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Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AGR-4526-2022

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Education Information

Doctorate, Georgia Institute of Technology, Aerospace Engineering, United States Of America 1998 - 2003

Undergraduate, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, Turkey 1990 - 1995

Dissertations

Doctorate, Adaptive Limit Detection and Limit Avoidance, Georgia Institute Of Technology, Aerospace Engineering, 2003

Academic Titles / Tasks

Associate Professor, Middle East Technical University, Faculty of Engineering, 2013 - 2017

Assistant Professor, Middle East Technical University, Faculty of Engineering, 2005 - 2013

Lecturer PhD, Georgia Institute of Technology, Aerospace Engineering, 2003 - 2005

Research Assistant, Georgia Institute of Technology, Aerospace Engineering, 1998 - 2003

Research Assistant, Middle East Technical University, Faculty of Engineering, 1995 - 1996

Advising Theses

YAVRUCUK İ., Control allocation for a multi-rotor e-VTOL aircraft using blended-inverse, Postgraduate, E.AKSOY(Student), 2021

YAVRUCUK İ., Development of a flight envelope protection system for a helicopter in autorotation, Postgraduate, E.SELİN(Student), 2021

YAVRUCUK İ., Investigation of the star tracker algorithms and kalman filter integration, Postgraduate, S.SARGIN(Student), 2019

YAVRUCUK İ., Investigation of dynamic wake theory with run-time varying number of dynamic inflow states, Postgraduate, A.Karakaya(Student), 2019

YAVRUCUK İ., Surrogate model based system identification and control of gas turbine engines, Doctorate, S.EKİNCİ(Student), 2019

YAVRUCUK İ., Testing of a flight envelope protection system for fly-by-wire aerial vehicles, Postgraduate, B.Efe(Student), 2019

YAVRUCUK İ., Simulator based evaluation of adaptive envelope protection algorithms for active sidestick controllers, Postgraduate, Z.Ünal(Student), 2019

YAVRUCUK İ., Fault tolerant flight control applications for a fixed wing UAV using linear and nonlinear approaches, Postgraduate, B.ERGÖÇMEN(Student), 2019

YAVRUCUK İ., DYNAMIC MODELING, CONTROL AND ADAPTIVE ENVELOPE PROTECTION SYSTEM FOR HORIZONTAL AXIS WIND TURBINES, Doctorate, M.ŞAHİN(Student), 2018

LEBLEBİCİOĞLU M. K., YAVRUCUK İ., Control and guidance of a multi-mode unmanned aerial vehicle for increased versatility, Doctorate, F.ÇAKICI(Student), 2016

YAVRUCUK İ., Comparison of rotor inflow models for flight simulation fidelity, Postgraduate, F.GÜNER(Student), 2016

YAVRUCUK İ., Development of an intelligent model prediction controller for autonomous helicopters, Postgraduate, Ş.ESER(Student), 2016

YAVRUCUK İ., Direct adaptive flight envelope protection, Doctorate, G.GÜRSOY(Student), 2016

YAVRUCUK İ., Dynamic modelling and simulation of a wind turbine, Postgraduate, A.HAZAL(Student), 2015

TEKİNALP O., YAVRUCUK İ., Developing an investment decision methodology for helicopter systems related to technology factor and base price, Postgraduate, G.KARA(Student), 2014

YAVRUCUK İ., Kalman filter based applications for helicopters, Postgraduate, M.OKATAN(Student), 2014

YAVRUCUK İ., A reactionary obstacle avoidance algorithm for autonomous vehicles, Postgraduate, G.YÜCEL(Student), 2012

YAVRUCUK İ., Controller design and simulation for a helicopter during target engagement, Postgraduate, S.AVCIOĞLU(Student), 2011

TEKİNALP O., YAVRUCUK İ., Development of a UAV testbed, Postgraduate, Z.ÇAKIR(Student), 2011

YAVRUCUK İ., Adaptive control of guided missiles, Doctorate, K.TİRYAKI(Student), 2010

YAVRUCUK İ., Neural network based online estimation of maneuvering steady states and control limits, Postgraduate, G.GÜRSOY(Student), 2010

TEKİNALP O., YAVRUCUK İ., Development of control allocation methods for satellite attitude control, Postgraduate, T.ÇİĞDEM(Student), 2010

YAVRUCUK İ., A probabilistic conceptual design and sizing approach for a helicopter, Postgraduate, S.SELVİ(Student), 2010

YAVRUCUK İ., Adaptation of a control system to varying missile configurations, Postgraduate, Ö.EKİNCİ(Student), 2009

TEKİNALP O., YAVRUCUK İ., Multidisciplinary and multiobjective design optimization of an unmanned combat aerial vehicle (UCAV), Postgraduate, N.ÇAVUŞ(Student), 2009

YAVRUCUK İ., Adaptive neural network applications on missile controller design, Postgraduate, S.SAĞIROĞLU(Student), 2009

YAVRUCUK İ., Adaptive controller applications for rotary wing aircraft models of varying simulation fidelity, Postgraduate, O.TARIMCI(Student), 2009

YAVRUCUK İ., Mathematical model development of the anti torque system of a NOTAR helicopter, Postgraduate, H.MURAT(Student), 2008

YAVRUCUK İ., Evaluation and comparison of helicopter simulation models with different fidelities, Postgraduate, D.YILMAZ(Student), 2008

YAVRUCUK İ., Design of an autonomous landing control algorithm for a fixed wing UAV, Postgraduate, V.Kargın(Student), 2007

YAVRUCUK İ., Design of an autonomous landing control algorithm for a fixed wing unmanned aerial vehicle (UAV), Postgraduate, V.KARGIN(Student), 2007

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Adaptive envelope protection control of wind turbines under varying operational conditions**
ŞAHİN M., YAVRUCUK İ.
Energy, vol.247, 2022 (SCI-Expanded)
- II. **Fast engine model for FMU-less small turbojet engines**

Ekinci S., YAVRUCUK İ.

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART G-JOURNAL OF AEROSPACE ENGINEERING, vol.234, no.2, pp.416-427, 2020 (SCI-Expanded)

- III. **Direct Adaptive Limit and Control Margin Estimation with Concurrent Learning**
Gursoy G., YAVRUCUK İ.
JOURNAL OF GUIDANCE CONTROL AND DYNAMICS, vol.39, no.6, pp.1356-1373, 2016 (SCI-Expanded)
- IV. **Concurrent Learning Enabled Adaptive Limit Detection for Active Pilot Cueing**
Gursoy G., YAVRUCUK İ.
JOURNAL OF AEROSPACE INFORMATION SYSTEMS, vol.11, no.9, pp.542-550, 2014 (SCI-Expanded)
- V. **Mathematical Modeling of the NOTAR Antitorque System for Flight Simulation**
YAVRUCUK İ., Bakir H. M., UZOL O.
JOURNAL OF THE AMERICAN HELICOPTER SOCIETY, vol.58, no.2, 2013 (SCI-Expanded)
- VI. **Online Dynamic Trim and Control Limit Estimation**
YAVRUCUK İ., Prasad J. V. R.
JOURNAL OF GUIDANCE CONTROL AND DYNAMICS, vol.35, no.5, pp.1647-1656, 2012 (SCI-Expanded)
- VII. **A Low Cost Flight Simulator Using Virtual Reality Tools**
YAVRUCUK İ., Kubali E., Tarimci O.
IEEE AEROSPACE AND ELECTRONIC SYSTEMS MAGAZINE, vol.26, no.4, pp.10-14, 2011 (SCI-Expanded)
- VIII. **Flight Evaluation of a Reactionary Envelope Protection System for UAVs**
Unnikrishnan S., Prasad J. V. R., YAVRUCUK İ.
JOURNAL OF THE AMERICAN HELICOPTER SOCIETY, vol.56, no.1, 2011 (SCI-Expanded)
- IX. **Flight Evaluation of Reactionary Envelope Protection System**
YAVRUCUK İ.
Journal of the American Helicopter Society, 2011 (SCI-Expanded)
- X. **Panel-Method-Based Path Planning and Collaborative Target Tracking for Swarming Micro Air Vehicles**
Uzol O., Yavrucuk İ., Sezer Uzol N.
JOURNAL OF AIRCRAFT, vol.47, no.2, pp.544-550, 2010 (SCI-Expanded)
- XI. **Envelope Protection for Autonomous Unmanned Aerial Vehicles**
YAVRUCUK İ., Prasad J. V. R., Unnikrishnan S.
JOURNAL OF GUIDANCE CONTROL AND DYNAMICS, vol.32, no.1, pp.248-261, 2009 (SCI-Expanded)

Articles Published in Other Journals

- I. **Adaptive Envelope Protection Control for the below and above Rated Regions of Wind Turbines**
Şahin M., Yavrucuk İ.
International Journal of Energy and Power Engineering, vol.14, no.10, pp.275-283, 2020 (Peer-Reviewed Journal)
- II. **Paraşüt-Yük Sistemleri Dinamik Modellenmesi ve Yol-Takibi**
Gürsoy G., YAVRUCUK İ.
Elektrik Elektronik Bilgisayar ve Biomedical Mühendisliği, 2013 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Experimental Evaluation of Panel-Method-Based Path Planning for eVTOL in A Scaled Urban Environment**
BİLGİN Z., Bronz M., YAVRUCUK İ.
78th Vertical Flight Society Annual Forum and Technology Display, FORUM 2022, Texas, United States Of America, 10 - 12 May 2022
- II. **Experimental Evaluation of Robustness of Panel-Method-Based Path Planning for Urban Air Mobility**

BİLGİN Z., BRONZ M., YAVRUCUK İ.

AIAA AVIATION 2022 Forum, Illinois, United States Of America, 27 June - 01 July 2022

- III. **Control Allocation Strategies for a Hybrid Controlled Missile with NDI Autopilot**
Biyikli R., Tekin R., YAVRUCUK İ.
13th Asian Control Conference, ASCC 2022, Jeju, South Korea, 4 - 07 May 2022, pp.1782-1787
- IV. **Rüzgar Türbinleri için Yenilikçi Uyarlanabilir bir Zarf Koruma Sisteminin Geliştirilmesi ve Farklı Rotor Çaplarındaki Türbinler Üzerinde Simülasyon Testleri**
ŞAHİN M., YAVRUCUK İ.
6. İzmir Rüzgar Sempozyumu, İzmir, Turkey, 23 September 2021
- V. **An Algorithm for Wind Turbine Protection under Iced Rotor Blades**
ŞAHİN M., YAVRUCUK İ.
11th Ankara International Aerospace Conference, Ankara, Turkey, 08 September 2021
- VI. **Linear model identification for rotorcraft using adaptive learning**
Gursoy G., Aslandogan O. H., YAVRUCUK İ.
77th Annual Vertical Flight Society Forum and Technology Display: The Future of Vertical Flight, FORUM 2021, Virtual, Online, 10 - 14 May 2021
- VII. **Panel-method-based path planning for eVTOL in urban environment**
ÜNAL Z., YAVRUCUK İ.
77th Annual Vertical Flight Society Forum and Technology Display: The Future of Vertical Flight, FORUM 2021, Virtual, Online, 10 - 14 May 2021
- VIII. **Simulation model fidelity enhancement using corrective force and moment increments: Review of activity performed in NATO-AVT Panel 296**
Taghizad A., White M., Cameron N., Padfield G., YAVRUCUK İ., Myrand-Lapierre V., Nadeau-Beaulieu M., Richard S., Tischler M.
77th Annual Vertical Flight Society Forum and Technology Display: The Future of Vertical Flight, FORUM 2021, Virtual, Online, 10 - 14 May 2021
- IX. **Adaptive Envelope Protection Control for the Below and Above Rated Regions of Wind Turbines, BEST PAPER AWARD**
ŞAHİN M., YAVRUCUK İ.
XIV International Conference on Wind Energy Engineering and Applications, Paris, France, 27 - 28 August 2020
- X. **Active Hybrid Fault Tolerant Flight Control of an UAV under Control Surface Damage**
Ergocmen B., YAVRUCUK İ.
American Control Conference (ACC), Colorado, United States Of America, 1 - 03 July 2020, pp.4169-4174
- XI. **Rüzgar Türbini Kanat Yunuslama Açısı Kontrolcüsü Tasarımı Ve Performans Analizi**
ŞAHİN M., YAVRUCUK İ.
5. İzmir Rüzgar Sempozyumu, İzmir, Turkey, 3 - 05 October 2019
- XII. **Yatay Eksenli Rüzgâr Türbinleri İçin Gürbüz Tasarım Yöntemi**
ALTUĞ YALÇIN A. H., YAVRUCUK İ., UZOL O.
5. İzmir Rüzgar Sempozyumu ve Sergisi, Turkey, 3 - 05 October 2019
- XIII. **Performance Comparison of two turbine blade pitch controller design methods based on equilibrium and frozen wake assumption,**
ŞAHİN M., YAVRUCUK İ.
10th ANKARA INTERNATIONAL AEROSPACE CONFERENCE (AIAC 2019), Ankara, Turkey, 18 - 20 September 2019
- XIV. **Sensitivity of Load and Power Responses to Blade Chord and Twist Distributions for Various Inflow Turbulence Conditions**
ALTUĞ YALÇIN A. H., YAVRUCUK İ., UZOL O.
Wind Energy Science Conference WESC 2019, 17 - 20 June 2019
- XV. **Helicopter parameters estimation from subspace identification by constrained nonlinear optimization**
Avcıoğlu S., KUTAY A. T., LEBLEBİCİOĞLU M. K., Özkazanç Y., YAVRUCUK İ.
45th European Rotorcraft Forum 2019, ERF 2019, Warszawa, Poland, 17 - 20 September 2019, vol.2, pp.1001-

- XVI. **Rüzgar Türbinlerinin Dinamik Modellenmesinde Belirli Parametrelerin Güç Eğrisi Tahminine Etkilerinin İncelenmesi**
ŞAHİN M., YAVRUCUK İ.
9. Yenilenebilir Enerji Kaynakları Sempozyumu ve Sergisi, Antalya, Turkey, 03 November 2017
- XVII. **Dynamical Modeling of a Horizontal Axis Wind Turbine System with Precone and Tilt Angles**
ŞAHİN M., YAVRUCUK İ.
9TH ANKARA INTERNATIONAL AEROSPACE CONFERENCE (AIAC 2017), Ankara, Turkey, 20 - 22 September 2017
- XVIII. **Değişken Hızlı Rüzgar Türbinlerinin Kısmı ve Tam Yük Bölgeleri için Kontrolcü Tasarımı**
ŞAHİN M., YAVRUCUK İ.
9. YENİLENEBİLİR ENERJİ KAYNAKLARI SEMPOZYUMU VE SERGİSİ, Antalya, Turkey, 3 - 05 November 2017
- XIX. **Development of an Intelligent Least Squares Based Linear Controller for Autonomous Helicopters**
Kubali E., YAVRUCUK İ.
International Conference on Unmanned Aircraft Systems (ICUAS), Virginia, United States Of America, 7 - 10 June 2016, pp.242-251
- XX. **Development and Testing of a Fuzzy Logic Controller for a Small Turbojet Engine**
ekinci s., üşenmez s., YAVRUCUK İ., UZOL O.
AIAA SciTech 2016, San Diego, California, USA, 4 - 08 January 2016
- XXI. **Engine Limit Detection and Avoidance for Helicopters with Multiple Limits**
YAVRUCUK İ.
Proceedings of AIAA Atmospheric Flight Mechanics Conference, 19 - 22 January 2015
- XXII. **A Non-Iterative Direct Approach to Adaptive Limit and Control Margin Estimation**
YAVRUCUK İ.
Proceedings of AIAA Scitech Conference, 5 - 09 January 2015
- XXIII. **Kalman Filter Based Modification on Helicopter Adaptive Control**
YAVRUCUK İ.
AIAA Scitech Conference, 5 - 09 January 2015
- XXIV. **APPLICATION OF A FUZZY LOGIC CONTROLLER FOR SPEED CONTROL ON A SMALL-SCALE TURBOJET ENGINE**
Usenmez S., Ekinci S., UZOL O., YAVRUCUK İ.
ASME Turbo Expo: Turbine Technical Conference and Exposition, Düsseldorf, Germany, 16 - 20 June 2014
- XXV. **Helicopter Slung Load Simulations Using Heli-Dyn+**
YAVRUCUK İ.
AIAA Modeling and Simulation Technologies Conference, 13 August 2013 - 16 August 2012
- XXVI. **Helikopter Simülatörleri için Dinamik Turboşaft Motor Modeli Geliştirilmesi ve Simülatöre Entegrasyonu**
UZOL O., YAVRUCUK İ.
USMOS 2013, Turkey, 11 - 12 June 2013
- XXVII. **Helikopter Otopilotları için Yaklaşma Üst Modu Tasarımı ve Simülasyonu**
YAVRUCUK İ.
UMOS 2013, Turkey, 11 - 12 June 2013
- XXVIII. **Online Detection and Avoidance of Helicopter TGT Limits**
YAVRUCUK İ.
Proceedings of 69th American Helicopter Society Forum, 21 - 23 May 2013
- XXIX. **"Design of a Waypoint Tracking Control Algorithm for Parachute Payload Systems**
YAVRUCUK İ.
2013 2nd CEAS Specialist Conference on Guidance, Navigation & Control, 10 April 2013
- XXX. **Paraşüt-Yük Sistemlerinin Dinamik Modellenmesi ve Nokta Kontrolü**
YAVRUCUK İ.
SAVTEK Konferansı, Turkey, 20 - 22 June 2012
- XXXI. **Heli-Dyn+ Kullanılarak Helikopter-Yük Sistemi Simülasyonlarının Gerçeklenmesi**

- YAVRUCUK İ.
SAVTEK 2012, Turkey, 20 - 22 June 2012
- XXXII. **Heli-Dyn+ Kullanılarak Helikopter için Kontrolcü Geliştirilmesi**
YAVRUCUK İ.
SAVTEK 2012, Turkey, 20 - 22 June 2012
- XXXIII. **A Strategy Development Approach for a Small General Aviation Helicopter Program**
YAVRUCUK İ.
AIAC 2011, Turkey, 14 - 16 September 2011
- XXXIV. **Limit Margin Prediction For Helicopters Using Long Term Learning Adaptive Neural Networks**
YAVRUCUK İ.
European Rotorcraft Forum, 13 - 15 September 2011
- XXXV. **Fault Tolerant Control of an Over Actuated UAV**
TEKİNALP O., YAVRUCUK İ.
AIAAGuidance, Navigation, and Control Conference, 8 - 11 July 2011
- XXXVI. **Dynamic Inversion Based Control of a Missile with L1 Adaptive Control Augmentation**
Kutluay K. T., YAVRUCUK İ.
IEEE International Conference on Control Applications Part of 2010 IEEE Multi-Conference on Systems and Control, Yokohama, Japan, 8 - 10 September 2010, pp.2374-2379
- XXXVII. **Long Term Learning Adaptive Neural Network Estimator Based Limit Detection**
YAVRUCUK İ.
IFAC Adaptation and Learning in Control and Signal Processing (ALCOSP) Conference, Turkey, 26 August - 28 October 2010
- XXXVIII. **Concurrent Learning Enabled Adaptive Limit Detection for Active Pilot Cueing**
YAVRUCUK İ.
AIAA Guidance, Navigation and Control Conference, 2 - 05 August 2010
- XXXIX. **İnsansız Helikopterin Uçuş Kontrol Algoritmalarının Geliştirilmesi için Test Platformu Çalışmaları**
YAVRUCUK İ.
SAVTEK 2010, Turkey, 23 - 25 June 2010
- XL. **Entegre bir Helikopter Dinamik Modelleme, Simülasyon ve Analiz Ortamı**
YAVRUCUK İ.
SAVTEK 2010, Turkey, 23 - 25 June 2010
- XLI. **Mathematical Modeling of the NOTAR Anti-Torque System for Flight Simulation**
YAVRUCUK İ., UZOL O.
66th AHS Annual Forum, 11 - 13 May 2010
- XLII. **Adaptive control augmentation of a missile**
Kutluay K. T., Yavrucuk I.
10th IFAC International Workshop on Adaptation and Learning in Control and Signal Processing, ALCOSP 2010, Antalya, Turkey, 26 - 28 August 2010, vol.1, pp.77-82
- XLIII. **A new helicopter simulation and analysis tool: Helidyn**
Yavrucuk I., Tarimci O., Katircioglu M., Kubali E., Yilmaz D.
36th European Rotorcraft Forum, ERF 2010, Paris, France, 7 - 09 September 2010, vol.2, pp.997-1003
- XLIV. **Cooperation of three UAV's for Aerial Rescue and Aerial Retrieval**
ERKMEN A. M., YAVRUCUK İ., cakir z.
ICAST 09, IEEE International Conference on Adaptive Science and Technology, 14 - 16 December 2009
- XLV. **Helicopter Design for Handling Qualities Enhancement**
YAVRUCUK İ.
European Rotorcraft Forum, 22 - 25 September 2009
- XLVI. **Flight Control System Design for an Unmanned Air Vehicle**
YAVRUCUK İ.
AIAC 2009, 17 - 19 August 2009
- XLVII. **The SCALAB Virtual Reality Simulator**

- YAVRUCUK İ.
AIAC 2009, 17 - 19 August 2009
- XLVIII. **Adaptive Neural Network Applications on Missile Controller Design**
YAVRUCUK İ.
AIAC 2009, 17 - 19 August 2009
- XLIX. **Development of Complementary Helicopter Handling Qualities Criteria Based on Performance and Vibratory Loads**
YAVRUCUK İ.
AIAC 2009, 17 - 19 August 2009
- L. **Helicopter Flight Simulation and Automatic Flight Control System Design**
TEKİNALP O., YAVRUCUK İ.
AIAC 2009, 17 - 19 August 2009
- LI. **Helicopter Sizing for the Turkish Market Using Concurrent Engineering Tools**
YAVRUCUK İ.
AIAC 2009, Turkey, 17 - 19 August 2009
- LII. **Flight Control System Design and Integration for a Small UAV Test Bed**
TEKİNALP O., YAVRUCUK İ.
AIAC 2009, 17 - 19 August 2009
- LIII. **Simulation and Flight Control of a Tilt Duct UAV**
TEKİNALP O., ÜNLÜ T., YAVRUCUK İ.
Modeling and Simulation Technologies Conference, Chicago, United States Of America, 10 - 12 August 2009
- LIV. **A Low Cost Flight Simulator Using Virtual Reality Tools**
YAVRUCUK İ.
AIAA Modelling and Simulation Conference, 10 - 13 August 2009
- LV. **Gimbal Angle Restricted Control Moment Gyroscope Clusters**
TEKİNALP O., Elmas T., YAVRUCUK İ.
4th International Conference on Recent Advances in Space Technologies, İstanbul, Turkey, 11 - 13 June 2009, pp.585-590
- LVI. **A robust design optimization of a mixed-flow compressor impeller**
Çevik M., UZOL O., YAVRUCUK İ.
ASME Turbo Expo 2009: Power for Land, Sea, and Air, 8 - 12 June 2009
- LVII. **Cooperation Control of Three UAVs for Aerial Rescue and Aerial Retrieval**
YAVRUCUK İ.
International Conference on Adaptive Science&Technology, 14 - 16 January 2009
- LVIII. **Helikopterler için Sinir Ağı Tabanlı Adaptif Kontrolcü Tasarımında Ağırlık erkezi Modelleme Hatasının Önemi**
YAVRUCUK İ.
TOK, Turkey, 13 - 15 November 2008
- LIX. **Autolandng Strategies for a Fixed Wing UAV in Adverse Atmospheric Conditions**
YAVRUCUK İ.
AIAA Guidance, Navigation and Control Conference and Exhibit, Honolulu, Hawaii, 18 - 21 August 2008
- LX. **Simulation of the Transient Response of a Helicopter Turboshaft Engine to Hot-Gas Ingestion**
UZOL O., YAVRUCUK İ.
ASME Turbo Expo 2008, 9 - 13 June 2008
- LXI. **On the Level of Center of Gravity Modeling Error in Neural Network Based Adaptive Controller Design**
YAVRUCUK İ.
European Rotorcraft Forum, 1 - 02 June 2008
- LXII. **Development of A Flight Dynamics Model For A UH-1H Helicopter Simulator**
YAVRUCUK İ.
AIAC 2007, 10 - 12 September 2007

- LXIII. **Development of A Flight Control System For A UAV In Autonomous Landing**
YAVRUCUK İ.
AIAC 2007, 10 - 12 September 2007
- LXIV. **"Simulation Evaluation of A Flight Control System for An Autonomous Fullsize Helicopter**
YAVRUCUK İ.
AIAC 2007, 10 - 12 September 2007
- LXV. **"Sürü Halinde Uçan Mikro Hava Araçları için Akışkanlar Mekaniği Tabanlı Güzergah Belirleme Yöntemi**
UZOL O., YAVRUCUK İ.
TOK, Turkey, 5 - 07 September 2007
- LXVI. **A Multi-Purpose Helicopter Technology Demonstrator for Engineering Students**
YAVRUCUK İ.
AIAA Modeling and Simulation Technologies Conference and Exhibit, Hilton Head, South Carolina, 20 - 23 August 2007
- LXVII. **Panel Method-Based Motion Planning for Swarming MAVs with Probabilistic Target Tracking**
YAVRUCUK İ., UZOL O.
AIAA Guidance, Navigation and Control Conference and Exhibit, Hilton Head, South Carolina, 20 - 23 August 2007
- LXVIII. **"Dağıtık Uçuş Sistemlerinin Komuta Kontrol Tasarımı ve Geliştirilmesi için Simulasyon Tabanlı Test Platformu Yazılımı F-SIM**
YAVRUCUK İ.
USMOS, 18 - 19 April 2007
- LXIX. **İki Kisilik Turbin Motorlu Bir Eğitim Helikopterin Konsept Tasarımı 1. Kısım: METUCOPTER**
YAVRUCUK İ.
UHUK 2006, Turkey, 21 September - 23 June 2006
- LXX. **Ulusal İnsansız Muharip Hava Aracı (İmha) İhtiyacında Etkin Sistem Tasarımı ve İtke Alt Sisteminin Değerlendirilmesi**
YAVRUCUK İ., UZOL O.
SAVTEK 2006, Turkey, 29 - 30 June 2006
- LXXI. **İnsansız Hava Araçlarının Komuta Kontrol Sistemleri Tasarımı ve Geliştirilmesi için Simulasyon Tabanlı Test Platformu**
YAVRUCUK İ.
SAVTEK 2006, Turkey, 29 - 30 June 2006
- LXXII. **"Adaptive Neural Network Based Control System Applications for Autonomous UAV**
YAVRUCUK İ., KUTAY A. T.
AIAC 2005, 10 - 12 September 2005
- LXXIII. **Application of Software Enabled Control Technologies to a Full-Scale Unmanned Helicopter**
YAVRUCUK İ.
AIAA Atmospheric Flight Mechanics Conference and Exhibit, San Francisco, California, 15 - 18 August 2005
- LXXIV. **Simulation Based Envelope Protection Systems for Unmanned Rotorcraft**
YAVRUCUK İ.
AHS Specialists Meeting on Unmanned Rotorcraft, 18 - 20 January 2005
- LXXV. **Adaptive Limit Margin Prediction and Control Cueing for Carefree Maneuvering of VTOL Aircraft**
YAVRUCUK İ.
AHS Flight Controls and Crew System Design Technical Specialist Meeting, 1 - 05 October 2002
- LXXVI. **Adaptive Limit Prediction and Avoidance for Rotorcraft**
YAVRUCUK İ.
28th European Rotorcraft Forum, 17 - 20 August 2002
- LXXVII. **Carefree Maneuvering using Adaptive Neural Nets**
YAVRUCUK İ.
AIAA Atmospheric Flight Mechanics Conference, 5 - 08 August 2002
- LXXVIII. **Carefree Maneuvering Using Neural Networks**

- YAVRUCUK İ.
AIAA Atmospheric Flight Mechanics Conference and Exhibit, 5 - 08 August 2002
- LXXIX. **Limit Detection and Avoidance for Heli UAVs**
YAVRUCUK İ.
57th AHS Annual Forum, 1 - 05 May 2001
- LXXX. **Reconfigurable Flight Controller for Extreme Maneuvering of Heli-UAVs**
YAVRUCUK İ.
AIAA Modeling and Simulation Technologies Conference, 01 August 2000 - 05 January 2008
- LXXXI. **Automatic Limit Detection and Avoidance**
YAVRUCUK İ.
AHS Aeromechanics Specialists Meeting, 1 - 05 January 2000
- LXXXII. **Reconfigurable Flight Control Using RPM Control For Heli-UAVs**
YAVRUCUK İ.
25. European Rotorcraft Forum, 1 - 07 September 1999
- LXXXIII. **Simulation and Flight Control Integration Using the Open Control Platform for Unmanned Aerial Vehicles**
YAVRUCUK İ.
18th AIAA Digital Avionics Conference, 01 August 1999
- LXXXIV. **Simulation of reconfigurable Heli-UAV's using main rotor RPM control in failure modes**
YAVRUCUK İ.
Modeling and Simulation Technologies Conference and Exhibit, Portland,OR,U.S.A., 1 - 07 August 1999
- LXXXV. **Georgia Tech UAV Software Systems**
YAVRUCUK İ.
AUVSI Proceedings, 1 - 05 January 1999
- LXXXVI. **Computer Simulation of Selected Failure Modes and Operational Conditions for Rotorcraft**
YAVRUCUK İ.
Heli Japan 98 Conference, 21 - 23 April 1998

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