

Prof.Dr. OZAN TEKİNALP

Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, University Of Michigan, Mechanical Engineering And Applied Mechanics Department, Amerika Birleşik Devletleri
1983 - 1988

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

Mesleki Deneyim

Bölüm Başkanı, Orta Doğu Teknik Üniversitesi, Mühendislik Fakültesi, Havacılık Ve Uzay Mühendisliği Bölümü, 2009 -
2018

Yönetilen Tezler

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

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

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

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

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

TEKİNALP O., Polynomial trajectory shaping guidance algorithm for multi-missile salvo attack, Yüksek Lisans, N.BAŞAK(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., Separation simulation for helicopter external stores and generation of safe separation envelopes, Yüksek Lisans, Ö.KAPULU(Öğrenci), 2015

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

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

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

TEKİNALP O., YAVRUCUK İ., Development of a UAV testbed, Yüksek Lisans, Z.ÇAKIR(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.İŞİK(Öğrenci), 2010

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

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

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

TEKİNALP O., A layerwise approach to modeling piezolaminated plates, Doktora, C.LEVENT(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., Optimization of north south station keeping manoeuvres for geostationary satellites, Yüksek Lisans, Z.YILDIZ(Öğrenci), 2001

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

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

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

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

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

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

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

TEKİNALP O., Modelling and control of beam type structures with surface bonded piezoelectric sensors and actuators, Yüksek Lisans, B.YAĞCI(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., Optimal trajectories for air-to-surface 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

- **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 İndekslerine Giren Dergi)
- **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, ss.1239-1263, 2018 (SCI İndekslerine Giren Dergi)
- **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, ss.618-631, 2018 (SCI İndekslerine Giren Dergi)
- **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, ss.78-93, 2015 (SCI İndekslerine Giren Dergi)
- **A new multiobjective simulated annealing algorithm**
Tekinalp O., Karsli G.

- JOURNAL OF GLOBAL OPTIMIZATION, cilt.39, ss.49-77, 2007 (SCI İndekslerine Giren Dergi)
A new steering law for redundant control moment gyroscope clusters
Tekinalp O., Yavuzoglu E.
- AEROSPACE SCIENCE AND TECHNOLOGY, cilt.9, ss.626-634, 2005 (SCI İndekslerine Giren Dergi)
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 İndekslerine Giren Dergi)
Simulated annealing for missile optimization: Developing method and formulation techniques
Tekinalp O., Bingol M.
- JOURNAL OF GUIDANCE CONTROL AND DYNAMICS, cilt.27, ss.616-626, 2004 (SCI İndekslerine Giren Dergi)
Tilt duct vertical takeoff and landing uninhabited aerial vehicle concept design study
Armutcuoglu O., Kavsaoglu M., Tekinalp O.
- JOURNAL OF AIRCRAFT, cilt.41, ss.215-223, 2004 (SCI İndekslerine Giren Dergi)
Turkish Small Satellite Program: Goals and policies
Askar M., Tekinalp O.
- ACTA ASTRONAUTICA, cilt.46, ss.375-378, 2000 (SCI İndekslerine Giren Dergi)
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, ss.122-134, 1996 (SCI İndekslerine Giren Dergi)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- **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
INCORPORATING REAL LIFE DESIGN PROBLEMS INTO THE AEROSPACE CURRICULUM
TEKİNALP O.
- 10TH ANKARA INTERNATIONAL AEROSPACE CONFERENCE, Ankara, Türkiye, 18 - 20 Eylül 2019
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
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
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
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, İngiltere, 16 - 19 Temmuz 2019
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
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

● **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

● **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

● **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

● **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

● **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

● **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

● **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

● **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

● **Orbit Estimation Strategy for Low Earth Orbit and Geostationary Satellites**

TEKİNALP O., KÖKER A.

● AIAA/American Astronautical Society, 2018 Astrodynamics Specialst Conference, Snowbird, Utah, Amerika Birleşik Devletleri, 19 - 23 Ağustos 2018

● **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

● **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

● **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

● **Constrained Model Predictive Control for Spacecraft Rendezvous**

BÜYÜKKOÇAK A. T. , ALTINIŞIK S., TEKİNALP O.

● 9th Ankara International Aerospace Conference, 20 - 22 Eylül 2017

● **Angle Only Orbit Determination Using a Telescope System**

KÖKER A., TEKİNALP O.

9th Ankara International Aerospace Conference, 20 - 22 Eylül 2017

● **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

● **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

● **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

● **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

● **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

● **Main Rotor Downwash Effect on Separation Characteristics of External Stores**

Kapulu Ö., TEKİNALP O.

● AIAA SciTech 2017, Atmospheric Flight Mechanics Conference, 9 - 13 Ocak 2017

● **A Novel Flight Control Algorithm for Multicopters**

TEKİNALP O., Kumbasar S.

● 30th Congress of International Council of Aeronautical Sciences, 26 - 29 Eylül 2016

● **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

● **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

● **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

● **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

● **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

● **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

● **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

● **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

● **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

● **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

● **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

● **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

● **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

● **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

● **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

● **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

● **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

● **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

● **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

● **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

● **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

● **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

● **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

● **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

● **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

● **Attitude determination and rotational motion parameters identification of a LEO satellite through magnetometer and sun sensor data**

Kutlu A., Hacıyev C., TEKİNALP O.

● 3rd International Conference on Recent Advances in Space Technologies, İstanbul, Türkiye, 14 - 16 Haziran 2007, ss.458-459

● **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

● **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

● **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

● **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

● **An attitude control system 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

● **Interacting fuzzy multimodel intelligent tracking system for swift target manoeuvres**

Gokkus L., Erkmén 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

● **Tracking a swift target using the interacting fuzzy multi-model algorithm**

Gokkus L., Erkmén A., Tekinalp O.

● 1997 IEEE International Symposium on Intelligent Control, İstanbul, Türkiye, 16 - 18 Temmuz 1997, ss.331-336

● **NATURAL VIBRATION CHARACTERISTICS OF ROTATING, COMPOSITE MULTI-LAYER BEAMS AND**

BLADES

TEKİNALP O., YUCEOGLU U., YAVUZ A.

5th International Conference on Recent Advances in Structural Dynamics, Southampton, İngiltere, 18 - 21 Temmuz 1994, ss.504-514

Desteklenen Projeler

Şahin E., Koku A. B. , Turgut A. E. , Saranlı U., Kalkan S., Keysan O., Cinbiş R. G. , Akbaş E., Ankaralı M. M. , Saranlı A., et al., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, ROBOTİK TEKNOLOJİLERİ ARAŞTIRMA, GELİŞTİRME ve EĞİTİM MERKEZİ (ROMER), 2019 - 2022

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

Kurtuluş D. F. , Tekinalp O., Kayran A., Yaman Y., Gürses E., Çöker D., Yavrucuk İ., Leblebicioğlu M. K. , Konukseven E. İ. , Aksel M. H. , et al., Şirket, ODTÜ-TAİ VLA projesi 1. faz, 2017 - 2019

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

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

TEKİNALP O., YAMAN Y., 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 faaliyetinin incelenmesi, 2016 - 2016

TEKİNALP O., TÜBİTAK Projesi, Birlikte Sarkan Yük Tasiyan 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

Atıflar

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