# Prof. Dr. OZAN TEKİNALP

## Kişisel Bilgiler

**İş Telefonu:** +90 312 210 4287
**Fax Telefonu:** +90 312 210 4250
**E-posta:** tekinalp@metu.edu.tr
**Web:** https://avesis.metu.edu.tr/tekinalp

**Uluslararası Araştırmacı ID'leri**
ScholarID: nsvi5-8AAAAJ
ORCID: 0000-0001-7507-1231
Publons / Web Of Science ResearcherID: ABB-8878-2020
ScopusID: 6602683154
Yoksis Araştırmacı ID: 51869

## Eğitim Bilgileri

Doktora, University of Michigan, College of Engineerin, Mechanical Engineering And Applied Mechanics Department, Amerika Birleşik Devletleri 1983 - 1988
Yüksek Lisans, University of Michigan, College of Engineering, Mechanical Engineering and Applied Mechanics Department, Amerika Birleşik Devletleri 1982 - 1983
Lisans, İstanbul Teknik Üniversitesi, Makine Fakültesi, Makine Mühendisliği Bölümü, Türkiye 1976 - 1981

## Yabancı Diller

İngilizce, C1 İleri

## Yaptığı Tezler

Doktora, Dynamic Modeling of Drill Bit Vibrations, University Of Michigan, Mechanical Engineering And Applied Mechanics Department, 1988

## Araştırma Alanları

Havacılık ve Uzay Mühendisliği, Havacılık Mühendisliği, Uzay Mühendisliği, Uçuş Bilimleri, Hava Taşıtı Sistem Teknolojileri, Görev, Uçuş Dinamiği-Kararlılık, Uçuş Kontrol Sistemleri, Uzay aracı dinamiği modelleme, Yönelim ve Yörünge Kontrol, Mühendislik ve Teknoloji

## Akademik Unvanlar / Görevler

Prof. Dr., Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Havacılık ve Uzay Mühendisliği Bölümü, 1988 - Devam Ediyor

## Akademik İdari Deneyim

## Akademik İdari Deneyim

Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Havacılık ve Uzay Mühendisliği Bölümü, 2009 - 2018

## Yönetilen Tezler

Tekinalp O., LONG TERM AND SAFE CLUSTER FLYING FOR DISTRIBUTED SPACE SYSTEMS, Doktora, B.YAĞLIOĞLU(Öğrenci), 2023

Söken H. E., Tekinalp O., Realtime Magnetometer Calibration for Spinning Aerospace Vehicles, Yüksek Lisans, M.EFE(Öğrenci), 2022

TEKİNALP O., Structured H-infinity controller design and analysis for highly maneuverable jet aircraft, Yüksek Lisans, S.VOLKAN(Öğrenci), 2022

TEKİNALP O., Evaluation of guidance methods for a swarm of munitions, Yüksek Lisans, A.ALP(Öğrenci), 2021

Söken H. E., Tekinalp O., Design of a vision-based three-axis attitude estimationalgorithm for small satellites, Yüksek Lisans, M.BURAK(Öğrenci), 2021

Tekinalp O., Güneş yelkenli uzay aracının elastik operasyonel konsept çerçevesinde yönelim ve yörünge kontrolü, Doktora, H.CAN(Öğrenci), 2021

TEKİNALP O., Doğal dinamik kullanılarak hale yörüngede ve dünya etrafında seyir eden uzay araçları için kol uçuşu tasarımı, Doktora, A.Kutlu(Öğrenci), 2020

Tekinalp O., Vibration based and miniaturizable satellite attitude actuator, Doktora, B.AKBULUT(Öğrenci), 2019

Tekinalp O., Design, development and control of a hybrid uav, Yüksek Lisans, A.MURATOĞLU(Öğrenci), 2019

TEKİNALP O., Smooth slew maneuvers of flexible spacecraft, Yüksek Lisans, S.ALTINIŞIK(Öğrenci), 2019

Tekinalp O., Control system design and implementation of a tilt rotor UAV, Yüksek Lisans, L.CEVHER(Öğrenci), 2019

Tekinalp O., Modeling and control of quadrotor formations carrying aslung load, Doktora, S.OLUMIDE(Öğrenci), 2019

TEKİNALP O., Hibrit hava aracının tasarımı, modellenmesi ve kontrolü., Yüksek Lisans, A.Muratoğlu(Öğrenci), 2019

Tekinalp O., Orbit determination strategy and verification for geosynchronous satellites, Yüksek Lisans, A.KÖKER(Öğrenci), 2019

TEKİNALP O., Polynomial trajectory shaping guidance algorithm for multi-missile salvo attack, Yüksek Lisans, N.BAŞAK(Öğrenci), 2018

TEKİNALP O., Autonomous spacecraft rendezvous and docking on safe trajectories, Yüksek Lisans, A.TEVFİK(Öğrenci), 2018

TEKİNALP O., Development of state dependent factorized optimal control methods with application to spacecraft Coulomb formations, Doktora, M.MEHDI(Öğrenci), 2017

Kurtuluş D. F., Tekinalp O., Modelling and Controller Design of a VTOL Air Vehicle, Yüksek Lisans, A.Sami(Öğrenci), 2015

TEKİNALP O., Faux riccati equation techniques for feedback control of nonlinear and time-varying systems, Doktora, A.PRACH(Öğrenci), 2015

TEKİNALP O., Nonlinear guidance and control of leader-follower UAV formations, Yüksek Lisans, S.KUMBASAR(Öğrenci), 2015

TEKİNALP O., Separation simulation for helicopter external stores and generation of safe separation envelopes, Yüksek Lisans, Ö.KAPULU(Öğrenci), 2015

TEKİNALP O., Attitude control of an earth orbiting solar sail satellite to progressively change the selected orbital element, Yüksek Lisans, Ö.ATAŞ(Öğrenci), 2014

TEKİNALP O., System identification using flight test data, Yüksek Lisans, O.ŞİMŞEK(Öğrenci), 2014

TEKİNALP O., Response surface based performance analysis of an air-defense missile system, Yüksek Lisans, K.GÜNAYDIN(Öğrenci), 2014

TEKİNALP O., Yüksek by-pass oranlı turbofan motorlarının aerotermodinamik tasarımı ve optimizasyonu., Yüksek Lisans, S.Arayibi(Öğrenci), 2014

TEKİNALP O., Nonlinear control of unmanned aircraft formations, Yüksek Lisans, S.ARIYIBI(Öğrenci), 2014

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

TEKİNALP O., Evaluation of rotorcraft system identification approaches, Yüksek Lisans, S.KAYMAK(Öğrenci), 2013

TEKİNALP O., Satellite attitude determination based on GPS carrier phase measurements, Yüksek Lisans,

E.ÖZTEN(Öğrenci), 2013

TEKİNALP O., Conceptual design optimization of a nano-satellite launcher, Yüksek Lisans, Y.EMRE(Öğrenci), 2012

TEKİNALP O., YAVRUCUK İ., Development of a UAV testbed, Yüksek Lisans, Z.ÇAKIR(Öğrenci), 2011

TEKİNALP O., Control of a satellite with flexible smart beam during slew maneuver, Yüksek Lisans, H.ÜREK(Öğrenci), 2011

TEKİNALP O., External geometry and flight performance optimization of turbojet propelled air to ground missiles, Yüksek Lisans, E.DEDE(Öğrenci), 2011

TEKİNALP O., YAVRUCUK İ., Development of control allocation methods for satellite attitude control, Yüksek Lisans, T.ÇİĞDEM(Öğrenci), 2010

TEKİNALP O., Flight control system design for an over actuated UAV against actuator failures, Yüksek Lisans, S.IŞIK(Öğrenci), 2010

TEKİNALP O., ÖZGÖREN M. K., Attitude control of multiple rigid body spacecraft with flexible hinge joints, Yüksek Lisans, B.AKBULUT(Öğrenci), 2009

TEKİNALP O., Multiobjective design optimization of rockets and missiles, Yüksek Lisans, M.YAVUZ(Öğrenci), 2009

TEKİNALP O., Flight control of a tilt duct UAV with emphasis on the over actuated transition flight phase, Yüksek Lisans, T.ÜNLÜ(Öğrenci), 2009

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

TEKİNALP O., Design of kalman filter based attitude determination algorithms for a leo satellite and for a satellite attitude control test setup, Yüksek Lisans, A.KUTLU(Öğrenci), 2008

TEKİNALP O., Flight simulation and control of a helicopter, Yüksek Lisans, G.HİLAL(Öğrenci), 2008

TEKİNALP O., Control allocation against actuator failures in overactuated small satellites, Yüksek Lisans, Ö.KAHRAMAN(Öğrenci), 2007

TEKİNALP O., Steering of redundant robotic manipulators and spacecraft integrated power and attitude control-control moment gyroscopes, Yüksek Lisans, A.ALTAY(Öğrenci), 2006

TEKİNALP O., Tarımsal robot uçak kavramsal tasarımı eniyilemesi, Yüksek Lisans, S.Özdemir(Öğrenci), 2005

TEKİNALP O., A layerwise approach to modeling piezolaminated plates, Doktora, C.LEVENT(Öğrenci), 2005

TEKİNALP O., Multi objective conceptual design optimization of an agricultural aerial robot, Yüksek Lisans, S.ÖZDEMİR(Öğrenci), 2005

TEKİNALP O., Simulated annealing for the generation of pareto fronts with aerospace applications, Yüksek Lisans, G.KARSLI(Öğrenci), 2004

TEKİNALP O., Steering laws for control moment gyroscope systems used in spacecrafts attitude control, Yüksek Lisans, E.YAVUZOĞLU(Öğrenci), 2003

TEKİNALP O., Development of a flexible satellite simulator and associated control algorithms, Yüksek Lisans, K.TAYLAN(Öğrenci), 2002

TEKİNALP O., Missile trajectory optimization using genetic algorithm, Yüksek Lisans, M.SOYLUOĞLU(Öğrenci), 2001

TEKİNALP O., Optimization of north south station keeping manoeuvers for geostationary satellites, Yüksek Lisans, Z.YILDIZ(Öğrenci), 2001

TEKİNALP O., Guidance and control of a spinning missile, Yüksek Lisans, B.SEMERCİ(Öğrenci), 2001

TEKİNALP O., Neural network initalization of strapdown inertial navigation systems, Yüksek Lisans, M.Özemre(Öğrenci), 2000

TEKİNALP O., Neural network initialization of strapdown inertial navigation systems, Yüksek Lisans, M.ÖZEMRE(Öğrenci), 2000

TEKİNALP O., Multi-discplinary design optimization of missiles, Yüksek Lisans, M.Bingöl(Öğrenci), 2000

TEKİNALP O., Modeling and control of a tilt-duct VTOL UAV, Yüksek Lisans, A.OKAN(Öğrenci), 2000

TEKİNALP O., Multi-disciplinary design optimization of missiles, Yüksek Lisans, M.BİNGÖL(Öğrenci), 2000

TEKİNALP O., Missile design optimization using simulated annealing techniue, Yüksek Lisans, S.UTALAY(Öğrenci), 1999

TULUNAY Y., TEKİNALP O., Modeling and simulation of the Türksat 1B Satellite using artificial neural networks, Yüksek Lisans, A.Türker(Öğrenci), 1999

TEKİNALP O., 3- Axis attitude control of a geostationary satellite, Yüksek Lisans, H.ÖZGÜR(Öğrenci), 1999

TEKİNALP O., Missile design optimization using simulated annealing technique, Yüksek Lisans, S.Utalay(Öğrenci), 1999

TEKİNALP O., TULUNAY Y., Modeling and control of beam type structures with surface bonded piezoelectric sensors and actuators, Yüksek Lisans, B.Yağcı(Öğrenci), 1998

TEKİNALP O., Modelling and control of beam type structures with surface bonded piezoelectric sensors and actuators, Yüksek Lisans, B.YAĞCI(Öğrenci), 1998

TULUNAY Y., TEKİNALP O., Investigation of minimum fuel maneuvers of Türksat 1B satellite with possible use of its simulator, Yüksek Lisans, T.Erdal(Öğrenci), 1998

TEKİNALP O., Robust control of a highly maneuverable aircraft, Yüksek Lisans, M.ERGÜN(Öğrenci), 1998

TEKİNALP O., Orbit dynamics, attitude dynamics and control: Investigation into possible applications to TURKSAT, Yüksek Lisans, H.ÖZGE(Öğrenci), 1997

TEKİNALP O., TULUNAY Y., Orbit dynamics attitude dynamics and control:Investigation into possible applications to Türksat, Yüksek Lisans, H.Özge(Öğrenci), 1997

TEKİNALP O., Optimal trajectories for air-to-surface missiles using direct collocation and nonlinear programming, Yüksek Lisans, E.MURAT(Öğrenci), 1996

TEKİNALP O., Optimal trajectories for air-tosurfaces missiles using direct collocation and nonlinear programming, Yüksek Lisans, E.Murat(Öğrenci), 1996

TEKİNALP O., Free vibration analysis of multi-layer adhesively bonded rotating beams, Yüksek Lisans, A.KADİR(Öğrenci), 1992

TEKİNALP O., Free vibration analysis of adhesively bonded multi-layer beams and lap-joints, Yüksek Lisans, N.ÇAĞLAYAN(Öğrenci), 1992

# SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

I. **Orbit Control of an Earth Orbiting Solar Sail Satellite**
Polat H. C., Tekinalp O.
INTERNATIONAL JOURNAL OF AERONAUTICAL AND SPACE SCIENCES, cilt.24, sa.1, ss.274-283, 2023 (SCI-Expanded)

II. **Long term and safe relative orbit design for heterogeneous spacecraft clusters**
Yaglioglu B., TEKİNALP O.
Advances in Space Research, cilt.67, sa.11, ss.3546-3558, 2021 (SCI-Expanded)

III. **Quaternion-based nonlinear attitude control of quadrotor formations carrying a slung load**
Ariyibi S. O., TEKİNALP O.
AEROSPACE SCIENCE AND TECHNOLOGY, cilt.105, 2020 (SCI-Expanded)

IV. **Output-feedback control of linear time-varying and nonlinear systems using the forward propagating Riccati equation**
Prach A., TEKİNALP O., Bernstein D. S.
JOURNAL OF VIBRATION AND CONTROL, cilt.24, sa.7, ss.1239-1263, 2018 (SCI-Expanded)

V. **Solving Constrained Optimal Control Problems Using State-Dependent Factorization and Chebyshev Polynomials**
Gomroki M. M., Topputo F., Bernelli-Zazzera F., TEKİNALP O.
JOURNAL OF GUIDANCE CONTROL AND DYNAMICS, cilt.41, sa.3, ss.618-631, 2018 (SCI-Expanded)

VI. **Infinite-Horizon Linear-Quadratic Control by Forward Propagation of the Differential Riccati Equation**
Prach A., TEKİNALP O., Bernstein D. S.
IEEE CONTROL SYSTEMS MAGAZINE, cilt.35, sa.2, ss.78-93, 2015 (SCI-Expanded)

VII. **A new multiobjective simulated annealing algorithm**
Tekinalp O., Karsli G.
JOURNAL OF GLOBAL OPTIMIZATION, cilt.39, sa.1, ss.49-77, 2007 (SCI-Expanded)

VIII. **A new steering law for redundant control moment gyroscope clusters**
Tekinalp O., Yavuzoglu E.
AEROSPACE SCIENCE AND TECHNOLOGY, cilt.9, sa.7, ss.626-634, 2005 (SCI-Expanded)

IX. **A layerwise approach to piezo-electric plates accounting for adhesive flexibility and delaminated regions**
Erturk C., Tekinalp O.
COMPUTERS & STRUCTURES, cilt.83, ss.279-296, 2005 (SCI-Expanded)

X. **Simulated annealing for missile optimization: Developing method and formulation techniques**
Tekinalp O., Bingol M.
JOURNAL OF GUIDANCE CONTROL AND DYNAMICS, cilt.27, sa.4, ss.616-626, 2004 (SCI-Expanded)

XI. **Tilt duct vertical takeoff and landing uninhabited aerial vehicle concept design study**
Armutcuoglu O., Kavsaoglu M., Tekinalp O.
JOURNAL OF AIRCRAFT, cilt.41, sa.2, ss.215-223, 2004 (SCI-Expanded)

XII. **Turkish Small Satellite Program: Goals and policies**
Askar M., Tekinalp O.
ACTA ASTRONAUTICA, cilt.46, ss.375-378, 2000 (SCI-Expanded)

XIII. **Free bending vibrations of adhesively bonded orthotropic plates with a single lap joint**
Yuceoglu U., Toghi F., Tekinalp O.
JOURNAL OF VIBRATION AND ACOUSTICS-TRANSACTIONS OF THE ASME, cilt.118, sa.1, ss.122-134, 1996 (SCI-Expanded)

## Diğer Dergilerde Yayınlanan Makaleler

I. **Sequential Orbit Determination Verification for Geostationary Satellites**
KÖKER A., TEKİNALP O., YILMAZ Ü. C., ŞAKACI C.
Advances in Astronautical Sciences, cilt.175, ss.3227-3244, 2021 (Hakemli Dergi)

II. **Mission Analysis of a New Solar Sail Satellite Concept at Low Earth Orbit**
POLAT H. C., TEKİNALP O.
Advances in Astronautical Sciences, cilt.175, ss.2387-2406, 2021 (Hakemli Dergi)

III. **Effects of geometric and process parameters on drill transverse vibrations**
Tekinalp O., Galip Ulsoy A.
Journal of Manufacturing Science and Engineering, Transactions of the ASME, cilt.112, sa.2, ss.189-194, 1990 (Scopus)

IV. **Modeling and finite element analysis of drill bit vibrations**
Tekinalp O., Ulsoy A.
Journal of Vibration and Acoustics, Transactions of the ASME, cilt.111, sa.2, ss.148-155, 1989 (Scopus)

V. **Modeling of drill bit transverse vibrations**
Tekinalp O., Ulsoy A. G.
Proceedings of SPIE - The International Society for Optical Engineering, cilt.955, ss.129-134, 1988 (Scopus)

VI. **Dynamic Modeling of Transverse Drill Bit Vibrations**
Ulsoy A. G., Tekinalp O., Lenz E.
CIRP Annals - Manufacturing Technology, cilt.33, sa.1, ss.253-258, 1984 (Scopus)

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. **Development and Validation of a Fast Mid-Fidelity Comprehensive Analysis Tool for Generic E-VTOL Configurations**
Şenipek M., Güngör O., TEKİNALP O.
48th European Rotorcraft Forum, Wintherthur, İsviçre, 6 - 08 Eylül 2022

II. **Trajectory Tracking Controller Design and Simulation of a Tethered Aircraft,**
Önen A. S., TEKİNALP O.
Airborne Wind Energy Conference (AWEC 2021), Milan, İtalya, 22 Haziran 2022

III. **Aiding Coarse Attitude with Image-Based Three-Axis Attitude Measurements Using Multiplicative Extended Kalman Filter for Small Satellites**
GÜZEL M. B., SÖKEN H. E., TEKİNALP O.
2021 AAS/AIAA Astrodynamics Specialists Conference, Amerika Birleşik Devletleri, 9 - 11 Ağustos 2021

IV. **BATCH ORBIT DETERMINATION COMPARISON FOR GEOSTATIONARY SATELLITES**
KÖKER A., AYDIN S., DAĞ E., YILMAZ Ü. C., TEKİNALP O.
2021 ESA Guidance Navigation and Control Conference, Amerika Birleşik Devletleri, 22 - 25 Haziran 2021

V. **Airborne Wind Energy: Trajectory Tracking Controller Design of a Tethered Aircraft**
Önen A. S., Tekinalp O.
Wind Energy Science Conference, Hannover, Almanya, 25 - 28 Mayıs 2021, cilt.10, ss.119-120

VI. **SEQUENTIAL ORBIT DETERMINATION VERIFICATION FOR GEOSTATIONARY SATELLITES**
Köker A., TEKİNALP O., Yılmaz Ü. C., Şakacı C.
AAS/AIAA Astrodynamics Specialist Conference, 2020, Virtual, Online, 9 - 12 Ağustos 2020, cilt.175, ss.3227-3244

VII. **Maneuver planning strategy for rapid response solar sail satellite concept**
POLAT H., TEKİNALP O.
AIAA Science and Technology Forum and Exposition, AIAA SciTech Forum 2021, Virtual, Online, 11 - 15 Ocak 2021, ss.1-17

VIII. **MISSION ANALYSIS OF A NEW SOLAR SAIL SATELLITE CONCEPT AT LOW EARTH ORBIT**
POLAT H., TEKİNALP O.
AAS/AIAA Astrodynamics Specialist Conference, 2020, Virtual, Online, 9 - 12 Ağustos 2020, cilt.175, ss.2387-2406

IX. **Image Based Attitude Determination Algorithm for Small Satellites: Design and Preliminary Results**
SÖKEN H. E., GÜZEL M. B., TEKİNALP O.
International Astronautical Federation, 2020 International Astronatucial Congress, Dubai, Sanal Yapıldı, Birleşik Arap Emirlikleri, 12 - 14 Ekim 2020

X. **STATION-KEEPING STRATEGY FOR A SOLAR SAIL SATELLITE AT LOW EARTH ELLIPTICAL ORBIT**
POLAT H. C., TEKİNALP O.
South East Europe Space Conference 2020, SEE UNIVERSE 2020, Belgrade, Sırbistan, 30 Eylül 2020

XI. **KÜÇÜK UYDULARDA YÖNELİM BELİRLEME FİLTRESİNİN KAMERA TABANLI ÖLÇÜMLER İLE DESTEKLENMESİ**
Söken H. E., Güzel M. B., Tekinalp O.
8. ULUSAL HAVACILIK VE UZAY KONFERANSI, Ankara, Türkiye, 9 - 11 Eylül 2020, ss.1-13

XII. **FIRDÖNDÜ UYDULAR İÇİN SÖZLE ÖLÇÜMLER KULLANARAK YÖNELİM BAĞIMSIZ GERÇEK ZAMANLI MANYETOMETRE KALİBRASYONU**
Çetin M. E., Söken H. E., Tekinalp O.
8. Ulusal Havacılık ve Uzay Konferansı, Ankara, Türkiye, 9 - 11 Eylül 2020, ss.1-8

XIII. **Oscillating Control Moment Gyroscope Mathematical Model Development, Verification and Results**
AKBULUT B., ARBERKLİ F., AZGIN K., TEKİNALP O.
International Symposium on Space Technology and Science, Fukui, Japonya, 15 - 21 Haziran 2019

XIV. **Imaging-based attitude determination algorithm for small satellites: Design and the preliminary results**
Güzel M. B., Söken H. E., Tekinalp O.
71st International Astronautical Congress, IAC 2020, Virtual, Online, 12 - 14 Ekim 2020, cilt.2020-October

XV. **A MISSION ANALYSIS SOFTWARE FOR SMALL SATELLITES**
KOPRÜCÜ S. U., ÖZÇELİK S. A., ALTUNAY Ş., YAĞLIOĞLU B., TEKİNALP O.
10th ANKARA INTERNATIONAL AEROSPACE CONFERENCE, Ankara, Türkiye, 18 - 20 Eylül 2019

XVI. **INCORPORATING REAL LIFE DESIGN PROBLEMS INTO THE AEROSPACE CURRICULUM**
TEKİNALP O.
10TH ANKARA INTERNATIONAL AEROSPACE CONFERENCE, Ankara, Türkiye, 18 - 20 Eylül 2019

XVII. **SCATTER AND SENSITIVITY ANALYSIS OF A PROJECTILE MODELED UNDER MAGNUS EFFECT**
MUHİDDİNOĞLU A., YAYLA K., TEKİNALP O.
10th ANKARA INTERNATIONAL AEROSPACE CONFERENCE, Ankara, Türkiye, 18 - 20 Eylül 2019

XVIII. **LATERAL-DIRECTIONAL CONTROL OF A HIGHLY MANEUVERABLE JET AIRCRAFT BASED ON COMBINATION OF MODAL AND OPTIMAL CONTROL THEORY**
MESCE V., TEKİNALP O.
10th ANKARA INTERNATIONAL AEROSPACE CONFERENCE, Ankara, Türkiye, 18 - 20 Eylül 2019

XIX. **Long Term and Safe Relative Orbit Design for Heterogenously Distributed Spacecraft Clusters**
YAĞLIOĞLU B., TEKİNALP O.
International Workshop on Satellite Constellations and Formation Flying, Glasgow, Birleşik Krallık, 16 - 19 Temmuz 2019

XX. **Slew Maneuver Control of Flexible Spacecraft**
ALTINIŞIK S., TEKİNALP O.
8TH EUROPEAN CONFERENCE FOR AERONAUTICS AND SPACE SCIENCES (EUCASS), Madrid, İspanya, 1 - 04 Temmuz 2019

XXI. **Passively Safe Relative Orbit Configurations over LongTime Intervals for Heterogeneously Distributed SpacecraftClusters**
YAĞLIOĞLU B., TEKİNALP O.
8TH EUROPEAN CONFERENCE FOR AERONAUTICS AND SPACE SCIENCES (EUCASS), Madrid, İspanya, 1 - 04 Temmuz 2019

XXII. **Control of a Quadrotor Formation Carrying a Slung Load Using Flexible Bars**
TEKİNALP O., ARIYIBI S.
AIAA Aviation 2019 Forum, Dallas, Texas, Amerika Birleşik Devletleri, 17 - 21 Haziran 2019

XXIII. **Safe Spacecraft Rendezvous Using Dual Quaternions on Time-Dependent Trajectories Generated by Model Predictive Control**
TEKİNALP O., BÜYÜKKOÇAK A. T.
AIAA Scitech 2019 Forum, San Diego, California, Amerika Birleşik Devletleri, 7 - 11 Ocak 2019

XXIV. **Oscillating Control Moment Gyroscope Experimental Results**
AKBULUT B., ARBERKLİ F., AZGIN K., TEKİNALP O.
AIAA Scitech 2019 Forum, San Diego, California, Amerika Birleşik Devletleri, 7 - 11 Ocak 2019

XXV. **Formation Flight Design near Sun-Earth Collinear Libration Points under the Effect of Disturbances**
Kutlu A., TEKİNALP O.
9th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Türkiye, 11 - 14 Haziran 2019, ss.137-144

XXVI. **A Multi-National Multi-Institutional Educaiton Framework: APSCO SSS-2B CubeSat Project**
Yaglioglu B., Atas O., Kahraman D., Kose S., TEKİNALP O., Suer M.
9th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Türkiye, 11 - 14 Haziran 2019, ss.553-557

XXVII. **Solar Sail Application with a Proposed Low Earth Orbit Mission Concept**
Polat H. C., TEKİNALP O.
9th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Türkiye, 11 - 14 Haziran 2019, ss.285-291

XXVIII. **TRACKING CONTROL OF SPACECRAFT ATTITUDE AND POSITION ON TIME DEPENDENT TRAJECTORIES USING DUAL QUATERNIONS**
BÜYÜKKOÇAK A. T., TEKİNALP O.
AAS/AIAA Astrodynamics Specialist Conference, Utah, Amerika Birleşik Devletleri, 19 - 23 Ağustos 2018, cilt.167, ss.1411-1422

XXIX. **SAFE SPACECRAFT RENDEZVOUS WITH CONSTRAINED MODEL PREDICTIVE CONTROL**
BÜYÜKKOÇAK A. T., TEKİNALP O.
AAS/AIAA Astrodynamics Specialist Conference, Utah, Amerika Birleşik Devletleri, 19 - 23 Ağustos 2018, cilt.167, ss.883-895

XXX. **Safe Spacecraft Rendezvous with Constraint Model Predictive Control**
TEKİNALP O., BÜYÜKKOÇAK A. T.
AIAA/ American Astronautical Society Astrodynamics Specialst Conference, Snowbird, Utah, Amerika Birleşik

Devletleri, 19 - 23 Ağustos 2018

XXXI. **Orbit Estimation Strategy for Low Earth Orbit and Geostationary Satellites**
TEKİNALP O., KÖKER A.
AIAA/American Astronautıcal Socıety, 2018 Astrodynamics Specialst Conference, Snowbird, Utah, Amerika Birleşik
Devletleri, 19 - 23 Ağustos 2018

XXXII. **Modeling and Control of Quadrotor Formations Carrying a Slung Load**
ARIYIBI S., TEKİNALP O.
2018 AIAA Information Systems-AIAA Infotech @ Aerospace, Kissimmee, Florida, Amerika Birleşik Devletleri, 8 -
12 Ocak 2018

XXXIII. **A Hypothetical Mechanical Design for Vibrating Mass Control Moment Gyroscopes**
BURAK A., ARBERKLİ F., TEKİNALP O., AZGIN K.
2018 Space Flight Mechanics Meeting, Kissimmee, Florida, Amerika Birleşik Devletleri, 8 - 12 Ocak 2018

XXXIV. **A multi-national multi-institutional education framework: APSCO SSS-2B CubeSat Project**
Yaglioglu B., AtaÅŸ Ã., Kahraman D., KÃ¶se S., Koru A., TEKİNALP O., SÃ¼er M., Phrompichai S.
69th International Astronautical Congress: #InvolvingEveryone, IAC 2018, Bremen, Almanya, 1 - 05 Ekim 2018,
cilt.2018-October

XXXV. **EFFECTS OF ROTOR GEOMERY ON THE PERFORMANCE OF VIBRATING MASS CONTROL MOMENT
GYRPOSCOPES**
Arberkli F., Akbulut B., AZGIN K., TEKİNALP O.
AAS/AIAA Astrodynamics Specialist Conference, Washington, Amerika Birleşik Devletleri, 20 - 24 Ağustos 2017,
cilt.162, ss.247-258

XXXVI. **Nonlinear optimal adaptive transition control of a tolt-prop VTOL UAV**
Senipek M., YAYLA M., Gungor O., Cevher L., KUTAY A. T., TEKİNALP O.
44th European Rotorcraft Forum 2018, ERF 2018, Delft, Hollanda, 18 - 21 Eylül 2018, cilt.2, ss.952-964

XXXVII. **Angle Only Orbit Determination Using a Telescope System**
KÖKER A., TEKİNALP O.
9th Ankara International Aerospace Conference, 20 - 22 Eylül 2017

XXXVIII. **Constrained Model Predictive Control for Spacecraft Rendezvous**
BÜYÜKKOÇAK A. T., ALTINIŞIK S., TEKİNALP O.
9th Ankara International Aerospace Conference, 20 - 22 Eylül 2017

XXXIX. **Experimental Characterization and Validation of Vibrating Rotor Control Moment Gyroscope**
AKBULUT B., ARBERKLİ F., AZGIN K., TEKİNALP O.
AIAA SPACE and Astronautics Forum and Exposition, Orlando, FL, Amerika Birleşik Devletleri, 12 - 14 Eylül 2017

XL. **Effects of Rotor Geometry on the Performance of Vibrating Mass Control Moment Gyroscopes**
ARBERKLİ F., AKBULUT B., AZGIN K., TEKİNALP O.
AAS/AIAA Astrodynamics Specialist Conference, Columbia River George, Stevenson, WA, Amerika Birleşik
Devletleri, 20 - 24 Ağustos 2017

XLI. **Experimental Investigation of Optimal Gap Distance between Rotors of a Quadrotor UAV**
KAYA D. D., KUTAY A. T., TEKİNALP O.
AIAA Aviation Forum 2017, Atmospheric Flight Mechanics Conference, 5 - 09 Haziran 2017

XLII. **A SIMPLIFIED MODEL FOR VIBRATING MASS CONTROL MOMENT GYROSCOPE**
Akbulut B., Arberkli F., AZGIN K., TEKİNALP O.
27th AAS/AIAA Space Flight Mechanics Meeting, San-Antonio, Kuzey Mariana Adaları, 5 - 09 Şubat 2017, cilt.160,
ss.2961-2974

XLIII. **ORBIT TRANSFER OF AN EARTH ORBITING SOLAR SAIL CUBESAT**
Atas O., TEKİNALP O.
27th AAS/AIAA Space Flight Mechanics Meeting, San-Antonio, Kuzey Mariana Adaları, 5 - 09 Şubat 2017, cilt.160,
ss.2201-2212

XLIV. **Main Rotor Downwash Effect on Seperation Characteristics of External Stores**
Kapulu Ö., TEKİNALP O.
AIAA SciTech 2017, Atmospheric Flight Mechanics Conference, 9 - 13 Ocak 2017

XLV. **Main rotor downwash effect on separation characteristics of external stores**
Kapulu O., TEKİNALP O.
AIAA Atmospheric Flight Mechanics Conference, 2017, Colorado, Amerika Birleşik Devletleri, 5 - 09 Haziran 2017

XLVI. **A Novel Flight Control Algorithm for Multicopters**
TEKİNALP O., Kumbasar S.
30th Congress of International Council of Aeronautical Sciences, 26 - 29 Eylül 2016

XLVII. **Tracking Control of Spacecraft Attitude on Time Dependent Trajectories**
TEKİNALP O., TEKİNALP A.
Space 2016, AIAA/AAS Astrodynamics Specialist Conference, Long Beach, CA, Amerika Birleşik Devletleri, 13 - 16 Eylül 2016

XLVIII. **Vibrating Mass Control Moment Gyroscope Dynamic Model Validation**
AKBULUT B., ARBERKLİ F., AZGIN K., TEKİNALP O.
AIAA/AAS Astrodynamics Specialist Conference, Long Beach, California, Amerika Birleşik Devletleri, 13 - 16 Eylül 2016

XLIX. **Propulsion System Selection and Modeling for a Quadrotor with Search and Rescue Mission**
KAYA D., KUTAY A. T., KURTULUŞ D. F., TEKİNALP O., ŞİMŞEK İ., SOYSAL S., HOSGİT G.
54th AIAA Aerospace Sciences Meeting, San Diego, Amerika Birleşik Devletleri, 4 - 08 Ocak 2016

L. **Nonlinear Aircraft Flight Control Using Forward Propagating Riccati Equation**
PRACH A., TEKİNALP O., BERNSTEIN D.
AIAA SCITECH 2016, SAN DIEGO, CA, Amerika Birleşik Devletleri, 4 - 08 Ocak 2016

LI. **Comparison of Time and Frequency Domain Identification of Fixed Wing UAV**
ŞİMSEK O., AS H., ORHAN E., TEKİNALP O.
AIAA, SCITECH 2016, SAN DIEGO, CA, Amerika Birleşik Devletleri, 4 - 08 Ocak 2016

LII. **Design and control of a micro UAV**
Kaya D., Büyükkoçak A. T., KUTAY A. T., TEKİNALP O.
AIAA Atmospheric Flight Mechanics Conference, 2016, California, Amerika Birleşik Devletleri, 4 - 08 Ocak 2016

LIII. **Nonlinear aircraft flight control using the forward propagating riccati equation**
PRACH A., TEKİNALP O., Bernstein D. S.
AIAA Guidance, Navigation, and Control Conference, 2016, California, Amerika Birleşik Devletleri, 4 - 08 Ocak 2016

LIV. **A novel flight contorl algorithm for multicopters**
TEKİNALP O., Kumbasar S.
30th Congress of the International Council of the Aeronautical Sciences, ICAS 2016, Daejeon, Güney Kore, 25 - 30 Eylül 2016

LV. **Comparison of time and frequency domain identification of a fixed-wing UAV**
Simsek O., Haser S. A., Orhan E. H., TEKİNALP O.
AIAA Atmospheric Flight Mechanics Conference, 2016, California, Amerika Birleşik Devletleri, 4 - 08 Ocak 2016

LVI. **NONLINEAR TRACKING ATTITUDE CONTROL OF SPACECRAFT ON TIME DEPENDENT TRAJECTORIES**
TEKİNALP O., Gomroki M. M., Atas O.
AAS/AIAA Astrodynamics Specialist Conference, Colorado, Amerika Birleşik Devletleri, 11 - 13 Ağustos 2015, cilt.156, ss.1585-1597

LVII. **SOLAR SAIL SPACECRAFT BOOM VIBRATION DURING DEPLOYMENT AND DAMPING MECHANISMS**
Atas O., Demiral E., TEKİNALP O.
AAS/AIAA Astrodynamics Specialist Conference, Colorado, Amerika Birleşik Devletleri, 11 - 13 Ağustos 2015, cilt.156, ss.2189-2202

LVIII. **Solar Sail Spacecraft Boom Vibration During Deployment and Damping Analysis**
TEKİNALP O., DEMİREL E., ATAŞ Ö.
AAS/AIAA ASTRODYNAMICS SPECIALIST CONFERENCE, Vail, Colorado, Amerika Birleşik Devletleri, 9 - 13 Ağustos 2015

LIX. **Nonlinear Tracking Attitude Control on Time Dependent Trajectories**
TEKİNALP O., GOMROKI M. M., ATAŞ Ö.
AAS/AIAA Astrodynamics Specialist Conference, Vail, Colorado, Amerika Birleşik Devletleri, 9 - 13 Ağustos 2015

LX. **Two ASRE Approaches with Application to Spacecraft Coulomb Formations**
Gomroki M. M., Topputo F., TEKİNALP O., Bernelli-Zazzera F.
AstroNet-II International Final Conference, Tossa de Mar, İspanya, 15 - 19 Haziran 2015, cilt.44, ss.109-120

LXI. **Vibrationally Excited Satellite Attitude Actuator: a Feasibility Study**
Akbulut B., TEKİNALP O., AZGIN K.
7th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Türkiye, 16 - 19 Haziran 2015, ss.183-186

LXII. **Vibrationally Excited Satellite Atttiude Actuator A Feasibity Study**
TEKİNALP O., AKBULUT B., AZGIN K.
RAST 2015, Recent Advances on Space Technologies, İstanbul, Türkiye, 16 - 19 Haziran 2015

LXIII. **Modeling and Controller Design of a VTOL UAV**
Onen A. S., Cevher L., Şenipek M., Mutlu T., Gungor O., Uzunlar I. O., Kurtulus D. F., Tekinalp O.
International Conference on Unmanned Aircraft Systems (ICUAS), Colorado, Amerika Birleşik Devletleri, 9 - 12 Haziran 2015, ss.329-337

LXIV. **Fuzzy Logic Guidance of Formation Flight**
Kumbasar S., TEKİNALP O.
International Conference on Unmanned Aircraft Systems (ICUAS), Colorado, Amerika Birleşik Devletleri, 9 - 12 Haziran 2015, ss.167-175

LXV. **ARCHITECTURES FOR VIBRATING MASS ATTITUDE CONTROL ACTUATORS**
Akbulut B., TEKİNALP O.
25th American-Astronautical-Society/American Institute of Aeronautics and Astronautics Space Flight Mechanics Meeting, Virginia, Amerika Birleşik Devletleri, 11 - 15 Ocak 2015, cilt.155, ss.3509-3528

LXVI. **STATE DEPENDENT RICCATI EQUATION CONTROL OF COLLINEAR SPINNING THREE-CRAFT COULOMB FORMATIONS**
Gomroki M. M., TEKİNALP O.
25th American-Astronautical-Society/American Institute of Aeronautics and Astronautics Space Flight Mechanics Meeting, Virginia, Amerika Birleşik Devletleri, 11 - 15 Ocak 2015, cilt.155, ss.643-657

LXVII. **ATTITUDE CONTROL OF AN EARTH ORBITING SOLAR SAIL SATELLITE TO PROGRESSIVELY CHANGE THE SELECTED ORBITAL ELEMENT**
Atas O., TEKİNALP O.
25th American-Astronautical-Society (AAS)/American-Institute-of-Aeronautics-and-Astronautics (AIAA) Space Flight Mechanics Meeting, Virginia, Amerika Birleşik Devletleri, 11 - 15 Ocak 2015, cilt.155, ss.3529-3546

LXVIII. **State Dependent Riccati Equation Control of Spinning Three Craft Coulomb Formations**
TEKİNALP O., MOHAMMAD MEHDI G.
AIAA/AAS space Flight Mechanics Meeting, Williamsburg, Virginia, Amerika Birleşik Devletleri, 12 - 15 Ocak 2015

LXIX. **Architecturesfor Vibrating Mass Atttitude Control Actuators**
TEKİNALP O., BURAK A.
AIAA/AAS Space Flight Mechanics Meeting, Williamsburg, Virginia, Amerika Birleşik Devletleri, 12 - 15 Ocak 2015

LXX. **Attitude Control of an Earth Orbiting Solar Sail Satellite to Progressively Change the Selected Orbital Elements**
TEKİNALP O., ATAS Ö.
AAS/AIAA Space Flight Mechanics Meeting, Williamsburg, Virginia, Amerika Birleşik Devletleri, 12 - 15 Ocak 2015

LXXI. **System Identification and Handling Quality Analysis of a UAV from Flight Test Data**
TEKİNALP O., ŞİMŞEK O.
AIAA Atmospheric Flight Mechanics Conference, Kissimmee, Florida, Amerika Birleşik Devletleri, 5 - 09 Ocak 2015

LXXII. **Nonlinear Guidance of Aircraft Formations**
TEKİNALP O., Segun A.
AIAA SciTech 2015 Konferansi, Orlando, Florida, Amerika Birleşik Devletleri, 5 - 09 Ocak 2015

LXXIII. **Nonlinear Control to Maneuver Two Craft Coulomb Formation at Libration Points**
TEKİNALP O., MOHAMMAD MEHDI G.
AIAA ScitTech 2015 Konferansı, Orlando, Florida, Amerika Birleşik Devletleri, 5 - 09 Ocak 2015

LXXIV. **SDRE Based Guidance and Flight Control of Aircraft Formations**
TEKİNALP O., SARPER K.
AIAA ScitTech 2015 Konferansı, Orlando, Florida, Amerika Birleşik Devletleri, 5 - 09 Ocak 2015

LXXV. **Attitude control mechanization to de-orbit satellites using solar sails**
TEKİNALP O., Atas O.
2nd International Academy of Astronautics Conference on Dynamics and Control of Space Systems, DyCoSS 2014, Rome, İtalya, 24 - 26 Mart 2014, cilt.153, ss.673-684

LXXVI. **Nonlinear control to maneuver a two-craft coulomb formation at libration points**
Gomroki M. M., TEKİNALP O.
AIAA Guidance, Navigation, and Control Conference 2015, MGNC 2015 - Held at the AIAA SciTech Forum 2015, Florida, Amerika Birleşik Devletleri, 5 - 09 Ocak 2015

LXXVII. **Nonlinear guidance of unmanned aircraft formations**
Ariyib S., TEKİNALP O.
AIAA Guidance, Navigation, and Control Conference 2015, MGNC 2015 - Held at the AIAA SciTech Forum 2015, Florida, Amerika Birleşik Devletleri, 5 - 09 Ocak 2015

LXXVIII. **Faux-Riccati Synthesis of Nonlinear Observer-Based Compensators for Discrete-Time Nonlinear Systems**
Prach A., TEKİNALP O., Bernstein D. S.
53rd IEEE Annual Conference on Decision and Control (CDC), Los-Angeles, Şili, 15 - 17 Aralık 2014, ss.854-859

LXXIX. **A Numerical Comparison of Frozen-Time and Forward-Propagating Riccati Equations for Stabilization of Periodically Time-Varying Systems**
Prach A., TEKİNALP O., Bernstein D. S.
American Control Conference, Oregon, Amerika Birleşik Devletleri, 4 - 06 Aralık 2014, ss.5633-5638

LXXX. **Response Surface Based Performance Analysis of an Air-Defense Missile System**
Gunaydin K., Cimen T., TEKİNALP O.
IEEE Aerospace Conference, Montana, Amerika Birleşik Devletleri, 1 - 08 Mart 2014

LXXXI. **Design of a full state SDRE tracking controller for an unmanned aircraft**
PRACH A., TEKİNALP O.
AIAA Guidance, Navigation, and Control Conference 2014 - SciTech Forum and Exposition 2014, National Harbor, MD, Amerika Birleşik Devletleri, 13 - 17 Ocak 2014

LXXXII. **Relative position control of a two-satellite formation using the SDRE control method**
Gomroki M. M., TEKİNALP O.
24th AAS/AIAA Space Flight Mechanics Meeting, 2014, Mexico, Amerika Birleşik Devletleri, 26 - 30 Ocak 2014, cilt.152, ss.235-254

LXXXIII. **Maneuvering of two-craft coulomb formation using ASRE method**
Gomroki M. M., TEKİNALP O.
AIAA/AAS Astrodynamics Specialist Conference 2014, San Diego, CA, Amerika Birleşik Devletleri, 4 - 07 Ağustos 2014

LXXXIV. **Performance evaluation of sdre-based spacecraft attitude estimation and control**
Choukroun D., TEKİNALP O.
54th Israel Annual Conference on Aerospace Sciences, IACAS 2014, Tel-Aviv and Haifa, İsrail, 19 - 20 Şubat 2014, cilt.1, ss.609-634

LXXXV. **Development of a state dependent ricatti equation based tracking flight controller for an unmanned aircraft**
PRACH A., TEKİNALP O.
AIAA Guidance, Navigation, and Control (GNC) Conference, Boston, MA, Amerika Birleşik Devletleri, 19 - 22 Ağustos 2013

LXXXVI. **DYNAMIC STABILITY FLIGHT TESTS OF REMOTE SENSING MEASUREMENT CAPABLE AMPHIBIOUS UNMANNED AERIAL VEHICLE (A-UAV)**
Yayla M., Sarsılmaz S. B., Mutlu T., Coşgun V., Kurtuluş B., Kurtuluş D. F., Tekinalp O.
7. ANKARA INTERNATIONAL AEROSPACE CONFERENCE, Ankara, Türkiye, 11 - 13 Eylül 2013

LXXXVII. **Development of a State Dependent Riccati Equation Based Tracking Flight Controller for an Unmanned Aircraft**
TEKİNALP O., PRACH A.
2013 AIAA Guidance Navigation and Control Conference, 19 - 22 Ağustos 2013

LXXXVIII. **Spacecraft Attitude and Rate Estimation Using the SDRE Method**
CHOUKROUN D., TEKİNALP O.
5the European Conference on Aeronautical and Space Sciences, 1 - 05 Temmuz 2013

LXXXIX. **Attitude Control of Satellites with De-Orbiting Solar Sails**
TEKİNALP O., Atas O.
6th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Türkiye, 12 - 14 Haziran 2013, ss.347-351

XC. **Momentum envelopes and steering of control moment gyroscope clusters**
TEKİNALP O.
AIAA/AAS Astrodynamics Specialist Conference 2012, Minneapolis, MN, Amerika Birleşik Devletleri, 13 - 16 Ağustos 2012

XCI. **Multiobjective Conceptual Design of an Unmanned Combat Air Vehicle**
TEKİNALP O., ÇAVUŞ N.
12th AIAA Aviation Technology, Integration, and Operations (ATIO) Conference and 14th AIAA/ISSMO Multidisciplinary Analysis and Optimization Conference, Indianapolis, Indiana, Amerika Birleşik Devletleri, 17 - 19 Eylül 2012

XCII. **Fault Tolerant Control of an Over Actuated UAV**
TEKİNALP O., YAVRUCUK İ.
AIAAGuidance, Navigation, and Control Conference, 8 - 11 Temmuz 2011

XCIII. **Gain scheduled inverse optimal control for fine pointing of a spacecraft camera**
TEKİNALP O., KAYASTHA S., ÖZGÖREN K., NADJİM H.
Proceedings of 5th International Conference on Recent Advances in Space Technologies - RAST2011, Istanbul, Turkey, 9 - 11 Haziran 2011

XCIV. **Attitude control of a piezo-strut mounted camera on a spacecraft with deployed solar panels**
Kayastha S., Akbulut B., TEKİNALP O., ÖZGÖREN M. K.
2011 IEEE Aerospace Conference, AERO 2011, Big Sky, MT, Amerika Birleşik Devletleri, 5 - 12 Mart 2011

XCV. **COMBINED USE OF CONTROL MOMENT GYROS AND MAGNETIC TORQUE RODS FOR SATELLITE ATTITUDE CONTROL**
Elmas T. C., TEKİNALP O.
ASME Dynamic Systems and Control Conference, Cambridge, Kanada, 12 - 15 Eylül 2010, ss.189-196

XCVI. **Quaternion Based State Dependent Ricatti Equation Control of a Satellite Camera on Piezoelectric Actuators**
TEKİNALP O., ÖZGÖREN K., KAYASHTA S.
AIAA/AAS Astrodynamics Specialist Conference, Toronto, Ontario, Canada, 2 - 05 Ağustos 2010

XCVII. **POINTING PERFORMANCE CONTROL OF A SPACECRAFT CAMERA USING PIEZOELECTRIC ACTUATORS**
Kayastha S., TEKİNALP O., Ozgoren K.
20th AAS/AIAA Spaceflight Mechanics Meeting, California, Amerika Birleşik Devletleri, 14 - 18 Şubat 2010, cilt.136, ss.661-663

XCVIII. **ATTITUDE CONTROL OF MULTIPLE RIGID BODY SPACECRAFT WITH FLEXIBLE HINGE JOINTS**
Akbulut B., ÖZGÖREN M. K., TEKİNALP O.
20th AAS/AIAA Spaceflight Mechanics Meeting, California, Amerika Birleşik Devletleri, 14 - 18 Şubat 2010, cilt.136, ss.2477-2478

XCIX. **Flight Control System Design and Integration for a Small UAV Test Bed**
TEKİNALP O., YAVRUCUK İ.
AIAC 2009, 17 - 19 Ağustos 2009

C. **Helicopter Flight Simulation and Automatic Flight Control System Design**
TEKİNALP O., YAVRUCUK İ.

AIAC 2009, 17 - 19 Ağustos 2009

CI. **Simulation and Flight Control of a Tilt Duct UAV**
TEKİNALP O., ÜNLÜ T., YAVRUCUK İ.
Modeling and Simulation Technologies Conference, Chicago, Amerika Birleşik Devletleri, 10 - 12 Ağustos 2009

CII. **Gimbal Angle Restricted Control Moment Gyroscope Clusters**
TEKİNALP O., Elmas T., YAVRUCUK İ.
4th International Conference on Recent Advances in Space Technologies, İstanbul, Türkiye, 11 - 13 Haziran 2009, ss.585-590

CIII. **SATELLITE ATTITUDE CONTROL USING DISSIMILAR REDUNDANT ACTUATORS**
Kahraman O., TEKİNALP O.
AAS/AIAA 19th Space Flight Mechanics Meeting, Savannakhet, Laos, 8 - 12 Şubat 2009, cilt.134, ss.2303-2315

CIV. **POINTING PERFORMANCE INVESTIGATION OF A MULTIPLE RIGID BODY SPACECRAFT**
Akbulut B., ÖZGÖREN M. K., TEKİNALP O.
AAS/AIAA 19th Space Flight Mechanics Meeting, Savannakhet, Laos, 8 - 12 Şubat 2009, cilt.134, ss.1029-1030

CV. **KALMAN FILTER BASED MULTIMODE ATTITUDE DETERMINATION ALGORITHMS FOR A LEO SATELLITE**
Kutlu A., TEKİNALP O.
AAS/AIAA 19th Space Flight Mechanics Meeting, Savannakhet, Laos, 8 - 12 Şubat 2009, cilt.134, ss.1551-1566

CVI. **Attitude determination and rotational motion parameters identification of a LEO satellite through magnetometer and sun sensor data**
Kutlu A., Haciyev C., TEKİNALP O.
3rd International Conference on Recent Advances in Space Technologies, İstanbul, Türkiye, 14 - 16 Haziran 2007, ss.458-459

CVII. **Spacecraft energy storage and attitude control**
Altay A., Tekinalp O.
2nd International Conference on Recent Advances in Space Technologies, İstanbul, Türkiye, 9 - 11 Haziran 2005, ss.201-206

CVIII. **Trajectory optimization of advanced launch system**
Karsli G., Tekinalp O.
2nd International Conference on Recent Advances in Space Technologies, İstanbul, Türkiye, 9 - 11 Haziran 2005, ss.374-378

CIX. **Modeling and robust control of a spinning missile**
Semerci B., Merttopcuoglu O., TEKİNALP O.
22nd International Conference on Modelling Identification and Control, Innsbruck, Avusturya, 10 - 13 Şubat 2003, ss.584-590

CX. **Flight control of a tilt-duct VTOL UAV**
Okan A., TEKİNALP O., Kavsaoğlu M.
1st UAV Conference 2002, Portsmouth, VA, Amerika Birleşik Devletleri, 20 - 23 Mayıs 2002

CXI. **Flight Control of a Tilt-Duct UAV**
TEKİNALP O., KAVSAOĞLU M. Ş., OKAN A.
1st UAV Conference, Portsmouth, Virginia, Amerika Birleşik Devletleri, 20 - 23 Mayıs 2002

CXII. **Modeling of laminated plates with surface bonded piezoelectric sensors and actuators**
Erturk C., TEKİNALP O.
43rd Structures, Structural Dynamics and Materials Conference, Denver, CO, Amerika Birleşik Devletleri, 22 - 25 Nisan 2002, cilt.3, ss.1914-1924

CXIII. **Artificial neural networks for transfer aligment and calibration of inertial navigation systems**
TEKİNALP O., ÖZEMRE M.
AIAA Guidance, Navigation, and Control Conference and Exhibit, Montreal,Canada, 6 - 09 Ağustos 2001

CXIV. **NEURAL NETWORK BASED ORBIT PREDICTION FOR A GEOSTATIONARY SATELLITE**
KUTAY A. T., Yurdanur T., Tulunay E., TEKİNALP O.
Automatic Systems for Building the Infrastructure in Developing Countries 2001. Knowledge and Technology

Transfer, Ohrid, Makedonya, 21 - 23 Mayıs 2001, ss.3-14

CXV. **Simulated annealing for missile trajectory planning and multidisciplinary missile design optimization**
TEKİNALP O., Utalay S.
38th Aerospace Sciences Meeting and Exhibit 2000, Reno, NV, Amerika Birleşik Devletleri, 10 - 13 Ocak 2000

CXVI. **Minimum fuel station keeping maneuver strategy for Turksat geostationary satellites**
Erdal T., Tekinalp O., Tulunay Y.
3rd International Symposium on Reducing the Cost of Spacecraft Ground Systems and Operations, Tainan, Tayvan, 22 - 24 Mart 1999, cilt.3, ss.33-40

CXVII. **Flight mechanics analysis of a tilt-rotor UAV**
Okan A., TEKİNALP O., Kavsaoğlut M., Armutcuoğlu >., Tulunay E.
24th Atmospheric Flight Mechanics Conference, 1999, Oregon, Amerika Birleşik Devletleri, 9 - 11 Ağustos 1999, ss.681-691

CXVIII. **An attitude control sysytem design based on the TURKSAT-1B geostationary satellite**
Tekinalp O., Uslu O., Tulunay Y.
COSPAR Colloquium on Microsatellites as Research Tools, Tainan, Tayvan, 14 - 17 Aralık 1997, cilt.10, ss.143-151

CXIX. **Interacting fuzzy multimodel intelligent tracking system for swift target manoeuvres**
Gokkus L., Erkmen A., Tekinalp O.
1997 IEEE/RSJ International Conference on Intelligent Robot and Systems - Innovative Robotics for Real-World Applications (IROS 97), Grenoble, Fransa, 7 - 11 Eylül 1997, ss.766-771

CXX. **Tracking a swift target using the interacting fuzzy multi-model algorithm**
Gokkus L., Erkmen A., Tekinalp O.
1997 IEEE International Symposium on Intelligent Control, İstanbul, Türkiye, 16 - 18 Temmuz 1997, ss.331-336

CXXI. **Free bending vibrations of multi-layer, orthotropic, bonded, composite plate system**
Yuceoglu U., Toghi F., TEKİNALP O.
Proceedings of the 1995 ASME International Mechanical Congress and Exposition, San-Francisco, Kostarika, 12 - 17 Kasım 1995, cilt.46, ss.83-94

CXXII. **Free vibrations of rotating, multi-layer, adhesively bonded beams**
Yuceoglu U., TEKİNALP O., YAVUZ A.
Proceedings of the 1994 International Mechanical Engineering Congress and Exposition, Chicago, IL, USA, 6 - 11 Kasım 1994, cilt.18, ss.143-150

CXXIII. **NATURAL VIBRATION CHARACTERISTICS OF ROTATING, COMPOSITE MULTI-LAYER BEAMS AND BLADES**
TEKINALP O., YUCEOGLU U., YAVUZ A.
5th International Conference on Recent Advances in Structural Dynamics, Southampton, Birleşik Krallık, 18 - 21 Temmuz 1994, ss.504-514

CXXIV. **Free vibrations of adhesively bonded composite, orthotropic plates**
Yuceoglu U., Toghi F., TEKİNALP O.
Proceedings of the 1993 ASME Winter Annual Meeting, New Orleans, LA, USA, 28 Kasım - 03 Aralık 1993, cilt.37, ss.297-307

CXXV. **Transient response of simply-supported, adhesively bonded orthotropic plates**
Toghi F., Yuceoglu U., TEKİNALP O.
Proceedings of the ASME Winter Conference, New Orleans, LA, USA, 28 Kasım - 03 Aralık 1993, ss.1-9

CXXVI. **Vibrations of two-layer, orthotrophic, beamlike strips connected by mechanical springs**
TEKİNALP O., Yuceoglu U., Caglayan N.
Winter Annual Meeting of the American Society of Mechanical Engineers, Dallas, TX, USA, 25 - 30 Kasım 1990, cilt.19, ss.67-72

CXXVII. **Modeling and finite element analysis of drill bit vibrations**
Tekinalp O., Ulsoy A.
Advances in Design Automation - 1989, Montreal, Kanada, 17 - 21 Eylül 1989, cilt.18-2, ss.61-68

CXXVIII. **Effects of geometric and process parameters on drill transverse vibrations**
Tekinalp O., Ulsoy A.

Sensors and Controls for Manufacturing - 1988, Chicago, MI, USA, 27 Kasım - 02 Aralık 1988, cilt.33, ss.33-40

CXXIX. **VIBRATION MODES AND FREQUENCIES OF TWIST DRILLS USING LASER HOLOGRAPHIC INTERFEROMETRY.**

MacBain J., Harding K., Tekinalp O.

Miami Beach, FL, USA, 17 - 22 Kasım 1985, cilt.18, ss.1-10

## Desteklenen Projeler

Kurtuluş D. F., Tekinalp O., Kayran A., Yaman Y., Gürses E., Çöker D., Yavrucuk I., Leblebicioğlu M. K., Konukseven E. I., Aksel M. H., et al., Şirket, ODTÜ-TAİ VLA projesi 1. faz, 2017 - 2024

Tekinalp O., Azgın K., TÜBİTAK Projesi, Titreşim Temelli Uydu Yönelim Denetimi Eyleyicisi Kavramsal Doğrulaması, 2015 - 2020

Tekinalp O., Kurtuluş D. F., Yaman Y., Şahin M., Sezer Uzol N., Ciğeroğlu E., Leblebicioğlu M. K., Ankaralı M. M., Diğer Özel Kurumlarca Desteklenen Proje, Küçük Otonom İnsansız Hava Aracı Geliştirme Projesi (KO-İHA), 2019 - 2019

Zeyrek M. T., Tekinalp O., TÜBİTAK Projesi, Orta Doğu Teknik Üniversitesi Ar-Ge Strateji Belgesi (Havacılık Ve Uzay), 2016 - 2017

TEKİNALP O., LELOĞLU U. M., TÜBİTAK Projesi, Orta Dou Teknik Üniversitesi Ar-Ge Strateji Belgesi (Havacılık Ve Uzay), 2016 - 2017

YAMAN Y., TEKİNALP O., Diğer Özel Kurumlarca Desteklenen Proje, ODTÜ Havacılık ve Uzay Mühendisliği Bölümünden Eğitim Hizmeti Alınması, 2016 - 2016

TEKİNALP O., Diğer Özel Kurumlarca Desteklenen Proje, Airbus A350 XWB uçağı A350 1000 serisi kanatçıkların ARGE falliyetinin incelenmesi, 2016 - 2016

TEKİNALP O., TÜBİTAK Projesi, Birlikte Sarkan Yük Tasıyan Kol Uçusundaki Quadrotorların Modellenmesi Ve Kontrolü, 2014 - 2016

## Etkinlik Organizasyonlarındaki Görevler

Tekinalp O., Kutay A. T., Perçin M., VTOL Aircraft Competition, Dikine Kalkan İnsansız Hava Araçları Yarışması, Sosyal Faaliyet Organizasyonu, Ankara, Türkiye, Ekim 2019

Tekinalp O., Perçin M., Kutay A. T., METU VTOL Aircraft Competetion 2, Sosyal Faaliyet Organizasyonu, Ankara, Türkiye, Ekim 2018

## Metrikler

Yayın: 149
Atıf (WoS): 212
Atıf (Scopus): 641
H-İndeks (WoS): 9
H-İndeks (Scopus): 14

## Ödüller

Kayran A., Yavrucuk İ., Gürses E., Konukseven E. İ., Tekinalp O., Çöker D., Kurtuluş D. F., Aksel H., Schmidt Ş. E., Yaman Y., et al., ODTÜ-Tusaş Çok Hafif Uçak (Very Light Aircraft (VLA)) Tasarım ve Geliştirme, Yüksek Öğretim Kurumu, Eylül 2019

## Akademi Dışı Deneyim

TUSAS Aerospace Industries, TAI-TEKNOKENT
METU, Aerospace Engineering Department
METU, Aerospace Engineering Department
TUSAS Aerospace Industries, TAI-Teknokent
METU, Aerospace Engineering Department
TUBITAK METU-BILTEN, Satellite Technologies Group
Roketsan Missile Industries
METU, Aeronautical Engineering Department
CASA Division Projectos, IDS: AFCS, Gethaffe, Madrid
University of Michigan, Mechanical Engr. and Appl. Mech. Dep
University of Michigan, Comprehensive Studies Programme
University of Michigan, Mech. Engr. and Appl. Mech. Dept.
Industrial Technology Institute, Flexible Manufacturing Lab.
University of Michigan, Mechanical Engr. Applied Mech. Dept.
Emek Insaat, Ankara
DUC Merkez Atolyesi, Ankara