Prof. OZAN TEKİNALP

Personal Information

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Education Information

Doctorate, University of Michigan, College of Engineerin, 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, Istanbul 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

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.ALP(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.ALTINIŞIK(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.OLUMIDE(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.Arayibi(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.DEDE(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 manoeuvers 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 initalization 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-discplinary 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 techniue, 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-tosurfaces 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 Astronatucial 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 DESTEKLENMESİ**
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., ÖZÇELİK 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 Heterogenously 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 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, 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/ Amerıcan Astronautıcal Socıety Astrodynamics Specialst 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/Amerıcan Astronautıcal Society, 2018 Astrodynamics Specialst 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 GEOMERY ON THE PERFORMANCE OF VIBRATING MASS CONTROL MOMENT GYRPOSCOPES**
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., AtaÅŸ Ã., Kahraman D., KÃ¶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**

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Non Academic Experience

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TUBITAK METU-BILTEN, Satellite Technologies Group
Roketsan Missile Industries
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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.
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