

# Prof. MUSTAFA ÖZDEMİR

## Personal Information

**Office Phone:** [+90 216 777 3741](tel:+902167773741)

**Email:** [mustafa.ozdemir@marmara.edu.tr](mailto:mustafa.ozdemir@marmara.edu.tr)

**Web:** <https://avesis.marmara.edu.tr/mustafa.ozdemir>

**Address:** Marmara Üniversitesi, Mühendislik Fakültesi, Makine Mühendisliği Bölümü, Recep Tayyip Erdoğan Külliyesi, 34854, Maltepe, İstanbul, Türkiye

## International Researcher IDs

ScholarID: nh2ngFUAAAAJ

ORCID: 0000-0002-4981-9573

Publons / Web Of Science ResearcherID: P-4557-2015

ScopusID: 56536084400

Yoksis Researcher ID: 164019

## Biography

Prof. Dr. Mustafa ÖZDEMİR was born in 1983 in Çorlu, Tekirdağ, Türkiye. Upon graduating from Ankara Science High School in 2001, he received his B.S., M.S. and Ph.D. degrees, all in Mechanical Engineering, from Middle East Technical University (METU) in 2005, 2008 and 2013, respectively. Between 2005 and 2015 he worked as Research Assistant and Instructor in the METU Mechanical Engineering Department. He completed his military service in October 2014 as Reserve Officer with the rank of Artillery Second Lieutenant. He joined the Department of Mechanical Engineering in the Faculty of Engineering at Marmara University as Assistant Professor on 11 June 2015. After being awarded the title of Associate Professor in the field of Mechanical Engineering by the Inter-University Council of Türkiye (ÜAK) on 16 October 2017, he was appointed in the same department as tenured Associate Professor on 08 August 2018 and as Full Professor on 06 March 2024. Prof. Dr. Mustafa ÖZDEMİR is currently the Vice Chairman of the Mechanical Engineering Department and also the Head of the Machine Theory, System Dynamics and Control Division.

## Education

Doctorate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Makine Mühendisliği (Dr), Turkey 2008 - 2013

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Makine Mühendisliği (YI) (Tezli), Turkey 2005 - 2008

Undergraduate, Middle East Technical University, Faculty Of Engineering, Makine Mühendisliği Bölümü, Turkey 2001 - 2005

## Foreign Languages

English, C2 Mastery

## Dissertations

Doctorate, Analysis of Whiplash during rear crash and development of an anti-whiplash seat mechanism, Orta Doğu

Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği (Dr), 2013

Postgraduate, Inverse dynamics control of parallel manipulators around singular configurations, Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Makine Mühendisliği (YI) (Tezli), 2008

## Research Areas

Mechanical Engineering, Machine Theory and Dynamics, System Dynamics and Control, Mechanisms, Vehicle Systems Dynamics, Robotics, Mechanical Vibrations, Engineering and Technology

## Academic Positions

Professor, Marmara University, Faculty of Engineering, Mechanical Engineering, 2024 - Continues

Associate Professor, Marmara University, Faculty of Engineering, Mechanical Engineering, 2017 - 2024

Assistant Professor, Marmara University, Faculty of Engineering, Mechanical Engineering, 2015 - 2017

Lecturer PhD, Middle East Technical University, Faculty Of Engineering, Department Of Mechanical Engineering, 2013 - 2015

Lecturer, Middle East Technical University, Faculty Of Engineering, Department Of Mechanical Engineering, 2012 - 2013

Research Assistant, Middle East Technical University, Faculty Of Engineering, Department Of Mechanical Engineering, 2005 - 2012

## Academic and Administrative Experience

Deputy Head of Department, Marmara University, Faculty of Engineering, Mechanical Engineering, 2024 - Continues

Head of Department, Marmara University, Faculty of Engineering, Mechanical Engineering, 2024 - Continues

## Courses

### Doctorate

Nonlinear Dynamic Systems, Doctorate, 2024 - 2025, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

### Postgraduate

Computer Aided Product Design, Postgraduate, 2024 - 2025, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Numerical Methods for Engineers, Postgraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2017 - 2018

Finite Element Method, Postgraduate, 2024 - 2025, 2020 - 2021, 2019 - 2020, 2018 - 2019

Advanced Vibrations, Postgraduate, 2024 - 2025, 2023 - 2024, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

Makine Elemanları ve Tasarım Ömürleri, Postgraduate, 2023 - 2024

Mezuniyet Projesi, Postgraduate, 2023 - 2024

### Undergraduate

Engineering Project II, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Machine Design Project, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2019 - 2020, 2018 - 2019, 2017 - 2018

Machine Design II, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2019 - 2020, 2017 - 2018

Engineering Project I, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

Automotive Engineering, Undergraduate, 2024 - 2025, 2016 - 2017, 2015 - 2016

Computer-Aided Design Techniques, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021,

2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016  
Mechanisms, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2016 - 2017  
Mechanical Vibrations, Undergraduate, 2022 - 2023, 2021 - 2022  
Numerical Methods, Undergraduate, 2022 - 2023  
Introduction to Finite Element Analysis, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Engineering Project II, Undergraduate, 2021 - 2022, 2015 - 2016  
Engineering Project I, Undergraduate, 2021 - 2022, 2015 - 2016  
Experimental Methods in Mechanical Engineering, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Machine Design I, Undergraduate, 2019 - 2020, 2018 - 2019  
Computational Methods in Mechanical Engineering, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017  
Mechanics of Materials, Undergraduate, 2018 - 2019  
Calculus II, Undergraduate, 2017 - 2018, 2015 - 2016  
Mathematical Modeling in Mechanical Engineering, Undergraduate, 2016 - 2017  
Experimental Methods in Mechanical Engineering, Undergraduate, 2017 - 2018, 2016 - 2017  
Computational Methods in Mechanical Engineering, Undergraduate, 2015 - 2016  
Calculus I, Undergraduate, 2015 - 2016

## Supervised Theses

Özdemir M., Comparison of Various Vehicle Models Used to Evaluate the Ride Comfort of In-Wheel Motor Electric Cars, Postgraduate, U.BARAN(Student), Continues  
Özdemir M., Singularities of a Two-Legged Three-Degree-of-Freedom Planar Parallel Robot Whose Legs Consist of Kinematic Chains that are Different from Each Other, Postgraduate, H.EREN(Student), Continues  
Özdemir M., DESIGN AND MOTION PLANNING OF PLANAR (3+1)-DEGREE-OF-FREEDOM KINEMATICALLY REDUNDANT RPR-RPRR PARALLEL ROBOTS FOR OPTIMAL ELIMINATION OF ACTUATION SINGULARITIES, Postgraduate, M.YASİR(Student), 2024  
Özdemir M., OPTIMAL PLANNING OF PIECEWISE QUINTIC POLYNOMIAL TRAJECTORIES FOR PARALLEL ROBOTS TO PASS THROUGH SINGULARITIES, Postgraduate, C.BURAK(Student), 2023  
Özdemir M., STRENGTH OF ACTUATION SINGULARITIES OF CORANK 2 IN PLANAR 3-PRR PARALLEL ROBOTS, Postgraduate, E.GÜN(Student), 2023  
Özdemir M., Position-level forward kinematic singularities of RPRPR planar parallel robots, Postgraduate, L.KARAKAYA(Student), 2023  
Özdemir M., Path curve design for cancellation of singularities of two-degree-of-freedom planar parallel robots, Postgraduate, S.YALÇIN(Student), 2023  
Özdemir M., An analysis of the effects of battery location in electric automobiles on ride comfort considering spring and damper nonlinearities of suspension system, Postgraduate, E.OSMAN(Student), 2022  
Özdemir M., Balancing of 3-RPR planar parallel robots passing through singular configurations, Postgraduate, C.SÜÜLKER(Student), 2018

## Jury Memberships

Associate Professor Exam, Associate Professor Exam, Üniversitelerarası Kurul Başkanlığı, May, 2024  
Doctorate, Doctorate, Orta Doğu Teknik Üniversitesi, October, 2021  
Post Graduate, Post Graduate, İstanbul Üniversitesi, June, 2018

## Journal articles indexed in SCI, SSCI, and AHCI

- I. **PATH AND TRAJECTORY PLANNING OF A RPRPR PLANAR PARALLEL ROBOT FOR PREVENTION OF HIGH-ORDER SINGULARITIES**  
Özdemir M., Karakaya L.  
PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE, vol.25, no.1, pp.65-74, 2024 (SCI-Expanded)
- II. **Determination of optimal battery locations for ride comfort in electric automobiles using a nonlinear half-vehicle suspension model**  
Özdemir M., Erdoğan E. O.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.39, no.1, pp.339-350, 2024 (SCI-Expanded)
- III. **Integrated Force/Motion Trajectory Design of Parallel Robots for Singularity Robustness during Contact Tasks**  
ÖZDEMİR M., İDER S. K.  
ACTA POLYTECHNICA HUNGARICA, vol.20, no.2, pp.41-61, 2023 (SCI-Expanded)
- IV. **HYPERSINGULARITIES OF 3-RRR PLANAR PARALLEL ROBOTS**  
ÖZDEMİR M.  
PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE, vol.22, no.4, pp.353-360, 2021 (SCI-Expanded)
- V. **Desingularization of Flexible-Joint Parallel Robots**  
ÖZDEMİR M., İDER S. K.  
ACTA POLYTECHNICA HUNGARICA, vol.18, no.6, pp.85-106, 2021 (SCI-Expanded)
- VI. **High-order singularities of 5R planar parallel robots**  
ÖZDEMİR M.  
ROBOTICA, vol.37, no.2, pp.233-245, 2019 (SCI-Expanded)
- VII. **Singularity analysis of two-legged planar parallel robots with three degrees of freedom**  
ÖZDEMİR M.  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART C-JOURNAL OF MECHANICAL ENGINEERING SCIENCE, vol.232, no.4, pp.657-664, 2018 (SCI-Expanded)
- VIII. **Dynamic analysis of planar parallel robots considering singularities and different payloads**  
ÖZDEMİR M.  
ROBOTICS AND COMPUTER-INTEGRATED MANUFACTURING, vol.46, pp.114-121, 2017 (SCI-Expanded)
- IX. **Optimization in motion planning for parallel robots passing through singular positions**  
ÖZDEMİR M.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.32, no.4, pp.1089-1096, 2017 (SCI-Expanded)
- X. **Removal of singularities in the inverse dynamics of parallel robots**  
ÖZDEMİR M.  
MECHANISM AND MACHINE THEORY, vol.107, pp.71-86, 2017 (SCI-Expanded)
- XI. **Singularity robust balancing of parallel manipulators following inconsistent trajectories**  
Ozdemir M.  
ROBOTICA, vol.34, no.9, pp.2027-2038, 2016 (SCI-Expanded)
- XII. **Singularity-consistent payload locations for parallel manipulators**  
ÖZDEMİR M.  
MECHANISM AND MACHINE THEORY, vol.97, pp.171-189, 2016 (SCI-Expanded)
- XIII. **Experimental and numerical investigation of comparability of whiplash sled test results**  
ÖZDEMİR M., İDER S. K., GÖKLER M. İ.  
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.38, no.2, pp.395-402, 2016 (SCI-Expanded)
- XIV. **A switching inverse dynamics controller for parallel manipulators around drive singular configurations**  
Ozdemir M., İder S. K.

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.24, no.5, pp.4267-4283, 2016 (SCI-Expanded)

XV. **Parametric analysis of an anti-whiplash system composed of a seat suspension arrangement**

Özdemir M., Ider S. K., GÖKLER M. İ.

JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, vol.37, no.2, pp.777-784, 2015 (SCI-Expanded)

XVI. **In vitro investigation and biomechanical modeling of the effects of PLF-68 on osteoarthritis in a three-dimensional model**

Kavas A., Özdemir M., GÜRSES S., KESKİN D., TEZCANER A.

BIOMECHANICS AND MODELING IN MECHANOBIOLOGY, vol.10, no.5, pp.641-650, 2011 (SCI-Expanded)

## Articles Published in Other Journals

I. **A STUDY ON MOTION PLANNING OF FOUR-BAR MECHANISMS IN THE PRESENCE OF SINGULARITIES**

Özdemir M.

Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.18, no.53, pp.192-204, 2016 (Peer-Reviewed Journal)

## Papers Presented at Peer-Reviewed Scientific Conferences

I. **Elimination of actuation singularities of kinematically redundant RPR-RPRR planar parallel robots**

ÖZDEMİR M., ÇUBUK M. Y.

9th International IFS and Contemporary Mathematics and Engineering Conference (IFSCOM-E 2023), Mersin, Turkey, 8 - 11 July 2023, pp.170-177, (Full Text)

II. **Corank 2 singularities of planar 3-PRR parallel robots**

ÖZDEMİR M., GÜN E.

3rd International Symposium of Scientific Research and Innovative Studies (ISSRIS'23), Turkey, 15 - 18 March 2023, pp.306-314, (Full Text)

III. **Formulation of a 7-DOF half-car model with nonlinear springs and dampers for ride comfort analysis of in-wheel-motor electric vehicles**

ÖZDEMİR M., ERDOĞAN E. O.

6th International Conference on Computational Mathematics and Engineering Sciences (CMES-2022), Ordu, Turkey, 20 - 22 May 2022, pp.83-92, (Full Text)

IV. **Planning of piecewise quintic polynomial trajectories for parallel robots to pass through singularities**

ÖZDEMİR M., ÜNSAL C. B.

10th International Conference on Advanced Technologies (ICAT'22), Van, Turkey, 25 - 27 November 2022, pp.360-364, (Full Text)

V. **Analysis of position-level forward kinematic singularities of planar RPRPR parallel robots**

ÖZDEMİR M., KARAKAYA L.

6th International Conference on Engineering Technologies (ICENTE'22), Konya, Turkey, 17 - 19 November 2022, pp.331-334, (Full Text)

VI. **Cancellation of singularities of RRRRP planar parallel robots**

ÖZDEMİR M., ÖNAL S. Y.

The 19th International Conference on Machine Design and Production (UMTIK 2022), Nevşehir, Turkey, 31 August - 03 September 2022, pp.497-509, (Full Text)

VII. **Counterweight balancing of a 3-RPR planar parallel robot for passing through a singularity**

Özdemir M., Süülker C.

9th International Automotive Technologies Congress (OTEKON 2018), Bursa, Turkey, 7 - 08 May 2018, pp.1060-

1067, (Full Text)

- VIII. **Trajectory planning of planar three-degree-of-freedom 2-RRR parallel manipulators for passing through singular configurations in the presence of unknown payloads**  
Özdemir M.  
17th International Conference on Machine Design and Production (UMTIK 2016), Bursa, Turkey, 12 - 15 July 2016, pp.89, (Full Text)
- IX. **Spring balancing of a five-bar parallel manipulator in the presence of singularities**  
Özdemir M.  
2nd International Conference on Advances in Mechanical Engineering (ICAME2016), İstanbul, Turkey, 10 - 13 May 2016, pp.354-357, (Full Text)
- X. **Comparison of the whiplash assessment procedures: A review paper**  
Özdemir M., İder S. K., Gökler M. İ.  
8. Mühendislik ve Teknoloji Sempozyumu, Ankara, Turkey, 14 - 15 May 2015, pp.77-81, (Full Text)
- XI. **Combinational effects of BMP9, Raloxifene and Pluronic F-68 on OA-like chondrocytes**  
Kavas A., Özdemir M., Erdemli Ö., Gürses S., Keskin D., Tezcaner A.  
3rd TERMIS World Congress 2012 - Journal of Tissue Engineering and Regenerative Medicine, Vienna, Austria, 5 - 08 September 2012, vol.6, pp.73, (Summary Text)
- XII. **Classification of anti-whiplash systems: A patent survey**  
Özdemir M., İder S. K., Gökler M. İ., Dicle H., Anık E., İnce M. S.  
6. Otomotiv Teknolojileri Kongresi (OTEKON 2012), Bursa, Turkey, 4 - 05 June 2012, pp.77-78, (Full Text)
- XIII. **Finite element analysis of effect of backset distance on whiplash syndrome using BioRID II and simplified seat models**  
Özdemir M., İder S. K., Gökler M. İ., Dicle H., Anık E., İnce M. S.  
6. Otomotiv Teknolojileri Kongresi (OTEKON 2012), Bursa, Turkey, 4 - 05 June 2012, pp.79-80, (Full Text)
- XIV. **"BioRID II" ve basitleştirilmiş koltuk modelleri ile "whiplash" analizi**  
Özdemir M., İder S. K., Gökler M. İ., Dicle H., Anık E., İnce M. S.  
5. Otomotiv Teknolojileri Kongresi (OTEKON 2010), Bursa, Turkey, 7 - 08 June 2010, pp.313-320, (Full Text)
- XV. **Investigation of effect of PLF-68 on osteoarthritic chondrocytes embedded in agarose and Kelvin model development for further analysis**  
Kavas A., Özdemir M., Gürses S., Keskin D., Tezcaner A.  
International Symposium on Biotechnology: Developments and Trends (BIOTECH METU 2009), Ankara, Turkey, 27 - 30 September 2009, pp.102, (Summary Text)
- XVI. **A computer program for drawing the cubic of stationary curvature of a given four-bar mechanism**  
Özdemir M., Söylemez E.  
14. Ulusal Makina Teorisi Sempozyumu (UMTS 2009), Güzelyurt, Cyprus (Kktc), 2 - 04 July 2009, pp.443-448, (Full Text)

## Funded Projects

Gökler M. İ., Özdemir M., Project Supported by Other Private Institutions, Yenilikçi Bir Çarpma Traversi Geliştirmeye Yönelik AR-GE Projesi, 2014 - 2015

İder S. K., Gökler M. İ., Özdemir M., Project Supported by Other Private Institutions, Anti-whiplash mekanizmasının detay tasarımı ve testleri, 2009 - 2010

İder S. K., Gökler M. İ., Özdemir M., Project Supported by Other Private Institutions, Anti-whiplash mekanizmasının tasarımı, 2008 - 2009

## Patent

Özdemir M., İder S. K., Anık E., Gökler M. İ., Dicle H. H., İnce M. S., Beyhan İ., Boyun incinmelerini önleyici bir araç koltuk

mekanizması, Patent, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: 2011 12297 , Standard Registration, 2018

## **Student Project**

Other, Development of a computer program for the finite element analysis and design of planar frame structures, Marmara University, Faculty of Engineering, Mechanical Engineering, Turkey, 2023 - 2024

Other, Development of a computer program for the finite element analysis and design of spatial frame structures, Marmara University, Faculty of Engineering, Mechanical Engineering, Turkey, 2023 - 2024

Other, Development of a computer program for the finite element analysis and design of planar truss structures, Marmara University, Faculty of Engineering, Mechanical Engineering, Turkey, 2023 - 2024

Other, Development of a computer program for the finite element analysis and design of spatial truss structures, Marmara University, Faculty of Engineering, Mechanical Engineering, Turkey, 2023 - 2024

Other, Design of a truck cab suspension system, Marmara University, Faculty of Engineering, Mechanical Engineering, Turkey, 2022 - 2023

Other, Design of a six-link steering mechanism for automotive vehicles, Marmara University, Faculty of Engineering, Mechanical Engineering, Turkey, 2022 - 2023

Other, Design of a bus suspension, Marmara University, Faculty of Engineering, Mechanical Engineering, Turkey, 2022 - 2023

Other, Computer aided mechanical design of shafts, Marmara University, Faculty of Engineering, Mechanical Engineering, Turkey, 2021 - 2022

Other, A computer program for design of spur gears, Marmara University, Faculty of Engineering, Mechanical Engineering, Turkey, 2020 - 2021

Other, A computer program for design of journal bearings, Marmara University, Faculty of Engineering, Mechanical Engineering, Turkey, 2020 - 2021

Other, Design of an automobile suspension system based on the 7-DOF full car model, Marmara University, Faculty of Engineering, Mechanical Engineering, Turkey, 2019 - 2020

Other, Optimal design of a steering linkage for automobiles, Marmara University, Faculty of Engineering, Mechanical Engineering, Turkey, 2019 - 2020

Other, Design and optimization of an active suspension system, Marmara University, Faculty of Engineering, Mechanical Engineering, Turkey, 2018 - 2019

Other, Design of an Ackermann steering mechanism, Marmara University, Faculty of Engineering, Mechanical Engineering, Turkey, 2017 - 2018

Other, Crash safety design of automobiles, Marmara University, Faculty of Engineering, Mechanical Engineering, Turkey, 2016 - 2017

Other, Design of an automobile suspension: A methodological improvement, Marmara University, Faculty of Engineering, Mechanical Engineering, Turkey, 2015 - 2016

## **Activities in Scientific Journals**

International journal of advances in engineering and pure sciences (Online), Committee Member, 2020 - 2024

## **Peer Reviews in Scientific Publications**

International journal of advances in engineering and pure sciences (Online), National Scientific Refreed Journal, August 2024

ADVANCED ROBOTICS, Journal Indexed in SCI-E, September 2023

International Journal of Automotive Science and Technology, Other Indexed Journal, September 2023

TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, Journal Indexed in SCI-E, June 2022  
SADHANA - ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, Journal Indexed in SCI-E, May 2022  
MECHANISM AND MACHINE THEORY, Journal Indexed in SCI-E, April 2022  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, Journal Indexed in SCI-E,  
March 2022  
SADHANA - ACADEMY PROCEEDINGS IN ENGINEERING SCIENCES, Journal Indexed in SCI-E, March 2022  
International journal of advances in engineering and pure sciences (Online), National Scientific Refreed Journal, October  
2021  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, Journal Indexed in SCI-E,  
September 2021  
JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, Journal Indexed in SCI-E, July  
2021  
NONLINEAR DYNAMICS, Journal Indexed in SCI-E, July 2021  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, Journal Indexed in SCI-E, June  
2021  
EUROPEAN JOURNAL OF PHYSICS, Journal Indexed in SCI-E, June 2021  
NONLINEAR DYNAMICS, Journal Indexed in SCI-E, June 2021  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, Journal Indexed in SCI-E, May  
2021  
MECHANISM AND MACHINE THEORY, Journal Indexed in SCI-E, May 2021  
NONLINEAR DYNAMICS, Journal Indexed in SCI-E, May 2021  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, Journal Indexed in SCI-E,  
March 2021  
MECHANISM AND MACHINE THEORY, Journal Indexed in SCI-E, March 2021  
MECHANISM AND MACHINE THEORY, Journal Indexed in SCI-E, February 2021  
MECHANISM AND MACHINE THEORY, Journal Indexed in SCI-E, December 2020  
MECHANISM AND MACHINE THEORY, Journal Indexed in SCI-E, November 2020  
MECHANISM AND MACHINE THEORY, Journal Indexed in SCI-E, September 2020  
Celal Bayar Üniversitesi Fen Bilimleri Dergisi, National Scientific Refreed Journal, July 2020  
MECHANISM AND MACHINE THEORY, Journal Indexed in SCI-E, March 2020  
MECHANISM AND MACHINE THEORY, Journal Indexed in SCI-E, February 2020  
MECHANICS BASED DESIGN OF STRUCTURES AND MACHINES, Journal Indexed in SCI-E, December 2019  
MECHANISM AND MACHINE THEORY, Journal Indexed in SCI-E, June 2019  
ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING, Journal Indexed in SCI-E, May 2019  
MECHANISM AND MACHINE THEORY, Journal Indexed in SCI-E, May 2019  
ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING, Journal Indexed in SCI-E, April 2019  
MECHANISM AND MACHINE THEORY, Journal Indexed in SCI-E, April 2019  
MATHEMATICAL PROBLEMS IN ENGINEERING, Other Indexed Journal, December 2018  
ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING, Journal Indexed in SCI-E, December 2018  
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART I: JOURNAL OF SYSTEMS AND CONTROL  
ENGINEERING, Journal Indexed in SCI-E, November 2018  
MATHEMATICAL PROBLEMS IN ENGINEERING, Other Indexed Journal, November 2018  
ROBOTICA, Journal Indexed in SCI-E, October 2018  
MECHANISM AND MACHINE THEORY, Journal Indexed in SCI-E, September 2018  
EUROPEAN JOURNAL OF PHYSICS, Journal Indexed in SCI-E, September 2018  
ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING, Journal Indexed in SCI-E, August 2018  
ROBOTICA, Journal Indexed in SCI-E, August 2018  
MECHANISM AND MACHINE THEORY, Journal Indexed in SCI-E, July 2018  
MATHEMATICAL PROBLEMS IN ENGINEERING, Other Indexed Journal, July 2018  
MECHANISM AND MACHINE THEORY, Journal Indexed in SCI-E, May 2018  
ROBOTICA, Journal Indexed in SCI-E, May 2018



JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, Journal Indexed in SCI-E, April 2018

ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING, Journal Indexed in SCI-E, April 2018

JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, Journal Indexed in SCI-E, February 2018

MEASUREMENT: JOURNAL OF THE INTERNATIONAL MEASUREMENT CONFEDERATION, Journal Indexed in SCI-E, January 2018

MECHANISM AND MACHINE THEORY, Journal Indexed in SCI-E, December 2017

JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, Journal Indexed in SCI-E, December 2017

JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, Journal Indexed in SCI-E, October 2017

ROBOTICA, Journal Indexed in SCI-E, August 2017

MEASUREMENT: JOURNAL OF THE INTERNATIONAL MEASUREMENT CONFEDERATION, Journal Indexed in SCI-E, August 2017

ADVANCED ROBOTICS, Journal Indexed in SCI-E, June 2017

ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING, Journal Indexed in SCI-E, May 2017

ADVANCED ROBOTICS, Journal Indexed in SCI-E, March 2017

18. Ulusal Makina Teorisi Sempozyumu (UMTS 2017), Conference Paper (Full Text), March 2017

APPLIED MATHEMATICAL MODELLING, Journal Indexed in SCI-E, March 2017

18. Ulusal Makina Teorisi Sempozyumu (UMTS 2017), Conference Paper (Full Text), March 2017

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS. PART I: JOURNAL OF SYSTEMS AND CONTROL ENGINEERING, Journal Indexed in SCI-E, December 2016

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS. PART I: JOURNAL OF SYSTEMS AND CONTROL ENGINEERING, Journal Indexed in SCI-E, November 2016

ROBOTICA, Journal Indexed in SCI-E, May 2016

The 17th International Conference On Machine Design And Production (UMTIK 2016), Conference Paper (Full Text), April 2016

The 17th International Conference On Machine Design And Production (UMTIK 2016), Conference Paper (Full Text), April 2016

CANKAYA UNIVERSITY JOURNAL OF SCIENCE AND ENGINEERING, Other Indexed Journal, March 2016

ADVANCED ROBOTICS, Journal Indexed in SCI-E, January 2016

ROBOTICA, Journal Indexed in SCI-E, January 2016

CANKAYA UNIVERSITY JOURNAL OF SCIENCE AND ENGINEERING, Other Indexed Journal, October 2015

ADVANCED ROBOTICS, Journal Indexed in SCI-E, September 2015

ADVANCED ROBOTICS, Journal Indexed in SCI-E, September 2015

ROBOTICA, Journal Indexed in SCI-E, March 2015

ROBOTICA, Journal Indexed in SCI-E, February 2015

ROBOTICA, Journal Indexed in SCI-E, December 2014

ADVANCED ROBOTICS, Journal Indexed in SCI-E, December 2014

ROBOTICA, Journal Indexed in SCI-E, November 2014

ROBOTICA, Journal Indexed in SCI-E, May 2014

IEEE TRANSACTIONS ON ROBOTICS, Journal Indexed in SCI-E, January 2014

### **Scientific Project Refereeing**

Project Supported by Higher Education Institutions, BAP Research Project, September 2018

## Metrics

Publication: 33  
Citation (WoS): 59  
Citation (Scopus): 82  
H-Index (WoS): 5  
H-Index (Scopus): 5

## Scholarships

TÜBİTAK Yurt İçi Doktora Bursu, TUBİTAK, 2008 - 2013  
TÜBİTAK Yurt İçi Yüksek Lisans Bursu, TUBİTAK, 2006 - 2007

## Awards

Özdemir M., "Determination of optimal battery locations for ride comfort in electric automobiles using a nonlinear half-vehicle suspension model" başlıklı makale ile TÜBİTAK Türkiye Adresli Uluslararası Bilimsel Yayınları Teşvik (UBYT) Programı kapsamında teşvik, Tübitak, February 2025  
Özdemir M., "High-order singularities of 5R planar parallel robots" başlıklı makale ile TÜBİTAK Türkiye Adresli Uluslararası Bilimsel Yayınları Teşvik (UBYT) Programı kapsamında teşvik, Tübitak, September 2019  
Özdemir M., Otomotiv Tez Ödülleri, Iaec'18 Uluslararası Otomotiv Mühendisliği Konferansı, November 2018  
Özdemir M., "Singularity analysis of two-legged planar parallel robots with three degrees of freedom" başlıklı makale ile TÜBİTAK Türkiye Adresli Uluslararası Bilimsel Yayınları Teşvik (UBYT) Programı kapsamında teşvik, Tübitak, September 2018  
Özdemir M., Outstanding Contribution in Reviewing, Mechanism And Machine Theory, Elsevier, May 2018  
Özdemir M., Outstanding Contribution in Reviewing, Archives Of Civil And Mechanical Engineering, Elsevier, April 2018  
Özdemir M., "Optimization in motion planning for parallel robots passing through singular positions" başlıklı makale ile TÜBİTAK Türkiye Adresli Uluslararası Bilimsel Yayınları Teşvik (UBYT) Programı kapsamında teşvik, Tübitak, April 2018  
Özdemir M., "Removal of singularities in the inverse dynamics of parallel robots" başlıklı makale ile TÜBİTAK Türkiye Adresli Uluslararası Bilimsel Yayınları Teşvik (UBYT) Programı kapsamında teşvik, Tübitak, March 2018  
Özdemir M., "Dynamic analysis of planar parallel robots considering singularities and different payloads" başlıklı makale ile TÜBİTAK Türkiye Adresli Uluslararası Bilimsel Yayınları Teşvik (UBYT) Programı kapsamında teşvik, Tübitak, March 2018  
Özdemir M., Outstanding Contribution in Reviewing, Measurement, Elsevier, January 2018  
Özdemir M., "Singularity robust balancing of parallel manipulators following inconsistent trajectories" başlıklı makale ile TÜBİTAK Türkiye Adresli Uluslararası Bilimsel Yayınları Teşvik (UBYT) Programı kapsamında teşvik, Tübitak, May 2017  
Özdemir M., "A switching inverse dynamics controller for parallel manipulators around drive singular configurations" başlıklı makale ile TÜBİTAK Türkiye Adresli Uluslararası Bilimsel Yayınları Teşvik (UBYT) Programı kapsamında teşvik, Tübitak, May 2017  
Özdemir M., "Singularity-consistent payload locations for parallel manipulators" başlıklı makale ile TÜBİTAK Türkiye Adresli Uluslararası Bilimsel Yayınları Teşvik (UBYT) Programı kapsamında teşvik, Tübitak, March 2017

## Non Academic Experience

Türk Silahlı Kuvvetleri, Yedek Subay olarak Askerlik Hizmeti