

## Prof. TUĞRUL OKTAY



### Personal Information

**Email:** oktay@erciyes.edu.tr

**Web:** <https://avesis.erciyes.edu.tr/oktay>

**Address:** Erciyes Üniversitesi Havacılık ve Uzay Bilimleri Fakültesi A Blok Kayseri



### International Researcher IDs

ScholarID: 9w88glsAAAAJ

ORCID: 0000-0003-4860-2230

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

### Biography

Summary of your current activity:

I am working on state of the art technologies in aerospace engineering such as morphing, drones, UAVs, active flow control, helicopter latest technologies and applications. I am also interested in sustainable aviation and sustainable development topics. In addition, drone market is in my primary focus. I also contributed some important outputs to drone market.

Airborne agriculture is also in my focus. Drones are used in many agricultural operations. This satisfies green, smart and competitive missions. My products (i.e., morphing drones both fixed wing and VTOL) obtained from my R&D projects is valid for previously mentioned purposes. These products are also so suitable for transforming agri-food. Since drones are so small with respect to the traditional farming machines, they waste much less fuel with respect to the traditional ones. Therefore, my products obtained from important projects (capturing EU funded projects, and also many other scientific projects) also can be evaluated in the class of mission green fuels and also minor carbon emission.

Description of your general research and technological or market background:

My fields of expertise are in general helicopter theory, control theory and UAVs. In addition, I am interested in manufacturing of them. I am also interested in sustainable aviation and sustainable development topics. Drone market is one of my important interest areas. Aviation market is also one of my primary interest areas. I have important contributions into drone and aviation market.

Airborne agriculture is also in my focus. Drones are used in many agricultural operations. This satisfies green, smart and competitive missions. In especially in last 10 years in my R&D projects green applications, agricultural operations and transforming agri-food is in my focus.

Please visit my EU funded project below (it become very popular for education of potential drone users for agricultural operations).

<https://erasmus-plus.ec.europa.eu/projects/search/details/2018-1-TR01-KA203-059632>

Description of your sector experience with particular focus on market application of R&D results:

I help many companies for designing and manufacturing of UAVs/drones. I am also helping them for automation systems. I am also interested in sustainable aviation and sustainable development topics. I have completed many R&D projects related with novel UAV/drone design and manufacturing. My products have been applied in market recently especially in agricultural tasks, mapping, safety and also green energy considered missions. Please visit my projects in my research gate website:

<https://www.researchgate.net/profile/Tugrul-Oktay/projects>

Description of your SME programmes experiences and if applicable, any project assessment/evaluation and project monitoring activities:

I prepared SME Phase I and II projects. I am also interested in EUREKA and Eurostars Programme. I am also interested in sustainable aviation and sustainable development topics. I am also interested in aviation and drone topics. In last five

years I became evaluator for many different evaluation centers such as:

- National Center of Science and Technology Evaluation-Kazakhstan (more than 10 times)
- National Center of Science and Technology Evaluation-Latvia
- National Center of Science and Technology Evaluation-Lithuania
- National Center of Science and Technology Evaluation-Republic of Turkey (more than 1000 times)
- Erasmus + Strategic Partnerships in European Union (more than 500 times)
- For Eureka Eurostars (more than 10 times)
- For market (KOSGEB in Republic of Turkey)

and many other different projects were evaluated by me in last 5 years especially.

## **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, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Uçak Ve Uzay Mühendisliği, 2008

## **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 Mekanikinde 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 Mekanik (Uçak Müh. ABD), Postgraduate, 2018 - 2019  
Akışkanlar Mekanik, Undergraduate, 2018 - 2019  
Aerodinamik, Undergraduate, 2016 - 2017  
İleri helikopter teorisi ve sistemleri, Postgraduate, 2017 - 2018  
Uçuş Mekanikinde 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 Mekanikinde 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 Mekaniğinde 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., "SDBD Surface Dielectric Barrier Discharge Plazma Teknolojisinin Hava Aracı Aerodinamiğine Olan Etkilerinin Analiz Edilmesi", Doctorate, N.Ünal(Student), Continues  
Oktay T., Yenilikçi Rassal Yaklaşımlarla Askeri İnsanlı ve İnsansız Kargo Hava Araçlarında Uçuş Performansının En İyi Hali, Doctorate, B.Özgür(Student), Continues  
Oktay T., Yenilikçi Yaklaşımlar ile VTOL Drone Platformlarının Performansının İyileştirilmesi, Doctorate, A.Kocamer(Student), Continues  
Oktay T., Sabit Kanatlı Pervane Tahrikli Bir Hava Aracının Performansının İncelenmesi ve İyileştirilmesi (Mezun), Postgraduate, S.Özdemir(Student), 2024  
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 Trikopter 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. **Improvement of the thrust-torque ratio of an unmanned helicopter by using the ABC algorithm**  
KONAR M., Turkmen A., OKTAY T.  
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.92, no.8, pp.1133-1139, 2020 (SCI-Expanded)
- XI. **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)
- 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. **Neural network based redesign of morphing UAV for simultaneous improvement of roll stability and maximum lift/drag ratio**  
Oktay T., Arık S., Türkmen I., Uzun M., Celik H.  
AIRCRAFT ENGINEERING AND AEROSPACE TECHNOLOGY, vol.90, pp.1203-1212, 2018 (SCI-Expanded)
- XVII. **Redesign of Morphing UAV for Simultaneous Improvement of Directional Stability and Maximum Lift/ Drag Ratio**  
Arık S., Türkmen I., Oktay T.  
ADVANCES IN ELECTRICAL AND COMPUTER ENGINEERING, vol.18, no.4, pp.57-62, 2018 (SCI-Expanded)
- XVIII. **simultaneous longitudinal and lateral flight control system design for both passive and active**

## **morphing TUAVs**

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**



## Articles Published in Other Journals

- I. **Maximization of Flight Performance of Eight-Rotor Multirotor with Differentiated Hub Angle**  
Özen E., Oktay T.  
Journal of aviation (Online), vol.8, no.3, pp.1-10, 2024 (Peer-Reviewed Journal)
- II. **Simultaneous Flight Control System and Twist-Morphing Wing Design of an Unmanned Aerial Vehicle**  
Eraslan Y., Oktay T.  
Niğde Ömer Halisdemir Üniversitesi Mühendislik Bilimleri Dergisi, vol.13, no.4, pp.1-20, 2024 (Peer-Reviewed Journal)
- III. **Decacopter başkalaşım etkisi altında boylamasına uçuşunun spsa, sgd ve ysa ile optimizasyonun karşılaştırılması**  
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OKTAY T., KOCAMER A., Project Supported by Higher Education Institutions, Yenilikçi Yaklaşımlar ile VTOL Drone Platformlarının Performansının İyileştirilmesi, 2023 - Continues

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OKTAY T., Project Supported by Higher Education Institutions, Hareketli Yatay Kuyruk Yüzeyi Vasıtasıyla Helikopter Kontrolünde Enerji Tasarrufu, 2013 - 2014

## Activities in Scientific Journals

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Drone Technologies (DT), Committee Member, 2023 - Continues

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Insight - Engineering and Technology, Committee Member, 2018 - Continues

Progress in Human Computer Interaction, Committee Member, 2018 - Continues

MAYFEB Journal of Control and Systems Engineering, Committee Member, 2016 - Continues

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## Memberships / Tasks in Scientific Organizations

Makina Mühendisleri Odası, Member, 2016 - Continues, Turkey

## Scientific Refereeing

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IEEE-ASME TRANSACTIONS ON MECHATRONICS, SCI Journal, January 2020

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, Erciyes University, Turkey, January 2020

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Erciyes University, Turkey, January 2020

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART I-JOURNAL OF SYSTEMS AND CONTROL ENGINEERING, SCI Journal, December 2019

JOURNAL OF VIBRATION AND CONTROL, SCI Journal, December 2019

MATHEMATICAL PROBLEMS IN ENGINEERING, SCI Journal, December 2019

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART G-JOURNAL OF AEROSPACE ENGINEERING, SCI Journal, December 2019

Aviation, Journal Indexed in ESCI, December 2019

IEEE ACCESS, SCI Journal, December 2019

TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, TEYDEB, Turkey, December 2019

JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS, SCI Journal, November 2019

JOURNAL OF VIBRATION AND CONTROL, SCI Journal, November 2019

TÜBİTAK International Bilateral Joint Cooperation Program Project, Korean National Research Foundation, NRF Bilateral Joint Cooperation Program, Tübitak, Turkey, November 2019

Project Supported by Higher Education Institutions, BAP Research Project, Adana Science And Technology University,

Turkey, November 2019  
IEEE ACCESS, SCI Journal, October 2019  
Journal of Robotics, Other Indexed Journal, October 2019  
TUBITAK Project, 1501 - Industry R & D Projects Support Program, Erciyes University, Turkey, October 2019  
Project Supported by Higher Education Institutions, BAP Research Project, Selcuk University, Turkey, October 2019  
Project Supported by Public Organizations in Other Countries, National center of science and technology, Kazakhstan, October 2019  
INTERNATIONAL JOURNAL OF AEROSPACE ENGINEERING, SCI Journal, September 2019  
TUBITAK Project, 1501 - Industry R & D Projects Support Program, Erciyes University, Turkey, September 2019  
TUBITAK Project, 1501 - Industry R & D Projects Support Program, Erciyes University, Turkey, September 2019  
TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, Erciyes University, Turkey, August 2019  
TUBITAK Project, 1501 - Industry R & D Projects Support Program, Erciyes University, Turkey, August 2019  
Current Signal Transduction Therapy, Journal Indexed in ESCI, June 2019  
IEEE-Asme Transactions On Mechatronics, SCI Journal, June 2019  
Aerospace Science And Technology, SCI Journal, June 2019  
TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, Teydeb, Turkey, June 2019  
IEEE ACCESS, SCI Journal, May 2019  
INTERNATIONAL JOURNAL OF AEROSPACE ENGINEERING, SCI Journal, May 2019  
IEEE-ASME TRANSACTIONS ON MECHATRONICS, SCI Journal, May 2019  
JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS, SCI Journal, May 2019  
TUBITAK Project, 1511 - TUBITAK Priority Fields Research Technology Development and Innovation PDP, Erciyes Üniversitesi, Turkey, May 2019  
Project Supported by Higher Education Institutions, BAP Research Project, Adana Bilim Ve Teknoloji Üniversitesi, Turkey, May 2019  
TUBITAK Project, 1501 - Industry R & D Projects Support Program, Erciyes Üniversitesi, Turkey, May 2019  
IEEE-ASME TRANSACTIONS ON MECHATRONICS, SCI Journal, April 2019  
Aviation, Other Indexed Journal, March 2019  
Journal of Vibration and Control, SCI Journal, March 2019  
IEEE/ASME Transactions on Mechatronics, SCI Journal, March 2019  
TUBITAK Project, 1501 - Industry R & D Projects Support Program, --, Turkey, March 2019  
Journal of Vibration and Control, SCI Journal, February 2019  
TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, --, Turkey, February 2019  
TUBITAK Project, 1507 - TÜBİTAK SME R&D Start Support Program, --, Turkey, February 2019  
IEEE/ASME Transactions on Mechatronics, SCI Journal, January 2019  
Recent Advances in Electrical and Electronic Engineering, Other Indexed Journal, January 2019  
TUBITAK Project, 1002 - Quick Support Program, --, Turkey, January 2019  
TUBITAK Project, 3501 - National Young Researcher Career Development Program, --, Turkey, January 2019  
Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, SCI Journal, December 2018  
The Journal of the Brazilian Society of Mechanical Sciences and Engineering, SCI Journal, December 2018  
Recent Advances in Electrical and Electronic Engineering, Other Indexed Journal, December 2018  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, SCI Journal, December 2018  
TUBITAK Project, 1501 - Industry R & D Projects Support Program, --, Turkey, December 2018  
Project Supported by Higher Education Institutions, BAP Research Project, Adana Bilim Ve Teknoloji Üniversitesi, Turkey, December 2018  
Recent Advances in Electrical and Electronic Engineering, SCI Journal, November 2018  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, SCI Journal, November 2018  
TUBITAK Project, 1501 - Industry R & D Projects Support Program, --, Turkey, November 2018  
Project Supported by Higher Education Institutions, BAP Research Project, Adana Bilim Ve Teknoloji Üniversitesi, Turkey, November 2018  
TUBITAK Project, 2244 - Industrial Phd. Program Project, --, Turkey, November 2018



Mechatronics, SCI Journal, October 2018  
IEEE/ASME Transactions on Mechatronics, SCI Journal, October 2018  
Project Supported by Higher Education Institutions, BAP Research Project, Selçuk Üniversitesi, Turkey, October 2018  
Journal of Vibration and Control, SCI Journal, September 2018  
IEEE/ASME Transactions on Mechatronics, SCI Journal, July 2018  
TUBITAK Project, 1509 - TÜBİTAK International Industry R&D Projects Support Program, --, Turkey, July 2018  
Project Supported by Other Official Institutions, Bilim,Sanayi,Teknoloji Bakanlığı, TCI Kabin İçi Sistemleri Arge Merkezi Denetimi-Hakem, Turkey, July 2018  
TUBITAK Project, 1501 - Industry R & D Projects Support Program, --, Turkey, July 2018  
Chinese Journal of Aeronautics, SCI Journal, June 2018  
IEEE/ASME Transactions on Mechatronics, SCI Journal, June 2018  
Smart Materials and Structures, SCI Journal, June 2018  
Fluctuation and Noise Letters, SCI Journal, June 2018  
Project Supported by Other Official Institutions, Bilim,Sanayi,Teknoloji Bakanlığı, TAI Arge Merkezi Denetimi-Hakem, Turkey, June 2018  
TUBITAK Project, June 2018  
Asian Journal of Control, SCI Journal, May 2018  
TUBITAK Project, 1002 - Quick Support Program, --, Turkey, May 2018  
Proceedings of the Institution of Mechanical Engineers, Part G: Journal of Aerospace Engineering, SCI Journal, April 2018  
IEEE/ASME Transactions on Mechatronics, SCI Journal, April 2018  
TUBITAK Project, 3501 - National Young Researcher Career Development Program, --, Turkey, April 2018  
Project Supported by Other Official Institutions, Bilim,Sanayi,Teknoloji Bakanlığı, Skyjet Havacılık Teknik ve Eğitim AŞ Arge Merkezi Denetimi-Hakem, Turkey, April 2018  
IEEE/ASME Transactions on Mechatronics, SCI Journal, March 2018  
International Advanced Researches and Engineering Journal, National Scientific Refreed Journal, March 2018  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES, SCI Journal, February 2018  
IEEE/ASME Transactions on Mechatronics, SCI Journal, February 2018  
European Journal of Control, SCI Journal, January 2018  
International Journal of Systems Science - Taylor & Francis Online, SCI Journal, December 2017  
Journal of The Franklin Institute - Elsevier, SCI Journal, December 2017  
IEEE/ASME Transactions on Mechatronics, SCI Journal, December 2017  
International Journal Of Aerospace Engineering, SCI Journal, November 2017  
Project Supported by Other Official Institutions, Bilim,Sanayi,Teknoloji Bakanlığı, 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 Bakanlığı, 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 Bakanlığı, 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 Bakanlığı, Baykar Arge Merkezi Denetimi-Komisyon Üyeliği, Turkey, October 2016  
Project Supported by Other Official Institutions, Bilim,Sanayi,Teknoloji Bakanlığı, 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 Bakanlığı,TAİ 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, United States Of America, [http://www.utrc.utc.com/pages/our\\_company.html](http://www.utrc.utc.com/pages/our_company.html), 2010 - 2010

## Metrics

Publication: 199  
Citation (WoS): 412  
Citation (Scopus): 586  
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, Kyiv, 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 Unmanned Aircraft Systems and Technology, ICUAST 2016, İsviçre (Konuşmacı), Attendee, Zürich, Switzerland, 2016  
International Conference on Aerospace, Mechanical, Automotive and Materials Engineering, ICAMAME 2016, Birleşik Arap Emirlikleri (Konuşmacı), Attendee, Dubayy, United Arab Emirates, 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