

Prof. TUĞRUL OKTAY



Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAE-2053-2020

ScopusID: 55334339800

Yoksis Researcher ID: 33037

Education Information

Doctorate, Virginia Polytechnic Institute and State University, Randolph Hall, Aerospace Engineering (Fastest Degree Ever Received-Havacılık ve Uzay Mühendisliği), United States Of America 2009 - 2012

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Uçak Ve Uzay Mühendisliği (Possible Fastest Degree Received), Turkey 2007 - 2008

Undergraduate, Istanbul Technical University, Uçak Ve Uzay Bilimleri Fakültesi, Uçak Mühendisliği, Turkey 2003 - 2007

Foreign Languages

English, C1 Advanced

German, A1 Beginner

Certificates, Courses and Trainings

Education Management and Planning, TRL THS Seviyeleri, ERÜ Teknopark, 2018

Education Management and Planning, Horizon 2020 SME Instrument Uygulamalı Proje Yazma Eğitimi, KAYSO, 2018

Occupational Health and Safety, İşveren iş sağlığı ve güvenliği uzmanı, AÖF, 2017

Education Management and Planning, Kobi Mentörü, Tübitak, 2017

Education Management and Planning, Uygulamalı Girişimcilik Sertifikası, Kosgeb, 2017

Education Management and Planning, Mühendislik Bilimlerinde Araştırma Projesi Hazırlama ve Yürütme Eğitimi, Tübitak, 2014

Dissertations

Doctorate, Constrained Control of Complex Helicopter Models; Advisor: Professor Cornel Sultan, Virginia Polytechnic Institute and State University, Randolph Hall, Aerospace and Ocean Engineering, 2012

Postgraduate, Vibration Analysis and System Control of Aeronautical Structures; Danışman: Prof. Dr. Metin Orhan KAYA,

Research Areas

Information Systems, Communication and Control Engineering, Control and System Engineering, Optimal Control, Signal Processing, Image and Video Processing, Mechanical Engineering, Machine Theory and Dynamics, System Dynamics and Control, Modeling and Simulation of Dynamic Systems, Mechanical Vibrations, Aeronautical and Space Engineering, Aeronautical Engineering, Space Engineering, Flight Sciences, Aircraft System Technologies, Structural control, Flight Dynamics and Stability, Performance, Flight Control Systems, Engineering and Technology

Academic Titles / Tasks

Professor, Erciyes University, Havacılık ve Uzay Bilimleri Fakültesi, Uçak Mühendisliği, 2021 - Continues
Associate Professor, Erciyes University, Havacılık ve Uzay Bilimleri Fakültesi, Uçak Mühendisliği, 2016 - 2021
Assistant Professor, Erciyes University, Havacılık ve Uzay Bilimleri Fakültesi, Uçak Mühendisliği, 2014 - 2016
Assistant Professor, Erciyes University, Sivil Havacılık Yüksekokulu, Uçak Gövde-Motor, 2013 - 2014
Lecturer PhD, Erciyes University, Sivil Havacılık Yüksekokulu, Uçak Gövde-Motor, 2012 - 2013

Academic and Administrative Experience

Fakülte Yönetim Kurulu Üyesi, Erciyes University, Havacılık ve Uzay Bilimleri Fakültesi, Uçak Mühendisliği, 2015 - Continues
Head of Department, Erciyes University, Havacılık ve Uzay Bilimleri Fakültesi, Uçak Mühendisliği, 2018 - 2020
Head of Department, Erciyes University, Havacılık ve Uzay Bilimleri Fakültesi, Uçak Mühendisliği, 2016 - 2020

Courses

Materials and Hardware of Aircraft, Undergraduate, 2018 - 2019
İleri Uçuş Bilimleri (Uçak Müh. ABD), Postgraduate, 2018 - 2019
Bilgisayar Programlama, Undergraduate, 2018 - 2019, 2017 - 2018
Uçuş Mekaniğinde Optimizasyon Uygulamaları, Doctorate, 2018 - 2019
Uçak Mühendisliğine Giriş, Undergraduate, 2018 - 2019, 2017 - 2018
İleri Uçuş Dinamiği ve Kontrolü, Postgraduate, 2017 - 2018
Aerodinamik, Undergraduate, 2017 - 2018
Dinamik Sistemlerin Modellenmesi, Doctorate, 2017 - 2018
İleri Uçuş Mekaniği (Uçak Müh. ABD), Postgraduate, 2018 - 2019
Akışkanlar Mekaniği, Undergraduate, 2018 - 2019
Aerodinamik, Undergraduate, 2016 - 2017
İleri helikopter teorisi ve sistemleri, Postgraduate, 2017 - 2018
Uçuş Mekaniğinde Optimizasyon Yöntemleri, Postgraduate, 2016 - 2017
Hava Aracı İleri Kontrol Sistemleri, Doctorate, 2016 - 2017
Gerçek Zamanlı Kontrol, Doctorate, 2017 - 2018
Otomatik Kontrol, Doctorate, 2015 - 2016
Pervane, Undergraduate, 2016 - 2017, 2015 - 2016
Helikopter Stabilite ve Kontrolü, Doctorate, 2016 - 2017
Aerodinamik, Undergraduate, 2015 - 2016
Hava Aracı Hidrolik ve Pnömatik Sistemleri, Undergraduate, 2015 - 2016
Uçuş Mekaniğinde Optimizasyon Yöntemleri, Postgraduate, 2015 - 2016

Helikopter Teorisi ve Sistemleri, Undergraduate, 2016 - 2017, 2015 - 2016
İleri Helikopter Teorisi ve Sistemleri, Postgraduate, 2016 - 2017
Uçak Tasarım Uygulama I, Undergraduate, 2014 - 2015
Uçuş Kontrol Sistem Tasarımı, Postgraduate, 2014 - 2015
Bilgisayar Yapısı ve Kullanımı, Undergraduate, 2015 - 2016
Gerçek Zamanlı Kontrol, Doctorate, 2015 - 2016
Arge Yönetimi, Undergraduate, 2014 - 2015
İleri Modern Kontrol Sistemleri ve MATLAB Uygulamaları, Doctorate, 2014 - 2015
İleri Helikopter Teorisi ve Sistemleri, Postgraduate, 2015 - 2016
Aerodinamik, Undergraduate, 2014 - 2015
İş Hayatı İçin İngilizce, Undergraduate, 2014 - 2015
Helikopter Teorisi ve Sistemleri, Undergraduate, 2014 - 2015
Modern Kontrol Sistemleri, Postgraduate, 2014 - 2015
Uçuş Kontrol Sistem Tasarımı, Postgraduate, 2013 - 2014
Pervane, Undergraduate, 2014 - 2015
İleri İngilizce III, Undergraduate, 2014 - 2015
İş Hayatı İçin İngilizce, Undergraduate, 2013 - 2014, 2012 - 2013
Aerodinamik, Undergraduate, 2013 - 2014, 2012 - 2013
Uçak Tasarım Uygulama I ve II, Undergraduate, 2013 - 2014
Helikopter Stabilite ve Kontrolü, Doctorate, 2014 - 2015
Uçuş Mekaniklerinde Optimizasyon Yöntemleri , Postgraduate, 2013 - 2014
Uçuş Teorisi, Undergraduate, 2013 - 2014
Mesleki İngilizce I ve II, Undergraduate, 2012 - 2013
Uçuş Kontrol Sistem Tasarımı (SHA), Postgraduate, 2012 - 2013
Bitirme Ödevi, Undergraduate, 2012 - 2013
Uçuş Teorisi, Undergraduate, 2012 - 2013
Uçak Tasarım Uygulama I ve II , Undergraduate, 2012 - 2013
Pervane, Undergraduate, 2012 - 2013
İleri İngilizce III, Undergraduate, 2012 - 2013
Modern Kontrol Sistemleri (SHA), Postgraduate, 2012 - 2013

Advising Theses

Oktay T., Yenilikçi Rassal Yaklaşımlarla Askeri Kargo Uçaklarında Uçuş Performansının En İyi Hala Getirilmesi, Doctorate, B.Özgür(Student), Continues
Oktay T., "SDBD Surface Dielectric Barrier Discharge Plazma Teknolojisinin Hava Aracı Aerodinamiğine Olan Etkilerinin Analiz Edilmesi", Doctorate, N.Ünal(Student), Continues
Oktay T., Yenilikçi Yaklaşımlar ile VTOL Drone Platformlarının Performanslarının İyileştirilmesi, Doctorate, A.Kocamer(Student), Continues
Oktay T., Sabit Kanatlı Pervane Tahrikli Bir Hava Aracının Performansının İncelenmesi ve İyileştirilmesi, Postgraduate, S.Özdemir(Student), Continues
Oktay T., Ticari Hava Taşımacılığında Operasyonel Emniyet Performansının Maksimizasyonu: Avrupa Birliği (AB) Örneği (Mezun), Doctorate, E.Yeşilbaş(Student), 2024
Oktay T., Döner Kanatlı İnsansız Hava Araçlarının Yenilikçi Yaklaşımlarla Otonom Performansının Maksimizasyonu (Mezun), Doctorate, E.Özen(Student), 2023
Oktay T., Sabit ve Döner Kanatlı İnsansız Hava Araçlarının Aerodinamik İyileştirmeler İle Otonom Performans Maksimizasyonu (Mezun), Doctorate, Y.Eraslan(Student), 2023
Oktay T., Performans Parametreleri İyileştirilmiş Yeni İnsansız Hava Aracı (İHA) Tasarımı (Mezun), Postgraduate, İ.Anıl(Student), 2023
Oktay T., Turboprop Motorlu Askeri Uçaklarda Performans Analizi (Mezun), Postgraduate, B.Özgür(Student), 2023

Oktay T., "Döner Kanatlı Hava Araçlarının Uçuş Performansı Optimizasyonu (Mezun)", Doctorate, H.Şahin(Student), 2022
Oktay T., Hava Aracı Kavramsal Tasarım ve Analiz Sistemi (Mezun), Postgraduate, N.Ünal(Student), 2022
Oktay T., İnovatif Yöntemlerle Kuadkopter Modellenmesi, Kontrolü ve Gerçek Zamanlı Uygulamaları (Mezun), Doctorate, O.Köse(Student), 2021
Oktay T., Aktif Akış Kontrol Ve Otonom Kontrol Yöntemlerinin Birlikte İnsansız Hava Araçları Üzerine Uygulaması (Mezun), Doctorate, Ö.Özdemir(Student), 2020
Oktay T., Konar M., İnsansız helikopterin itki/tork oranının iyileştirilmesi, Postgraduate, A.TÜRKMEN(Student), 2020
Oktay T., İHA'lar üzerine farklı başkalaşım türleri gerçek zamanlı uygulamaları (Mezun), Doctorate, E.Karatay(Student), 2019
OKTAY T., Yüksek İrtifa, Uzun Menzil İHA Tasarımı ve Uçuş Testleri (Mezun), Postgraduate, A.Ceylan(Student), 2019
OKTAY T., İnsansız Hava Araçlarının Aerodinamik Performansının Küçük Geometrik Değişiklikler İle İyileştirilmesi (Mezun), Doctorate, M.Uzun(Student), 2018
OKTAY T., İnsansız Trikoopter Tasarımı ve Otonom Kontrolü (Mezun), Postgraduate, H.Şahin(Student), 2018
OKTAY T., Taktik İnsansız Hava Aracı Tasarımı, İmalatı ve Otonom Kontrolü (Mezun), Doctorate, S.Çoban(Student), 2018
OKTAY T., Kısıtlamalı Kontrol Yöntemleri ile İnsanlı ve İnsansız Helikopterlerin Kontrolü (Mezun), Doctorate, F.ŞAL(Student), 2018
OKTAY T., Aerodinamik Kontrol İçin Yapay Jet Akışlı Eyleyici Tasarımı (Mezun), Postgraduate, A.Ceyhan(Student), 2018
OKTAY T., Havadan Alınan Görüntülerdeki Bulanıklığın Hava Aracı Otonom Performansı Yükseltilecek Önlenmesi (Mezun), Doctorate, H.ÇELİK(Student), 2017
OKTAY T., İnsansız Bir Hava Aracının Yanal Durum-Uzay Modelinin ve Uçuş Kontrol Sisteminin Eş Zamanlı Tasarımı (Mezun), Postgraduate, İ.Ekinci(Student), 2016
OKTAY T., Pasif ve/veya Aktif Başkalaşım İle Sabit Kanatlı İHA'ların Otonom Performansının Maksimizasyonu (Mezun), Postgraduate, M.Abdallah(Student), 2015
OKTAY T., Helikopter Kontrolünde Yeni Yöntemler ile Enerji Tasarrufu (Mezun), Postgraduate, F.ŞAL(Student), 2015

Jury Memberships

Associate Professor Exam, Associate Professor Exam, Erciyes Üniversitesi, June, 2022
Associate Professor Exam, Associate Professor Exam, Erciyes Üniversitesi, December, 2021
Competition, 2242 TÜBİTAK ÜNİVERSİTE ÖĞRENCİLERİ ARAŞTIRMA PROJE YARIŞMALARI-ANKARA BÖLGE-JURİ, Ankara Yıldırım Beyazıt Üniversitesi, August, 2020
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Kapadokya Üniversitesi, November, 2019
Competition, 2242 TÜBİTAK ÜNİVERSİTE ÖĞRENCİLERİ ARAŞTIRMA PROJE YARIŞMALARI-TÜRKİYE ŞAMPİYONASI TEKNOFEST 2019-JURİ, Erciyes Üniversitesi, September, 2019
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Erciyes Üniversitesi, August, 2019
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Erciyes Üniversitesi, August, 2019
Competition, 2242 TÜBİTAK ÜNİVERSİTE ÖĞRENCİLERİ ARAŞTIRMA PROJE YARIŞMALARI-BÖLGE-JURİ, Erciyes Üniversitesi, June, 2019
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, İskenderun Teknik Üniversitesi, January, 2019
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Gümüşhane Üniversitesi, November, 2018
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, İskenderun Teknik Üniversitesi, October, 2018
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Erciyes Üniversitesi, January, 2018
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Erciyes Üniversitesi, December, 2017
Post Graduate, Yüksek Lisans Savunma, Niğde Ömer Halisdemir Üniversitesi, July, 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Autonomous Flight Performance Optimization of Fixed-wing Unmanned Aerial Vehicle with Morphing Wingtip**
Oktay T., Eraslan Y.
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.96, no.4, pp.1-20, 2024 (SCI-Expanded)
- II. **Multidisciplinary Performance Enhancement on a Fixed-wing Unmanned Aerial Vehicle via Simultaneous Morphing Wing and Control System Design**
Eraslan Y., Oktay T.
INFORMATION TECHNOLOGY AND CONTROL, vol.52, no.4, pp.1-20, 2023 (SCI-Expanded)
- III. **Percentile Based Adaptive Immune Plasma Algorithm and Its Application to Engineering Optimization**
Aslan S., Demirci S., Oktay T., Yeşilbaş E.
BIOMIMETICS (BASEL), vol.8, no.6, pp.1-45, 2023 (SCI-Expanded)
- IV. **Simultaneous Arm Morphing Quadcopter and Autonomous Flight System Design**
Köse O., Oktay T., Özen E.
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.95, no.10, pp.1624-1632, 2023 (SCI-Expanded)
- V. **Path Planning of An Unmanned Combat Aerial Vehicle with Extended Treatment Approach Based Immune Plasma Algorithm**
Aslan S., Oktay T.
Aerospace, vol.10, no.5, pp.1-30, 2023 (SCI-Expanded)
- VI. **Simultaneous UAV Having Actively Sweep Angle Morphing Wing and Flight Control System Design**
Uzun M., Oktay T.
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.95, no.7, pp.1062-1068, 2023 (SCI-Expanded)
- VII. **Simultaneous Design of Morphing Hexarotor and Autopilot System by Using Deep Neural Network and SPSA**
Köse O., Oktay T.
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.95, no.6, pp.939-949, 2023 (SCI-Expanded)
- VIII. **Conceptual Design Modeling by the Novel Aircraft Conceptual Design and Analysis System (ACDAS)**
Ünal N., Öz Y., Oktay T.
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.95, no.5, pp.799-813, 2023 (SCI-Expanded)
- IX. **Simultaneous Autonomous System and Powerplant Design for Morphing Quadrotors**
Şahin H., Köse O., Oktay T.
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.94, no.8, pp.1228-1241, 2022 (SCI-Expanded)
- X. **Simultaneous Quadrotor Autopilot System and Collective Morphing System Design**
Köse O., Oktay T.
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.92, no.7, pp.1093-1100, 2020 (SCI-Expanded)
- XI. **Improvement of the Thrust-Torque Ratio of An Unmanned Helicopter by Using the ABC Algorithm**
Konar M., Türkmen A., Oktay T.
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.92, no.5, pp.1133-1139, 2020 (SCI-Expanded)
- XII. **Combined active flow and flight control systems design for morphing UAVs**
Kanat Ö. Ö., Karatay E., Köse O., Oktay T.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART G: JOURNAL OF AEROSPACE ENGINEERING, vol.233, no.14, pp.5393-5402, 2019 (SCI-Expanded)
- XIII. **Constrained control of helicopter vibration to reduce motion blur**
Oktay T., Celik H., Türkmen I.
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.90, pp.1326-1336, 2018 (SCI-Expanded)
- XIV. **Maximum lift/drag ratio improvement of TUAVs via small aerodynamic modifications**
Oktay T., Uzun M., Kanat Ö. Ö.
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.90, no.9, pp.1438-1444, 2018 (SCI-Expanded)
- XV. **Maximizing autonomous performance of fixed-wing unmanned aerial vehicle to reduce motion blur in taken images**

- Oktay T., Celik H., Türkmen I.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART I-JOURNAL OF SYSTEMS AND CONTROL ENGINEERING, vol.232, pp.857-868, 2018 (SCI-Expanded)
- XVI. **Redesign of Morphing UAV for Simultaneous Improvement of Directional Stability and Maximum Lift/Drag Ratio**
Arik S., Türkmen I., Oktay T.
ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING, vol.18, no.4, pp.57-62, 2018 (SCI-Expanded)
- XVII. **Neural network based redesign of morphing UAV for simultaneous improvement of roll stability and maximum lift/drag ratio**
Oktay T., Arik S., Türkmen I., Uzun M., Celik H.
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.90, pp.1203-1212, 2018 (SCI-Expanded)
- XVIII. **simultaneous longitudinal and lateral flight control system design for both passive and active morphing TUAUs**
Oktay T., Çoban S.
ELEKTRONIKA IR ELEKTROTEHNIKA, vol.23, no.5, pp.15-20, 2017 (SCI-Expanded)
- XIX. **A simulation-based method using artificial neural networks for solving the inverse kinematic problem of articulated robots**
Soylak M., Oktay T., Türkmen I.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART E-JOURNAL OF PROCESS MECHANICAL ENGINEERING, vol.231, no.3, pp.470-479, 2017 (SCI-Expanded)
- XX. **Output variance constrained bending control of rotating Euler-Bernoulli beam**
OKTAY T.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART E-JOURNAL OF PROCESS MECHANICAL ENGINEERING, vol.231, no.2, pp.202-211, 2017 (SCI-Expanded)
- XXI. **Effect of the Simultaneous Variation in Blade Root Chord Length and Blade Taper on Helicopter Flight Control Effort**
Oktay T., Şal F.
INTERNATIONAL JOURNAL OF AEROSPACE ENGINEERING, 2017 (SCI-Expanded)
- XXII. **Combined passive and active helicopter main rotor morphing for helicopter energy save**
Oktay T., Şal F.
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.38, no.6, pp.1511-1525, 2016 (SCI-Expanded)
- XXIII. **Simultaneous small UAV and autopilot system design**
Oktay T., Konar M., Onay M., Aydın M., Mohamed M. A.
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.88, pp.818-834, 2016 (SCI-Expanded)
- XXIV. **Comfortable Helicopter Flight Via Passive/Active Morphing**
Oktay T., Sultan C.
IEEE TRANSACTIONS ON AEROSPACE AND ELECTRONIC SYSTEMS, vol.51, no.4, pp.2876-2886, 2015 (SCI-Expanded)
- XXV. **Combined outputs variance constrained and input variance constrained design for flight control**
Oktay T.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART G-JOURNAL OF AEROSPACE ENGINEERING, vol.229, no.12, pp.2196-2204, 2015 (SCI-Expanded)
- XXVI. **Helicopter Control Energy Reduction Using Moving Horizontal Tail**
Oktay T., Şal F.
THE SCIENTIFIC WORLD JOURNAL, vol.2015, pp.1-10, 2015 (SCI-Expanded)
- XXVII. **Flight Control Energy Saving via Helicopter Rotor Active Morphing**
OKTAY T., Sultan C.
JOURNAL OF AIRCRAFT, vol.51, no.6, pp.1784-1804, 2014 (SCI-Expanded)
- XXVIII. **Performance of minimum energy controllers on tiltrotor aircraft**
Oktay T.

- AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.86, no.5, pp.361-374, 2014 (SCI-Expanded)
- XXIX. **Variance-constrained control of maneuvering helicopters with sensor failure**
Oktay T., Sultan C.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART G-JOURNAL OF AEROSPACE ENGINEERING, vol.227, no.12, pp.1845-1858, 2013 (SCI-Expanded)
- XXX. **Modeling and control of a helicopter slung-load system**
Oktay T., Sultan C.
AEROSPACE SCIENCE AND TECHNOLOGY, vol.29, no.1, pp.206-222, 2013 (SCI-Expanded)
- XXXI. **Simultaneous Helicopter and Control-System Design**
Oktay T., Sultan C.
JOURNAL OF AIRCRAFT, vol.50, no.3, pp.911-925, 2013 (SCI-Expanded)
- XXXII. **Constrained predictive control of helicopters**
Oktay T., Sultan C.
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.85, no.1, pp.32-47, 2013 (SCI-Expanded)

Articles Published in Other Journals

- I. **Aircraft Designed for Cargo Transportation and Investigation of its Benefits**
Özen E., Oktay T.
Energy, Environment and Storage, vol.4, no.2, pp.21-26, 2024 (Peer-Reviewed Journal)
- II. **Analysis of exact solutions of Navier – Stokes equations assuming an incompressible fluid**
ÜNAL N., ÖZ Y., OKTAY T.
Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.13, no.2, pp.467-472, 2024 (Peer-Reviewed Journal)
- III. **Sıkıştırılamaz bir sıvıyı varsayan Navier – Stokes denklemlerinin kesin çözümlerinin analizi**
Ünal N., Öz Y., Oktay T.
Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.13, no.2, pp.1-20, 2024 (Peer-Reviewed Journal)
- IV. **Impacts of Tapered Wingtip on Lateral-Directional Stability Coefficients of a Morphing Fixed-wing UAV**
Eraslan Y., Oktay T.
Black Sea Journal of Engineering and Science (BSJ Eng Sci), vol.6, no.4, pp.1-20, 2023 (Peer-Reviewed Journal)
- V. **Innovative Morphing UAV Design and Manufacture**
Çoban S., Oktay T.
Journal of aviation (Online), vol.7, no.3, pp.1-10, 2023 (Peer-Reviewed Journal)
- VI. **Effects of Shape Changing of Morphing Rotary Wing Aircraft on Longitudinal and Lateral Flight**
Oktay T., Özen E.
Journal of Aviation, vol.6, no.3, pp.251-259, 2022 (Peer-Reviewed Journal)
- VII. **Stability Evaluation of a Fixed-wing Unmanned Aerial Vehicle with Morphing Wingtip**
Oktay T., Eraslan Y.
Journal of Aviation, vol.6, no.2, pp.103-109, 2022 (Scopus)
- VIII. **Hexarotor Yaw Flight Control with SPSA, PID Algorithm and Morphing**
Köse O., Oktay T.
International Journal of Intelligent Systems and Applications in Engineering, vol.10, no.2, pp.216-221, 2022 (Scopus)
- IX. **Combined Quadrotor Autopilot System and Differential Morphing System Design**
Köse O., Oktay T.
Journal of Aviation, vol.5, no.2, pp.64-71, 2021 (Scopus)
- X. **Quadrotor Flight System Design using Collective and Differential Morphing with SPSA and ANN**
Köse O., Oktay T.

International Journal of Intelligent Systems and Applications in Engineering, vol.9, no.4, pp.159-164, 2021 (Scopus)

- XI. **Hexarotor Longitudinal Flight Control with Deep Neural Network, PID Algorithm and Morphing**
Köse O., Oktay T.
European Journal of Science and Technology, no.27, pp.115-124, 2021 (Peer-Reviewed Journal)
- XII. **Döner Kanatlı İnsansız Hava Aracı Sistem Tasarımı ve Kontrolü**
Oktay T., Özen E.
European Journal of Science and Technology, no.27, pp.318-324, 2021 (Peer-Reviewed Journal)
- XIII. **Numerical Investigation of Effects of Airspeed and Rotational Speed on Quadrotor UAV Propeller Thrust Coefficient /**
Oktay T., Eraslan Y.
Journal of Aviation, vol.5, no.1, pp.9-15, 2021 (Peer-Reviewed Journal)
- XIV. **Country Border Line Control of Autonomous Rotary Wing Aircraft that Can Detect and Track Moving Objects**
Oktay T., Özen E.
Energy, Environment & Storage An International Journal, vol.2, no.1, pp.15-19, 2021 (Peer-Reviewed Journal)
- XV. **Lateral control with differential and collective morphing in quadrotors**
Köse O., Oktay T.
Journal of Aviation, vol.4, no.2, pp.48-54, 2020 (Peer-Reviewed Journal)
- XVI. **Investigation of the Effect of Differential Morphing on Forward Flight by Using PID Algorithm in Quadrotors**
Köse O., Oktay T.
Journal of Aviation, vol.4, no.1, pp.15-21, 2020 (Peer-Reviewed Journal)
- XVII. **Anfis Based Thrust Estimation of a Small Rotary Wing Drone**
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Project Supported by Other Official Institutions, Bilim,Sanayi,Teknoloji Bakanligi, Baykar Arge Merkezi Denetimi-Hakem, Turkey, October 2017

TUBITAK Project, 3501 - National Young Researcher Career Development Program, --, Turkey, October 2017

TUBITAK Project, 1501 - Industry R & D Projects Support Program, --, Turkey, August 2017

Project Supported by Other Official Institutions, Bilim,Sanayi,Teknoloji Bakanligi, STM Arge Merkezi Denetimi-Hakem, Turkey, August 2017

TUBITAK Project, 1511 - TUBITAK Priority Fields Research Technology Development and Innovation PDP, --, Turkey, July 2017

Project Supported by Other Official Institutions, Bilim,Sanayi,Teknoloji Bakanligi, Alp Havacılık Arge Merkezi Denetimi-Hakem, Turkey, July 2017

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, --, Turkey, May 2017

TUBITAK Project, 1002 - Quick Support Program, --, Turkey, May 2017

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, --, Turkey, May 2017

TUBITAK Project, April 2017

Chinese Journal of Aeronautics, SCI Journal, February 2017

TUBITAK Project, 3001 - Initial R&D Projects Support Program, --, Turkey, February 2017

Project Supported by Other Official Institutions, Bilim,Sanayi,Teknoloji Bakanligi, Baykar Arge Merkezi Denetimi-Komisyon Üyeliği, Turkey, October 2016

Project Supported by Other Official Institutions, Bilim,Sanayi,Teknoloji Bakanligi, TCI Cabin Interior Arge Merkezi Denetimi-Hakem, Turkey, October 2016

Mehmet Akif Ersoy Üniversitesi Sosyal Bilimler Enstitüsü Dergisi, National Scientific Refreed Journal, September 2016

Anadolu Üniversitesi Bilim Ve Teknoloji Dergisi - A Uygulamalı Bilimler ve Mühendislik, National Scientific Refreed Journal, June 2016

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, --, Turkey, June 2016

Systems Science and Control Engineering An Open Access Journal, SCI Journal, May 2016

Journal of Aerospace Engineering, SCI Journal, May 2016

IEEE/ASME Transactions on Mechatronics, SCI Journal, March 2016

Project Supported by Other Official Institutions, Bilim, Sanayi, Teknoloji Bakanligi,TAI Arge Merkezi Denetimi-Hakem, Turkey, March 2016

Aircraft Engineering and Aerospace Technology, SCI Journal, February 2016

Aerospace Science and Technology, SCI Journal, February 2016

TUBITAK Project, 1003 - Priority Areas R&D Projects Support Program, --, Turkey, February 2016

Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, SCI Journal, December 2015

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, --, Turkey, December 2015

Project Supported by Higher Education Institutions, BAP Research Project, Erciyes Üniversitesi, Turkey, December 2015

Aerospace Science and Technology, SCI Journal, November 2015

Project Supported by Other Official Institutions, Bilim, Sanayi, Teknoloji Bakanligi, Baykar Arge Merkezi Denetimi-Hakem, Turkey, November 2015

Aerospace Science and Technology, SCI Journal, September 2015

UHAT 2015, Other Journals, September 2015

Ulusal Havacılık Teknolojisi Konferansı, Other Journals, September 2015

Journal of Aircraft, SCI Journal, July 2015

ASME 2015 Dynamic Systems and Control Conference, Other journals, June 2015

Aerospace Science and Technology, SCI Journal, April 2015

Aerospace Science and Technology, SCI Journal, March 2015

Aerospace Science and Technology, SCI Journal, February 2015

Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, SCI Journal, February 2015

Journal of Franklin Institute, SCI Journal, July 2014

Aerospace Science and Technology, SCI Journal, July 2014

Aerospace Science and Technology, SCI Journal, February 2014

Journal of Franklin Institute, SCI Journal, February 2014

AIAA Guidance Navigation Conference 2012,2013, Other journals, February 2013

AIAA Guidance Navigation Conference 2012, Other journals, February 2012

Tasks In Event Organizations

Oktay T., International Congress On Aerospace & Mechanical Engineering (EUROAME 2024) (Organizing Committee Member), Scientific Congress, Valencia, Spain, Ekim 2024

Oktay T., 10th International Conference on Recent Advances in Air and Space Technologies (RAST2023) (Scientific Advisory Board), Scientific Congress, İstanbul, Turkey, Haziran 2023

Oktay T., 9th International Conference on Control, Decision and Information Technologies (CoDIT'23) (Bilim Kurulu Üyesi - IPC), Scientific Congress, Rome, Italy, Mayıs 2023

Oktay T., 2nd International Conference on Energy, Environment and Storage of Energy (Organizasyon komitesi üyesi) , Scientific Congress, Turkey, Eylül 2022

Oktay T., 8th 2022 International Conference on Control, Decision and Information Technologies (Bilim Kurulu Üyesi - IPC), Scientific Congress, İstanbul, Turkey, Mayıs 2022

Oktay T., 1. Havacılık Öğrencileri Sempozyumu (Sempozyum Danışma Kurulu), Scientific Congress, Konya, Turkey, Mayıs 2022

Oktay T., 1st International Conference on Energy, Environment and Storage of Energy (Organizasyon komitesi üyesi), Scientific Congress, Kayseri, Turkey, Kasım 2020

Oktay T., 7th European conference for aeronautics and space sciences (Bilim kurulu üyesi), Scientific Congress, Milan, Italy, Temmuz 2017

Scientific Research / Working Group Memberships

United Technologies Research Center (Sikorsky Helicopters Department), Virginia Polytechnic Institute and State University, Amerika Birleşik Devletleri, http://www.utrc.utc.com/pages/our_company.html, 2010 - 2010

Metrics

Publication: 195

Citation (WoS): 373

Citation (Scopus): 531

H-Index (WoS): 13

H-Index (Scopus): 15

Congress and Symposium Activities

11. Uluslararası Balkan Uygulamalı Bilimler Kongresi, Invited Speaker, Skopje, Macedonia, 2024

5th International Conference on Research in Engineering, Invited Speaker, Budapest, Hungary, 2023

International Conference of Aeronautics and Astronautics, Invited Speaker, Konya, Turkey, 2021

4th International Conference on Engineering and Natural Sciences (ICENS 2018), Kiew, Ukrayna, Konuşmacı, Attendee, Kyyiv, Ukraine, 2018

21th International Conference Electronics 2017, Litvanya, Attendee, Plunge, Lithuania, 2017

6th International Research Conference on Science, Management and Engineering (IRCSME 2017), Dubai, Attendee, Dubayy, United Arab Emirates, 2017

5th International Conference on Science, Technology, Engineering and Management (ICSTEM), Attendee, Dubayy, United Arab Emirates, 2016

2nd International Conference on Engineering and Natural Sciences (ICENS), Konuşmacı, Attendee, Sarajevo, Bosnia And Herzegovina, 2016

Ulaştırma Denizcilik ve Haberleşme Bak. Milli Havacılık ve Uzay Teknolojileri Paydaş-Sektör Grup Toplantısı, Attendee, Ankara, Turkey, 2016

International Conference on Aerospace, Mechanical, Automotive and Materials Engineering, ICAMAME 2016, Birleşik Arap Emirlikleri (Konuşmacı), Attendee, Dubayy, United Arab Emirates, 2016

International Conference on Unmanned Aircraft Systems and Technology, ICUAST 2016, İsviçre (Konuşmacı), Attendee, Zürich, Switzerland, 2016

6th European Conference For Aeronautics and Space Science, EUCASS 2015, Polonya (Konuşmacı), Attendee, Krakow, Poland, 2015

The 1st International Symposium on Sustainable Aviation (ISSA-2015), Konuşmacı, Attendee, İstanbul, Turkey, 2015

Tübitak Proje Tanıtım Toplantısı (Uçuş Kontrol Sistemi ve Küçük İnsansız Hava Aracının Eş Zamanlı Tasarımı ve Gerçek Zamanlı Uygulaması, Konuşmacı), Attendee, Kayseri/ERÜ-SHYO, Turkey, 2015

Invited Talks

Morphing and Its Aeronautical Applications - International Conference of Aeronautics and Astronautics-, Conference, Selçuk Üniversitesi, Turkey, November 2021

Scholarships

Yurtdışı Doktora Bursu, Ministry of Education, 2009 - 2012