honolulu, HI, United States Of America, 18 - 21 August 2008
- XLV. **Validation of a low-order model for closed-loop flow control enable flight**
Tchieu A. A., Kutay A. T., Muse J. A., Calise A. J., Leonard A.
4th AIAA Flow Control Conference, Seattle, WA, United States Of America, 23 - 26 June 2008
- XLVI. **Closed-loop aerodynamic flow control of a free airfoil**
Brzozowski D. P., Culp J. R., Kutay A. T., Muse J. A., Glezer A.
4th AIAA Flow Control Conference, Seattle, WA, United States Of America, 23 - 26 June 2008
- XLVII. **A Comparison of Select Direct Adaptive Control Methods Under Actuator Failure Accommodation**
KUTAY A. T., Chowdhary G., Calise A. J., Johnson E. N.
AIAA Guidance, Navigation and Control Conference and Exhibit, Honolulu, Hawaii, United States Of America, 18 - 21 August 2008
- XLVIII. **Validation of A Low Order Model for Closed Loop Flow Control Enabled Flight**
Tchieu A., KUTAY A. T., Muse J., Calise A. J., Leonard A.
4th Flow Control Conference, Seattle, Washington, United States Of America, 23 - 26 June 2008
- XLIX. **A closed-loop flight control experiment using active flow control actuators**
Kutay A. T., Culp J. R., Muse J. A., Brzozowski D. P., Glezer A., Calise A. J.
45th AIAA Aerospace Sciences Meeting 2007, Reno, NV, United States Of America, 8 - 11 January 2007, vol.2, pp.1289-1304
- L. **Adaptive longitudinal control of aircraft using synthetic jets**
Muse J. A., Kutay A. T., Calise A. J.
AIAA Guidance, Navigation, and Control Conference 2007, Hilton Head, SC, United States Of America, 20 - 23 August 2007, vol.3, pp.2594-2615
- LI. **A 1-DOF wind tunnel experiment in adaptive flow control**
Kutay A. T., Calise A. J., Muse J. A.
AIAA Guidance, Navigation, and Control Conference 2006, Keystone, CO, United States Of America, 21 - 24 August 2006, vol.5, pp.3017-3028
- LII. **"Adaptive Neural Network Based Control System Applications for Autonomous UAV**
YAVRUCUK İ., KUTAY A. T.
AIAC 2005, 10 - 12 September 2005
- LIII. **Distributed adaptive output feedback control design and application to a formation flight experiment**
Kutay A. T., Fowler J. M., Calise A. J., D'Andrea R.
AIAA Guidance, Navigation, and Control Conference 2005, San Francisco, CA, United States Of America, 15 - 18 August 2005, vol.7, pp.4953-4965
- LIV. **An adaptive guidance approach for spinning projectiles**
Calise A. J., El-Shirbiny H. A., Kim N., Kutay A. T.
Collection of Technical Papers - AIAA Guidance, Navigation, and Control Conference, Providence, RI, United States Of America, 16 - 19 August 2004, vol.5, pp.3226-3238
- LV. **Adaptive output feedback control with reduced sensitivity to sensor noise**
Kutay A. T., Calise A., Hovakimyan N.
Annual American Control Conference (ACC 2003), Colorado, United States Of America, 04 June 2003 - 06 June

2006, pp.5141-5146

- LVI. **Experimental results on adaptive output feedback control using a laboratory model helicopter**
Kutay A. T., Calise A. J., Idan M., Hovakimyan N.
AIAA Guidance, Navigation, and Control Conference and Exhibit 2002, Monterey, CA, United States Of America, 5 - 08 August 2002
- LVII. **NEURAL NETWORK BASED ORBIT PREDICTION FOR A GEOSTATIONARY SATELLITE**
KUTAY A. T., Yurdanur T., Tulunay E., TEKİNALP O.
Automatic Systems for Building the Infrastructure in Developing Countries 2001. Knowledge and Technology Transfer, Ohrid, Macedonia, 21 - 23 May 2001, pp.3-14

Tasks In Event Organizations

Kutay A. T., KAHVECİ H. S., 12th ANKARA INTERNATIONAL AEROSPACE CONFERENCE, Scientific Congress, Ankara, Turkey, Eylül 2023
Tekinalp O., Kutay A. T., Perçin M., VTOL Aircraft Competition, Dikine Kalkan İnsansız Hava Araçları Yarışması, Social Activities, Ankara, Turkey, Ekim 2019
Tekinalp O., Perçin M., Kutay A. T., METU VTOL Aircraft Competition 2, Social Activities, Ankara, Turkey, Ekim 2018

Metrics

Publication: 71
Citation (WoS): 157
Citation (Scopus): 444
H-Index (WoS): 6
H-Index (Scopus): 11

Non Academic Experience

Georgia Institute of Technology
Georgia Institute of Technology
Georgia Institute of Technology
METU