

## Prof. Dr. MUSTAFA KEMAL ÖZGÖREN

### Kişisel Bilgiler

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### Uluslararası Araştırmacı ID'leri

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Yoksis Araştırmacı ID: 7866

### Yönetilen Tezler

- ÖZGÖREN M. K., Modelling of an articulated flying body and control system design, Yüksek Lisans, B.TUTKU(Öğrenci), 2022
- ÖZGÖREN M. K., CONTROL OF A PLANAR CABLE-ACTUATED PARALLEL MANIPULATOR WITH REALISTIC CABLES, Yüksek Lisans, O.DÜZGÖREN(Öğrenci), 2018
- LEBLEBİCİOĞLU M. K., ÖZGÖREN M. K., Some optimal control problems in electric vehicles, Doktora, K.AHISKA(Öğrenci), 2016
- ÖZGÖREN M. K., Design and analysis of a 3-dof translational shock absorbing parallel manipulator, Yüksek Lisans, G.YILDIZ(Öğrenci), 2016
- ÖZGÖREN M. K., 3 öteleme serbestlik derecesine sahip bir şok sönümleyici platform tasarımı ve analizi, Yüksek Lisans, G.Yıldız(Öğrenci), 2016
- ÖZGÖREN M. K., GÜRSES S., The somatosensory and vestibular interaction in human postural control, Doktora, M.EMRE(Öğrenci), 2015
- ÖZGÖREN M. K., Biased proportional navigation guidance for impact angle control with extension to three-dimensional engagements, Doktora, K.SAVAŞ(Öğrenci), 2015
- ÖZGÖREN M. K., Investigation of control of human balance-recovery reactions, Doktora, N.BİLGİN(Öğrenci), 2015
- ÖZGÖREN M. K., Optimal redundancy resolution for kinematically redundant parallel manipulators, Yüksek Lisans, S.TANSEL(Öğrenci), 2014
- ÖZGÖREN M. K., Multistage launch vehicle design with thrust profile and trajectory optimization, Doktora, E.CİVEK(Öğrenci), 2014
- ÖZGÖREN M. K., The effects of random seeker noise and target maneuver on guidance performance, Yüksek Lisans, O.ÖZGÜR(Öğrenci), 2014
- ÖZGÖREN M. K., Inertial navigation system improvement using ground station data, Doktora, D.RAUF(Öğrenci), 2012
- ÖZGÖREN M. K., Genetik algoritma kullanılarak bir uzay aracının darbesel itkiyle yörünge transfer optimizasyonu., Yüksek Lisans, A.Yılmaz(Öğrenci), 2012
- ÖZGÖREN M. K., Research on transfer alignment for increased speed and accuracy, Doktora, U.KAYASAL(Öğrenci), 2012
- ÖZGÖREN M. K., Modeling and control of autonomous underwater vehicle manipulator systems, Doktora, O.KORKMAZ(Öğrenci), 2012
- KONUKSEVEN E. İ., ÖZGÖREN M. K., Kalman süzgeci kullanarak bir paletli araçüzzerinde çok algılayıcı kör adımı seyrüsefer., Yüksek Lisans, S.Kırımlioğlu(Öğrenci), 2012
- ÖZGÖREN M. K., Orbit transfer optimization of spacecraft with impulsive thrusts using genetic algorithm, Yüksek Lisans, A.YILMAZ(Öğrenci), 2012
- ÖZGÖREN M. K., MULTISENSOR DEAD RECKONING NAVIGATION ON A TRACKED VEHICLE USING KALMAN FILTER, Yüksek Lisans, S.KIRIMLIOĞLU(Öğrenci), 2012
- ÖZGÖREN M. K., Kinematic and force analyses of overconstrained mechanisms, Yüksek Lisans, D.ÜSTÜN(Öğrenci), 2011

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

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ÖZGÖREN M. K., High angle of attack maneuvering and stabilization control of aircraft, Doktora, Ö.ATEŞOĞLU(Öğrenci), 2007

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ÖZGÖREN M. K., Hedef izleyici füzelerinin dinamik modellemesi, güdüm ve denetimi, Doktora, B.Özkan(Öğrenci), 2005

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ÖZGÖREN M. K., Robot manipülatörlerinin konum/kuvvet kontrolü, Yüksek Lisans, M.İsmet(Öğrenci), 2003

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ÖZGÖREN M. K., Thrust vector control of a rocket vehicle associated with aerodynamic control, Yüksek Lisans, C.YALÇIN(Öğrenci), 1989

ÖZGÖREN M. K., The Position-force hybrid control of robotic manipulators, Yüksek Lisans, V.CEYHAN(Öğrenci), 1989

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ÖZGÖREN M. K., Effect of dry-friction on the position control of robot arms, Yüksek Lisans, M.FATİH(Öğrenci), 1989  
ÖZGÖREN M. K., Effects of delays on control systems, Yüksek Lisans, M.MUNGAN(Öğrenci), 1987

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Energy and Time Optimal Autopilot for Electric Vehicles Performing Ackerman Cornering**  
Ahiska K., ÖZGÖREN M. K., LEBLEBİCİOĞLU M. K.  
IEEE TRANSACTIONS ON INTELLIGENT TRANSPORTATION SYSTEMS, cilt.23, sa.10, ss.17258-17270, 2022 (SCI-Expanded)
- II. **Composite impact vector control based on Apollo descent guidance**  
ERER K. S., TEKİN R., ÖZGÖREN M. K.  
Chinese Journal of Aeronautics, cilt.35, sa.7, ss.67-74, 2022 (SCI-Expanded)
- III. **Hybrid Force and Motion Control of a Three-Dimensional Flexible Robot Considering Measurement Noises**  
KILIÇASLAN S., ÖZGÖREN M. K., İDER S. K.  
Machines, cilt.10, sa.7, 2022 (SCI-Expanded)
- IV. **Motion Control of a Spatial Elastic Manipulator in the Presence of Measurement Noises**  
KILIÇASLAN S., İDER S. K., ÖZGÖREN M. K.  
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, cilt.46, sa.12, ss.12331-12354, 2021 (SCI-Expanded)
- V. **Energy Optimality in Electric Vehicles Along Uphill-Downhill Roads**  
Ahiska K., ÖZGÖREN M. K., LEBLEBİCİOĞLU M. K.  
IEEE TRANSACTIONS ON INTELLIGENT VEHICLES, cilt.6, sa.3, ss.390-405, 2021 (SCI-Expanded)
- VI. **Design and kinematic analysis of a novel rehabilitative robotic walking simulation device**  
Kose K. C., ÖZGÖREN M. K., Tekce F., DÖNER N.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART H-JOURNAL OF ENGINEERING IN MEDICINE, cilt.235, sa.7, ss.770-779, 2021 (SCI-Expanded)
- VII. **Estimation of the Balance-Keeping Control Law Applied by a Human Being Upon a Sudden Sagittal Tilt Perturbation**  
BİLGİN N., ÖZGÖREN M. K.  
JOURNAL OF BIOMECHANICAL ENGINEERING-TRANSACTIONS OF THE ASME, cilt.141, sa.4, 2019 (SCI-Expanded)
- VIII. **Kinematic and Kinetostatic Analysis of Parallel Manipulators with Emphasis on Position, Motion, and Actuation Singularities**  
ÖZGÖREN M. K.  
ROBOTICA, cilt.37, sa.4, ss.599-625, 2019 (SCI-Expanded)
- IX. **Comparative study of attitude control methods based on Euler angles, quaternions, angle-axis pairs and orientation matrices**  
ÖZGÖREN M. K.  
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- X. **Autopilot Design for Vehicle Cornering Through Icy Roads**  
Ahiska K., ÖZGÖREN M. K., LEBLEBİCİOĞLU M. K.  
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- XI. **Performance comparison of the notable acceleration- and angle-based guidance laws for a short-range air-to-surface missile**  
Ozkan B., ÖZGÖREN M. K., Mahmutyazicioglu G.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, cilt.25, sa.5, ss.3591-3606, 2017 (SCI-Expanded)
- XII. **TRAJECTORY TRACKING CONTROL OF AN UNDERACTUATED UNDERWATER VEHICLE REDUNDANT MANIPULATOR SYSTEM**  
Korkmaz O., İDER S. K., ÖZGÖREN M. K.

ASIAN JOURNAL OF CONTROL, cilt.18, sa.5, ss.1593-1607, 2016 (SCI-Expanded)

- XIII. **Optimal Inverse Kinematic Solutions for Redundant Manipulators by Using Analytical Methods to Minimize Position and Velocity Measures**  
ÖZGÖREN M. K.  
JOURNAL OF MECHANISMS AND ROBOTICS-TRANSACTIONS OF THE ASME, cilt.5, sa.3, 2013 (SCI-Expanded)
- XIV. **The position control of a spatial binary hyper redundant manipulator through its inverse kinematics**  
Bayram A., ÖZGÖREN M. K.  
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- XV. **Sliding mode control for non-linear systems with adaptive sliding surfaces**  
Durmaz B., ÖZGÖREN M. K., SALAMCI M. U.  
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, cilt.34, sa.1, ss.56-90, 2012 (SCI-Expanded)
- XVI. **The conceptual design of a spatial binary hyper redundant manipulator and its forward kinematics**  
Bayram A., ÖZGÖREN M. K.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, cilt.226, ss.217-227, 2012 (SCI-Expanded)
- XVII. **Hybrid force and motion control of robots with flexible links**  
KILIÇASLAN S., ÖZGÖREN M. K., Ider S. K.  
MECHANISM AND MACHINE THEORY, cilt.45, sa.1, ss.91-105, 2010 (SCI-Expanded)
- XVIII. **Comparison of position controllers designed for an elastic system using its complete and deficient dynamic models**  
ÖZGÖREN M. K.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART I-JOURNAL OF SYSTEMS AND CONTROL ENGINEERING, cilt.224, ss.93-107, 2010 (SCI-Expanded)
- XIX. **Control and Robustness Analysis for a High-alpha Maneuverable Thrust-Vectoring Fighter Aircraft**  
Atesoglu O., ÖZGÖREN M. K.  
JOURNAL OF GUIDANCE CONTROL AND DYNAMICS, cilt.32, sa.5, ss.1483-1496, 2009 (SCI-Expanded)
- XX. **An algebraic method for designing controllers for multi-input multi-output linear systems via s-domain input-output decoupling**  
ÖZGÖREN M. K.  
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- XXI. **Motion control of flexible-link manipulators**  
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- XXII. **Kinematic analysis of spatial mechanical systems using exponential rotation matrices**  
Ozgoren M. K.  
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- XXIII. **Trajectory tracking control of robots with flexible links**  
Ider S., Ozgoren M., Ay V.  
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- XXIV. **Topological analysis of 6-joint serial manipulators and their inverse kinematic solutions**  
Ozgoren M.  
MECHANISM AND MACHINE THEORY, cilt.37, sa.5, ss.511-547, 2002 (SCI-Expanded)
- XXV. **A kinematic structure-based classification and compact kinematic equations for six-dof industrial robotic manipulators**  
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MECHANISM AND MACHINE THEORY, cilt.36, sa.7, ss.817-832, 2001 (SCI-Expanded)
- XXVI. **Invalid joint arrangements and actuator related singular configurations of a system of two**

### **cooperating SCARA manipulators**

Ozkan B., Ozgoren M.

MECHATRONICS, cilt.11, sa.4, ss.491-507, 2001 (SCI-Expanded)

XXVII. **Motion control of constrained systems considering their actuation-related singular configurations**

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XXVIII. **A method of inverse kinematics solution including singular and multiple configurations for a class of robotic manipulators**

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MECHANISM AND MACHINE THEORY, cilt.35, sa.9, ss.1221-1237, 2000 (SCI-Expanded)

XXIX. **Trajectory tracking control of flexible-joint robots**

Ider S., Ozgoren M.

COMPUTERS & STRUCTURES, cilt.76, sa.6, ss.757-763, 2000 (SCI-Expanded)

XXX. **Sliding mode control with optimal sliding surfaces for missile autopilot design**

Salamci M., Ozgoren M., Banks S.

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XXXI. **Kinematic analysis of a manipulator with its position and velocity related singular configurations**

Ozgoren M.

MECHANISM AND MACHINE THEORY, cilt.34, sa.7, ss.1075-1101, 1999 (SCI-Expanded)

XXXII. **SOME REMARKS ON ROTATION SEQUENCES AND ASSOCIATED ANGULAR VELOCITIES**

OZGOREN M.

MECHANISM AND MACHINE THEORY, cilt.29, sa.7, ss.933-940, 1994 (SCI-Expanded)

## **Diğer Dergilerde Yayınlanan Makaleler**

I. **Comparison of the linear homing, parabolic homing and proportional navigation guidance methods on a two-part homing missile against a surface target**

Özkan B., ÖZGÖREN M. K., Mahmutyazicioğlu G.

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## **Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar**

I. **Biased Proportional Navigation with Exponentially Decaying Error for Impact Angle Control and Path Following**

Erer K. S., Tekin R., ÖZGÖREN M. K.

24th Mediterranean Conference on Control and Automation (MED), Athens, Yunanistan, 21 - 24 Haziran 2016, ss.238-243

II. **A Balance Keeping Control for Humanoid Robots by Using Model Predictive Control**

Bilgin N., ÖZGÖREN M. K.

17th IEEE International Carpathian Control Conference (ICCC), Tatranska Lomnica, Slovakya, 29 Mayıs - 01 Haziran 2016, ss.60-65

III. **Energy Optimal Controller for Electric Vehicles on Partially Icy Roads with Heuristic Skidding Compensation**

Ahiska K., ÖZGÖREN M. K., LEBLEBİCİOĞLU M. K.

15th International Conference on Control, Automation and Systems (ICCAS), Busan, Güney Kore, 13 - 16 Ekim 2015, ss.101-106

IV. **Control of a Planar Satellite with an Unactuated Movable Solar Panel**

Acar Y., Yavuzylmaz C., ÖZGÖREN M. K.

7th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Türkiye, 16 - 19 Haziran 2015, ss.105-110

- V. **Sliding Mode based Longitudinal Guidance of UAVs**  
Shah M. Z., ÖZGÖREN M. K., Samar R.  
United-Kingdom-Automatic-Control-Council (UKACC) 10th International Conference on Control (CONTROL), Loughborough, Birleşik Krallık, 9 - 11 Temmuz 2014, ss.121-126
- VI. **A Generalized Staging Optimization Program For Space Launch Vehicles**  
Civek-Coskun E., ÖZGÖREN M. K.  
6th International Conference on Recent Advances in Space Technologies (RAST), İstanbul, Türkiye, 12 - 14 Haziran 2013, ss.857-862
- VII. **Application of Beacon Navigation and Angle-Only Artillery Surveying Methods for INS Aiding on Aerial Platforms in GNSS Denied Environments**  
Guner D. R. L., ÖZGÖREN M. K., PLATİN B. E.  
ION Pacific PNT Meeting, Hawaii, Amerika Birleşik Devletleri, 23 - 25 Nisan 2013, ss.858-868
- VIII. **Attitude control of a piezo-strut mounted camera on a spacecraft with deployed solar panels**  
Kayastha S., Akbulut B., TEKİNALP O., ÖZGÖREN M. K.  
2011 IEEE Aerospace Conference, AERO 2011, Big Sky, MT, Amerika Birleşik Devletleri, 5 - 12 Mart 2011
- IX. **Estimation of separation aerodynamics using photogrammetric data**  
Murat Karbancoğlu İ., Mahmutyazicioğlu G., ÖZGÖREN M. K.  
AIAA Atmospheric Flight Mechanics Conference 2010, Toronto, Kanada, 2 - 05 Ağustos 2010
- X. **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
- XI. **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
- XII. **The Stabilization Controller Design for a Tripod Type Parallel Manipulator Used for Active Suspension of a Delicate Device**  
Atesoglu O., ÖZGÖREN M. K.  
IEEE International Conference on Control Applications, San-Antonio, Kuzey Mariana Adaları, 3 - 05 Eylül 2008, ss.237-238
- XIII. **Control of constrained spatial three-link flexible manipulators**  
KILIÇASLAN S., ÖZGÖREN M. K., Ider S. K.  
15th Mediterranean Conference on Control and Automation, Athens, Yunanistan, 27 - 29 Haziran 2007, ss.1526-1527
- XIV. **Removing force indeterminacy in a Hooke joint mechanism by increasing and modifying its joints without causing singularities**  
Himmetoglu S., Ozgoren M.  
11th World Congress in Mechanism and Machine Science, Tianjin, Çin, 1 - 04 Nisan 2004, ss.1305-1308

## Metrikler

Yayın: 47

Atıf (WoS): 298

Atıf (Scopus): 333

H-İndeks (WoS): 11

H-İndeks (Scopus): 10

## **Akademi Dışı Deneyim**

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