

Prof. OZAN TEKİNALP

Personal Information

Office Phone: +90 312 210 4287

Fax Phone: +90 312 210 4250

Email: tekinalp@metu.edu.tr

Web: <https://avesis.metu.edu.tr/tekinalp>

International Researcher IDs

ScholarID: nsvi5-8AAAAJ

ORCID: 0000-0001-7507-1231

Publons / Web Of Science ResearcherID: ABB-8878-2020

ScopusID: 6602683154

Yoksis Researcher ID: 51869

Education Information

Doctorate, University of Michigan, College of Engineering, Mechanical Engineering And Applied Mechanics Department, United States Of America 1983 - 1988

Postgraduate, University of Michigan, College of Engineering, Mechanical Engineering and Applied Mechanics
Department United States Of America 1982 - 1983

Undergraduate, İstanbul Technical University, Makine Fakültesi, Makine Mühendisliği Bölümü, Turkey 1976 - 1981

Foreign Languages

English, C1 Advanced

Dissertations

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

Research Areas

Aeronautical and Space Engineering, Aeronautical Engineering , Space Engineering, Flight Sciences, Aircraft System Technologies, Task, Flight Dynamics and Stability, Flight Control Systems, Spacecraft Dynamics Modeling, Orientation and Orbit Control, Engineering and Technology

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, 1988 -
Continues

Academic and Administrative Experience

Middle East Technical University, Faculty of Engineering, Department of Aerospace Engineering, 2009 - 2018

Advising Theses

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

Söken H. E., Tekinalp O., Realtime Magnetometer Calibration for Spinning Aerospace Vehicles, Postgraduate, M.EFE(Student), 2022

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

TEKİNALP O., Evaluation of guidance methods for a swarm of munitions, Postgraduate, A.ALPO(Student), 2021

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

Tekinalp O., Attitude and orbit control of a solar sail spacecraft for responsive operational concept, Doctorate, H.CAN(Student), 2021

TEKİNALP O., Formation flight design using natural dynamics for halo orbiting and earth orbiting spacecraft, Doctorate, A.Kutlu(Student), 2020

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

Tekinalp O., Design, development and control of a hybrid uav, Postgraduate, A.MURATOĞLU(Student), 2019

TEKİNALP O., Smooth slew maneuvers of flexible spacecraft, Postgraduate, S.ALTIŞIK(Student), 2019

Tekinalp O., Control system design and implementation of a tilt rotor UAV, Postgraduate, L.CEVHER(Student), 2019

Tekinalp O., Modeling and control of quadrotor formations carrying aslung load, Doctorate, S.OOLUMIDE(Student), 2019

TEKİNALP O., Design, modeling and control of a hybrid UAV, Postgraduate, A.Muratoğlu(Student), 2019

Tekinalp O., Orbit determination strategy and verification for geosynchronous satellites, Postgraduate, A.KÖKER(Student), 2019

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

TEKİNALP O., Autonomous spacecraft rendezvous and docking on safe trajectories, Postgraduate, A.TEVFİK(Student), 2018

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

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

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

TEKİNALP O., Nonlinear guidance and control of leader-follower UAV formations, Postgraduate, S.KUMBASAR(Student), 2015

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

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

TEKİNALP O., System identification using flight test data, Postgraduate, O.ŞİMŞEK(Student), 2014

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

TEKİNALP O., High by-pass turbofan engines aerothermodynamic design and optimization, Postgraduate, S.Arabyi(Student), 2014

TEKİNALP O., Nonlinear control of unmanned aircraft formations, Postgraduate, S.ARIYIBI(Student), 2014

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

TEKİNALP O., Evaluation of rotorcraft system identification approaches, Postgraduate, S.KAYMAK(Student), 2013

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

E.ÖZTEN(Student), 2013

TEKİNALP O., Conceptual design optimization of a nano-satellite launcher, Postgraduate, Y.EMRE(Student), 2012

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

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

TEKİNALP O., External geometry and flight performance optimization of turbojet propelled air to ground missiles, Postgraduate, E.EDEDE(Student), 2011

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

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

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

TEKİNALP O., Multiobjective design optimization of rockets and missiles, Postgraduate, M.YAVUZ(Student), 2009

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

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

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

TEKİNALP O., Flight simulation and control of a helicopter, Postgraduate, G.HİLAL(Student), 2008

TEKİNALP O., Control allocation against actuator failures in overactuated small satellites, Postgraduate, Ö.KAHRAMAN(Student), 2007

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

TEKİNALP O., Multi objective conceptual design optimization of an agricultural aerial robot (AAR), Postgraduate, S.Özdemir(Student), 2005

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

TEKİNALP O., Multi objective conceptual design optimization of an agricultural aerial robot, Postgraduate, S.ÖZDEMİR(Student), 2005

TEKİNALP O., Simulated annealing for the generation of pareto fronts with aerospace applications /, Postgraduate, G.KARSLI(Student), 2004

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

TEKİNALP O., Development of a flexible satellite simulator and associated control algorithms., Postgraduate, K.TAYLAN(Student), 2002

TEKİNALP O., Missile trajectory optimization using genetic algorithm, Postgraduate, M.SOYLUOĞLU(Student), 2001

TEKİNALP O., Optimization of north south station keeping manoeuvres for geostationary satellites, Postgraduate, Z.YILDIZ(Student), 2001

TEKİNALP O., Guidance and control of a spinning missile, Postgraduate, B.SEMERCİ(Student), 2001

TEKİNALP O., Neural network initialization of strapdown inertial navigation systems, Postgraduate, M.Özemre(Student), 2000

TEKİNALP O., Neural network initialization of strapdown inertial navigation systems, Postgraduate, M.ÖZEMRE(Student), 2000

TEKİNALP O., Multi-disciplinary design optimization of missiles, Postgraduate, M.Bingöl(Student), 2000

TEKİNALP O., Modeling and control of a tilt-duct VTOL UAV, Postgraduate, A.OKAN(Student), 2000

TEKİNALP O., Multi-disciplinary design optimization of missiles, Postgraduate, M.BİNGÖL(Student), 2000

TEKİNALP O., Missile design optimization using simulated annealing technique, Postgraduate, S.UTALAY(Student), 1999

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

TEKİNALP O., 3- Axis attitude control of a geostationary satellite, Postgraduate, H.ÖZGÜR(Student), 1999

TEKİNALP O., Missile design optimization using simulated annealing technique, Postgraduate, S.Utalay(Student), 1999
TEKİNALP O., TULUNAY Y., Modeling and control of beam type structures with surface bonded piezoelectric sensors and actuators, Postgraduate, B.Yağcı(Student), 1998
TEKİNALP O., Modelling and control of beam type structures with surface bonded piezoelectric sensors and actuators, Postgraduate, B.YAĞCI(Student), 1998
TULUNAY Y., TEKİNALP O., Investigation of minimum fuel maneuvers of Türksat 1B satellite with possible use of its simulator, Postgraduate, T.Erdal(Student), 1998
TEKİNALP O., Robust control of a highly maneuverable aircraft, Postgraduate, M.ERGÜN(Student), 1998
TEKİNALP O., Orbit dynamics, attitude dynamics and control: Investigation into possible applications to TURKSAT, Postgraduate, H.ÖZGE(Student), 1997
TEKİNALP O., TULUNAY Y., Orbit dynamics attitude dynamics and control:Investigation into possible applications to Türksat, Postgraduate, H.Özge(Student), 1997
TEKİNALP O., Optimal trajectories for air-to-surface missiles using direct collocation and nonlinear programming, Postgraduate, E.MURAT(Student), 1996
TEKİNALP O., Optimal trajectories for air-to-surfaces missiles using direct collocation and nonlinear programming, Postgraduate, E.Murat(Student), 1996
TEKİNALP O., Free vibration analysis of multi-layer adhesively bonded rotating beams, Postgraduate, A.KADİR(Student), 1992
TEKİNALP O., Free vibration analysis of adhesively bonded multi-layer beams and lap-joints, Postgraduate, N.ÇAĞLAYAN(Student), 1992

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Orbit Control of an Earth Orbiting Solar Sail Satellite**
Polat H. C., Tekinalp O.
INTERNATIONAL JOURNAL OF AERONAUTICAL AND SPACE SCIENCES, vol.24, no.1, pp.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, vol.67, no.11, pp.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, vol.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, vol.24, no.7, pp.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, vol.41, no.3, pp.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, vol.35, no.2, pp.78-93, 2015 (SCI-Expanded)
- VII. **A new multiobjective simulated annealing algorithm**
Tekinalp O., Karsli G.
JOURNAL OF GLOBAL OPTIMIZATION, vol.39, no.1, pp.49-77, 2007 (SCI-Expanded)
- VIII. **A new steering law for redundant control moment gyroscope clusters**
Tekinalp O., Yavuzoglu E.

- AEROSPACE SCIENCE AND TECHNOLOGY, vol.9, no.7, pp.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, vol.83, pp.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, vol.27, no.4, pp.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, vol.41, no.2, pp.215-223, 2004 (SCI-Expanded)
- XII. Turkish Small Satellite Program: Goals and policies
Askar M., Tekinalp O.
ACTA ASTRONAUTICA, vol.46, pp.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, vol.118, no.1, pp.122-134, 1996 (SCI-Expanded)

Articles Published in Other Journals

- I. Sequential Orbit Determination Verification for Geostationary Satellites
KÖKER A., TEKİNALP O., YILMAZ Ü. C., ŞAKACI C.
Advances in Astronautical Sciences, vol.175, pp.3227-3244, 2021 (Peer-Reviewed Journal)
- II. Mission Analysis of a New Solar Sail Satellite Concept at Low Earth Orbit
POLAT H. C., TEKİNALP O.
Advances in Astronautical Sciences, vol.175, pp.2387-2406, 2021 (Peer-Reviewed Journal)
- 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, vol.112, no.2, pp.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, vol.111, no.2, pp.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, vol.955, pp.129-134, 1988 (Scopus)
- VI. Dynamic Modeling of Transverse Drill Bit Vibrations
Ulsoy A. G., Tekinalp O., Lenz E.
CIRP Annals - Manufacturing Technology, vol.33, no.1, pp.253-258, 1984 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- 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, Switzerland, 6 - 08 September 2022
- II. Trajectory Tracking Controller Design and Simulation of a Tethered Aircraft,
Önen A. S., TEKİNALP O.

- Airborne Wind Energy Conference (AWEC 2021), Milan, Italy, 22 June 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, United States Of America, 9 - 11 August 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, United States Of America, 22 - 25 June 2021
- V. **Airborne Wind Energy: Trajectory Tracking Controller Design of a Tethered Aircraft**
Önen A. S., Tekinalp O.
Wind Energy Science Conference, Hannover, Germany, 25 - 28 May 2021, vol.10, pp.119-120
- VI. **Maneuver Planning Strategy for Rapid Response Solar Sail Satellite Concept**
Polat H. C., Tekinalp O.
SciTech 2021, Science and Technology Forum and Exposition 2021, Virginia, United States Of America, 11 - 21 January 2021, vol.1, no.2, pp.1-17
- VII. **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 August 2020, vol.175, pp.3227-3244
- 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 August 2020, vol.175, pp.2387-2406
- IX. **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 January 2021, pp.1-17
- X. **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 Astronautical Congress, Dubai, Sanal Yapıldı, United Arab Emirates, 12 - 14 October 2020
- XI. **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, Serbia, 30 September 2020
- XII. **KÜÇÜK UYDULARDA YÖNELİM BELİRLEME FİLTRESİNİN KAMERA TABANLI ÖLÇÜMLER İLE DESTEKLЕНMESİ**
Söken H. E., Güzel M. B., Tekinalp O.
8. ULUSAL HAVACILIK VE UZAY KONFERANSI, Ankara, Turkey, 9 - 11 September 2020, pp.1-13
- XIII. **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, Turkey, 9 - 11 September 2020, pp.1-8
- XIV. **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, Japan, 15 - 21 June 2019
- XV. **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 October 2020, vol.2020-October
- XVI. **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, Turkey, 18 - 20 September 2019

- XVII. **A MISSION ANALYSIS SOFTWARE FOR SMALL SATELLITES**
KOPRÜCÜ S. U., ÖZCELİK S. A., ALTUNAY Ş., YAĞLIOĞLU B., TEKİNALP O.
10th ANKARA INTERNATIONAL AEROSPACE CONFERENCE, Ankara, Turkey, 18 - 20 September 2019
- XVIII. **SCATTER AND SENSITIVITY ANALYSIS OF A PROJECTILE MODELED UNDER MAGNUS EFFECT**
MUHİDDİNOĞLU A., YAYLA K., TEKİNALP O.
10th ANKARA INTERNATIONAL AEROSPACE CONFERENCE, Ankara, Turkey, 18 - 20 September 2019
- XIX. **INCORPORATING REAL LIFE DESIGN PROBLEMS INTO THE AEROSPACE CURRICULUM**
TEKİNALP O.
10TH ANKARA INTERNATIONAL AEROSPACE CONFERENCE, Ankara, Turkey, 18 - 20 September 2019
- XX. **Long Term and Safe Relative Orbit Design for Heterogeneously Distributed Spacecraft Clusters**
YAĞLIOĞLU B., TEKİNALP O.
International Workshop on Satellite Constellations and Formation Flying, Glasgow, United Kingdom, 16 - 19 July 2019
- XXI. **Slew Maneuver Control of Flexible Spacecraft**
ALTINIŞIK S., TEKİNALP O.
8TH EUROPEAN CONFERENCE FOR AERONAUTICS AND SPACE SCIENCES (EUCASS), Madrid, Spain, 1 - 04 July 2019
- XXII. **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, Spain, 1 - 04 July 2019
- XXIII. **Control of a Quadrotor Formation Carrying a Slung Load Using Flexible Bars**
TEKİNALP O., ARIYIBI S.
AIAA Aviation 2019 Forum, Dallas, Texas, United States Of America, 17 - 21 June 2019
- XXIV. **Oscillating Control Moment Gyroscope Experimental Results**
AKBULUT B., ARBERKLİ F., AZGIN K., TEKİNALP O.
AIAA Scitech 2019 Forum, San Diego, California, United States Of America, 7 - 11 January 2019
- XXV. **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, United States Of America, 7 - 11 January 2019
- XXVI. **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, Turkey, 11 - 14 June 2019, pp.137-144
- XXVII. **A Multi-National Multi-Institutional Education 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, Turkey, 11 - 14 June 2019, pp.553-557
- 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, United States Of America, 19 - 23 August 2018, vol.167, pp.1411-1422
- XXIX. **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, Turkey, 11 - 14 June 2019, pp.285-291
- XXX. **SAFE SPACECRAFT RENDEZVOUS WITH CONSTRAINED MODEL PREDICTIVE CONTROL**
BÜYÜKKOÇAK A. T., TEKİNALP O.

- AAS/AIAA Astrodynamics Specialist Conference, Utah, United States Of America, 19 - 23 August 2018, vol.167, pp.883-895
- XXXI. **Safe Spacecraft Rendezvous with Constraint Model Predictive Control**
TEKİNALP O., BÜYÜKKOÇAK A. T.
AIAA/ American Astronautical Society Astrodynamics Specialist Conference, Snowbird, Utah, United States Of America, 19 - 23 August 2018
- XXXII. **Orbit Estimation Strategy for Low Earth Orbit and Geostationary Satellites**
TEKİNALP O., KÖKER A.
AIAA/American Astronautical Society, 2018 Astrodynamics Specialist Conference, Snowbird, Utah, United States Of America, 19 - 23 August 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, United States Of America, 8 - 12 January 2018
- XXXIV. **Modeling and Control of Quadrotor Formations Carrying a Slung Load**
ARIYIBI S., TEKİNALP O.
2018 AIAA Information Systems-AIAA Infotech @ Aerospace, Kissimmee, Florida, United States Of America, 8 - 12 January 2018
- XXXV. **EFFECTS OF ROTOR GEOMETRY ON THE PERFORMANCE OF VIBRATING MASS CONTROL MOMENT GYROSCOPES**
Arberkli F., Akbulut B., AZGIN K., TEKİNALP O.
AAS/AIAA Astrodynamics Specialist Conference, Washington, United States Of America, 20 - 24 August 2017, vol.162, pp.247-258
- XXXVI. **A multi-national multi-institutional education framework: APSCO SSS-2B CubeSat Project**
Yaglioglu B., AtaÂY Â., Kahraman D., KÂ¶se S., Koru A., TEKİNALP O., SÃ¼er M., Phrompichai S.
69th International Astronautical Congress: #InvolvingEveryone, IAC 2018, Bremen, Germany, 1 - 05 October 2018, vol.2018-October
- XXXVII. **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, Netherlands, 18 - 21 September 2018, vol.2, pp.952-964
- XXXVIII. **Constrained Model Predictive Control for Spacecraft Rendezvous**
BÜYÜKKOÇAK A. T., ALTINIŞIK S., TEKİNALP O.
9th Ankara International Aerospace Conference, 20 - 22 September 2017
- XXXIX. **Angle Only Orbit Determination Using a Telescope System**
KÖKER A., TEKİNALP O.
9th Ankara International Aerospace Conference, 20 - 22 September 2017
- XL. **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, United States Of America, 12 - 14 September 2017
- XLI. **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, United States Of America, 20 - 24 August 2017
- XLII. **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 June 2017
- XLIII. **ORBIT TRANSFER OF AN EARTH ORBITING SOLAR SAIL CUBESAT**
Atas O., TEKİNALP O.
27th AAS/AIAA Space Flight Mechanics Meeting, San-Antonio, Northern Mariana Islands, 5 - 09 February 2017, vol.160, pp.2201-2212
- XLIV. **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, Northern Mariana Islands, 5 - 09 February 2017,
 vol.160, pp.2961-2974
- XLV. Main Rotor Downwash Effect on Separation Characteristics of External Stores**
 Kapulu Ö., TEKİNALP O.
 AIAA SciTech 2017, Atmospheric Flight Mechanics Conference, 9 - 13 January 2017
- XLVI. Main rotor downwash effect on separation characteristics of external stores**
 Kapulu O., TEKİNALP O.
 AIAA Atmospheric Flight Mechanics Conference, 2017, Colorado, United States Of America, 5 - 09 June 2017
- XLVII. A Novel Flight Control Algorithm for Multicopters**
 TEKİNALP O., Kumbasar S.
 30th Congress of International Council of Aeronautical Sciences, 26 - 29 September 2016
- XLVIII. Tracking Control of Spacecraft Attitude on Time Dependent Trajectories**
 TEKİNALP O., TEKİNALP A.
 Space 2016, AIAA/AAS Astrodynamics Specialist Conference, Long Beach, CA, United States Of America, 13 - 16
 September 2016
- XLIX. Vibrating Mass Control Moment Gyroscope Dynamic Model Validation**
 AKBULUT B., ARBERKLİ F., AZGIN K., TEKİNALP O.
 AIAA/AAS Astrodynamics Specialist Conference, Long Beach, California, United States Of America, 13 - 16
 September 2016
- L. Nonlinear Aircraft Flight Control Using Forward Propagating Riccati Equation**
 PRACH A., TEKİNALP O., BERNSTEIN D.
 AIAA SCITECH 2016, SAN DIEGO, CA, United States Of America, 4 - 08 January 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, United States Of America, 4 - 08 January 2016
- LII. 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, United States Of America, 4 - 08 January 2016
- LIII. 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, United States Of America, 4 - 08 January 2016
- LIV. 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, United States Of America, 4 - 08 January
 2016
- LV. Design and control of a micro UAV**
 Kaya D., Büyükköçak A. T., KUTAY A. T., TEKİNALP O.
 AIAA Atmospheric Flight Mechanics Conference, 2016, California, United States Of America, 4 - 08 January 2016
- LVI. A novel flight contorl algorithm for multicopters**
 TEKİNALP O., Kumbasar S.
 30th Congress of the International Council of the Aeronautical Sciences, ICAS 2016, Daejeon, South Korea, 25 - 30
 September 2016
- LVII. NONLINEAR TRACKING ATTITUDE CONTROL OF SPACECRAFT ON TIME DEPENDENT TRAJECTORIES**
 TEKİNALP O., Gomroki M. M., Atas O.
 AAS/AIAA Astrodynamics Specialist Conference, Colorado, United States Of America, 11 - 13 August 2015, vol.156,
 pp.1585-1597
- LVIII. SOLAR SAIL SPACECRAFT BOOM VIBRATION DURING DEPLOYMENT AND DAMPING MECHANISMS**
 Atas O., Demiral E., TEKİNALP O.
 AAS/AIAA Astrodynamics Specialist Conference, Colorado, United States Of America, 11 - 13 August 2015, vol.156,
 pp.2189-2202

- LIX. **Nonlinear Tracking Attitude Control on Time Dependent Trajectories**
 TEKİNALP O., GOMROKI M. M., ATAŞ Ö.
 AAS/AIAA Astrodynamics Specialist Conference, Vail, Colorado, United States Of America, 9 - 13 August 2015
- LX. **Solar Sail Spacecraft Boom Vibration During Deployment and Damping Analysis**
 TEKİNALP O., DEMİREL E., ATAŞ Ö.
 AAS/AIAA ASTRODYNAMICS SPECIALIST CONFERENCE, Vail, Colorado, United States Of America, 9 - 13 August 2015
- LXI. **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, Spain, 15 - 19 June 2015, vol.44, pp.109-120
- LXII. **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, Turkey, 16 - 19 June 2015, pp.183-186
- LXIII. **Vibrationally Excited Satellite Attitude Actuator A Feasibility Study**
 TEKİNALP O., AKBULUT B., AZGIN K.
 RAST 2015, Recent Advances on Space Technologies, İstanbul, Turkey, 16 - 19 June 2015
- LXIV. **Fuzzy Logic Guidance of Formation Flight**
 Kumbasar S., TEKİNALP O.
 International Conference on Unmanned Aircraft Systems (ICUAS), Colorado, United States Of America, 9 - 12 June 2015, pp.167-175
- LXV. **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, United States Of America, 9 - 12 June 2015, pp.329-337
- LXVI. **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, United States Of America, 11 - 15 January 2015, vol.155, pp.3509-3528
- LXVII. **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, United States Of America, 11 - 15 January 2015, vol.155, pp.643-657
- LXVIII. **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, United States Of America, 11 - 15 January 2015, vol.155, pp.3529-3546
- LXIX. **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, United States Of America, 12 - 15 January 2015
- LXX. **State Dependent Riccati Equation Control of Spinning Three Craft Coulomb Formations**
 TEKİNALP O., MOHAMMAD MEHDI G.
 AIAA/AAS space Flight Mechanics Meeting, Williamsburg, Virginia, United States Of America, 12 - 15 January 2015
- LXXI. **Architectures for Vibrating Mass Attitude Control Actuators**
 TEKİNALP O., BURAK A.
 AIAA/AAS Space Flight Mechanics Meeting, Williamsburg, Virginia, United States Of America, 12 - 15 January 2015
- LXXII. **System Identification and Handling Quality Analysis of a UAV from Flight Test Data**
 TEKİNALP O., ŞİMŞEK O.

- AIAA Atmospheric Flight Mechanics Conference, Kissimmee, Florida, United States Of America, 5 - 09 January 2015
- LXXXIII. **Nonlinear Control to Maneuver Two Craft Coulomb Formation at Libration Points**
TEKİNALP O., MOHAMMAD MEHDI G.
AIAA Scitech 2015 Konferansı, Orlando, Florida, United States Of America, 5 - 09 January 2015
- LXXXIV. **Nonlinear Guidance of Aircraft Formations**
TEKİNALP O., Segun A.
AIAA Scitech 2015 Konferansı, Orlando, Florida, United States Of America, 5 - 09 January 2015
- LXXXV. **SDRE Based Guidance and Flight Control of Aircraft Formations**
TEKİNALP O., SARPER K.
AIAA Scitech 2015 Konferansı, Orlando, Florida, United States Of America, 5 - 09 January 2015
- LXXXVI. **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, United States Of America, 5 - 09 January 2015
- LXXXVII. **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, United States Of America, 5 - 09 January 2015
- LXXXVIII. **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, Italy, 24 - 26 March 2014, vol.153, pp.673-684
- LXXXIX. **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, Chile, 15 - 17 December 2014, pp.854-859
- LXXX. **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, United States Of America, 4 - 06 December 2014, pp.5633-5638
- LXXXI. **Response Surface Based Performance Analysis of an Air-Defense Missile System**
Gunaydin K., Cimen T., TEKİNALP O.
IEEE Aerospace Conference, Montana, United States Of America, 1 - 08 March 2014
- LXXXII. **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, United States Of America, 13 - 17 January 2014
- LXXXIII. **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, Israel, 19 - 20 February 2014, vol.1, pp.609-634
- LXXXIV. **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, United States Of America, 26 - 30 January 2014, vol.152, pp.235-254
- LXXXV. **Maneuvering of two-craft coulomb formation using ASRE method**
Gomroki M. M., TEKİNALP O.
AIAA/AAS Astrodynamics Specialist Conference 2014, San Diego, CA, United States Of America, 4 - 07 August 2014
- LXXXVI. **Development of a state dependent riccati equation based tracking flight controller for an unmanned aircraft**

- PRACH A., TEKİNALP O.
AIAA Guidance, Navigation, and Control (GNC) Conference, Boston, MA, United States Of America, 19 - 22 August 2013
- LXXXVII. **DYNAMIC STABILITY FLIGHT TESTS OF REMOTE SENSING MEASUREMENT CAPABLE AMPHIBIOUS UNMANNED AERIAL VEHICLE (A-UAV)**
Yayla M., Sarsilmaz S. B., Mutlu T., Coşgun V., Kurtuluş B., Kurtuluş D. F., Tekinalp O.
7. ANKARA INTERNATIONAL AEROSPACE CONFERENCE, Ankara, Turkey, 11 - 13 September 2013
- LXXXVIII. **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 August 2013
- LXXXIX. **Spacecraft Attitude and Rate Estimation Using the SDRE Method**
CHOUKROUN D., TEKİNALP O.
5the European Conference on Aeronautical and Space Sciences, 1 - 05 July 2013
- XC. **Attitude Control of Satellites with De-Orbiting Solar Sails**
TEKİNALP O., Atas O.
6th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Turkey, 12 - 14 June 2013, pp.347-351
- XCI. **Momentum envelopes and steering of control moment gyroscope clusters**
TEKİNALP O.
AIAA/AAS Astrodynamics Specialist Conference 2012, Minneapolis, MN, United States Of America, 13 - 16 August 2012
- XCII. **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, United States Of America, 17 - 19 September 2012
- XCIII. **Fault Tolerant Control of an Over Actuated UAV**
TEKİNALP O., YAVRUCUK İ.
AIAA Guidance, Navigation, and Control Conference, 8 - 11 July 2011
- XCIV. **Gain scheduled inverse optimal control for fine pointing of a spacecraft camera**
TEKİNALP O., KAYASTHA S., ÖZGÖREN K., NADJIM H.
Proceedings of 5th International Conference on Recent Advances in Space Technologies - RAST2011, İstanbul, Turkey, 9 - 11 June 2011
- XCV. **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, United States Of America, 5 - 12 March 2011
- XCVI. **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, Canada, 12 - 15 September 2010, pp.189-196
- XCVII. **Quaternion Based State Dependent Riccati 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 August 2010
- XCVIII. **POINTING PERFORMANCE CONTROL OF A SPACECRAFT CAMERA USING PIEZOELECTRIC ACTUATORS**
Kayastha S., TEKİNALP O., Ozgoren K.
20th AAS/AIAA Spaceflight Mechanics Meeting, California, United States Of America, 14 - 18 February 2010, vol.136, pp.661-663
- XCIX. **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, United States Of America, 14 - 18 February 2010,
vol.136, pp.2477-2478
- C. **Helicopter Flight Simulation and Automatic Flight Control System Design**
TEKİNALP O., YAVRUCUK İ.
AIAC 2009, 17 - 19 August 2009
- CI. **Flight Control System Design and Integration for a Small UAV Test Bed**
TEKİNALP O., YAVRUCUK İ.
AIAC 2009, 17 - 19 August 2009
- CII. **Simulation and Flight Control of a Tilt Duct UAV**
TEKİNALP O., ÜNLÜ T., YAVRUCUK İ.
Modeling and Simulation Technologies Conference, Chicago, United States Of America, 10 - 12 August 2009
- CIII. **Gimbal Angle Restricted Control Moment Gyroscope Clusters**
TEKİNALP O., Elmas T., YAVRUCUK İ.
4th International Conference on Recent Advances in Space Technologies, İstanbul, Turkey, 11 - 13 June 2009,
pp.585-590
- CIV. **SATELLITE ATTITUDE CONTROL USING DISSIMILAR REDUNDANT ACTUATORS**
Kahraman O., TEKİNALP O.
AAS/AIAA 19th Space Flight Mechanics Meeting, Savannakhet, Laos, 8 - 12 February 2009, vol.134, pp.2303-2315
- CV. **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 February 2009, vol.134, pp.1029-1030
- CVI. **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 February 2009, vol.134, pp.1551-1566
- CVII. **Attitude determination and rotational motion parameters identification of a LEO satellite through magnetometer and sun sensor data**
Kutlu A., Haciye C., TEKİNALP O.
3rd International Conference on Recent Advances in Space Technologies, İstanbul, Turkey, 14 - 16 June 2007,
pp.458-459
- CVIII. **Trajectory optimization of advanced launch system**
Karsli G., Tekinalp O.
2nd International Conference on Recent Advances in Space Technologies, İstanbul, Turkey, 9 - 11 June 2005,
pp.374-378
- CIX. **Spacecraft energy storage and attitude control**
Altay A., Tekinalp O.
2nd International Conference on Recent Advances in Space Technologies, İstanbul, Turkey, 9 - 11 June 2005,
pp.201-206
- CX. **Modeling and robust control of a spinning missile**
Semerci B., Merttopcuoglu O., TEKİNALP O.
22nd International Conference on Modelling Identification and Control, Innsbruck, Austria, 10 - 13 February 2003,
pp.584-590
- CXI. **Flight control of a tilt-duct VTOL UAV**
Okan A., TEKİNALP O., Kavsaoglu M.
1st UAV Conference 2002, Portsmouth, VA, United States Of America, 20 - 23 May 2002
- CXII. **Flight Control of a Tilt-Duct UAV**
TEKİNALP O., KAVSAOĞLU M. Ş., OKAN A.
1st UAV Conference, Portsmouth, Virginia, United States Of America, 20 - 23 May 2002
- CXIII. **Modeling of laminated plates with surface bonded piezoelectric sensors and actuators**
Erturk C., TEKİNALP O.
43rd Structures, Structural Dynamics and Materials Conference, Denver, CO, United States Of America, 22 - 25 April

- 2002, vol.3, pp.1914-1924
- CXIV. Artificial neural networks for transfer alignment and calibration of inertial navigation systems**
 TEKİNALP O., ÖZEMRE M.
 AIAA Guidance, Navigation, and Control Conference and Exhibit, Montreal, Canada, 6 - 09 August 2001
- CXV. 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, Macedonia, 21 - 23 May 2001, pp.3-14
- CXVI. Simulated annealing for missile trajectory planning and multidisciplinary missile design optimization**
 TEKİNALP O., Utalay S.
 38th Aerospace Sciences Meeting and Exhibit 2000, Reno, NV, United States Of America, 10 - 13 January 2000
- CXVII. 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, Taiwan, 22 - 24 March 1999, vol.3, pp.33-40
- CXVIII. Flight mechanics analysis of a tilt-rotor UAV**
 Okan A., TEKİNALP O., Kavsaoglu M., Armutcuoglu >, Tulunay E.
 24th Atmospheric Flight Mechanics Conference, 1999, Oregon, United States Of America, 9 - 11 August 1999, pp.681-691
- CXIX. An attitude control sysystem design based on the TURKSAT-1B geostationary satellite**
 Tekinalp O., Uslu O., Tulunay Y.
 COSPAR Colloquium on Microsatellites as Research Tools, Tainan, Taiwan, 14 - 17 December 1997, vol.10, pp.143-151
- CXX. 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, France, 7 - 11 September 1997, pp.766-771
- CXXI. 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, Turkey, 16 - 18 July 1997, pp.331-336
- CXXII. 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, Costa Rica, 12 - 17 November 1995, vol.46, pp.83-94
- CXXIII. 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 November 1994, vol.18, pp.143-150
- CXXIV. 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, United Kingdom, 18 - 21 July 1994, pp.504-514
- 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 November - 03 December 1993, pp.1-9
- CXXVI. 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 November - 03 December 1993, vol.37, pp.297-307
- CXXVII. Vibrations of two-layer, orthotropic, 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 November 1990,
 vol.19, pp.67-72
- CXXVIII. **Modeling and finite element analysis of drill bit vibrations**
 Tekinalp O., Ulsoy A.
 Advances in Design Automation - 1989, Montreal, Canada, 17 - 21 September 1989, vol.18-2, pp.61-68
- CXXIX. **Effects of geometric and process parameters on drill transverse vibrations**
 Tekinalp O., Ulsoy A.
 Sensors and Controls for Manufacturing - 1988, Chicago, MI, USA, 27 November - 02 December 1988, vol.33,
 pp.33-40
- CXXX. **VIBRATION MODES AND FREQUENCIES OF TWIST DRILLS USING LASER HOLOGRAPHIC
 INTERFEROMETRY.**
 MacBain J., Harding K., Tekinalp O.
 Miami Beach, FL, USA, 17 - 22 November 1985, vol.18, pp.1-10

Supported Projects

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., Company, ODTÜ-TAİ VLA projesi 1. faz, 2017 - 2022

Tekinalp O., Azgin K., TUBITAK Project, Proof of Concept of a Vibration Based Satellite Attitude Control Actuator, 2015 -
 2020

Tekinalp O., Kurtuluş D. F., Yaman Y., Şahin M., Sezer Uzol N., Ciğeroğlu E., Leblebicioğlu M. K., Ankaralı M. M., Project
 Supported by Other Private Institutions, Küçük Otonom İnsansız Hava Aracı Geliştirme Projesi (KO-İHA), 2019 - 2019

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

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

YAMAN Y., TEKİNALP O., Project Supported by Other Private Institutions, ODTÜ Havacılık ve Uzay Mühendisliği
 Bölümünden Eğitim Hizmeti Alınması, 2016 - 2016

TEKİNALP O., Project Supported by Other Private Institutions, Airbus A350 XWB uçağı A350 1000 serisi kanatlıkların
 ARGE falliyetinin incelenmesi, 2016 - 2016

TEKİNALP O., TUBITAK Project, Birlikte Sarkan Yük Tasıyan Kol Uçuşundaki Quadrotorların Modellenmesi Ve Kontrolü,
 2014 - 2016

Tasks In Event Organizations

Tekinalp O., Kutay A. T., Perçin M., VTOL Aircraft Competition, Dikine Kalkan İnsansız Hava Araçları Yarışması, Social
 Activities, Ankara, Turkey, Ekim 2019

Tekinalp O., Perçin M., Kutay A. T., METU VTOL Aircraft Competition 2, Social Activities, Ankara, Turkey, Ekim 2018

Metrics

Publication: 150
 Citation (WoS): 181
 Citation (Scopus): 563
 H-Index (WoS): 9
 H-Index (Scopus): 14

Awards

Kayran A., Yavrucuk İ., Gürses E., Konukseven E. İ., Tekinalp O., Çoker 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, September 2019

Non Academic Experience

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