

## **Prof. Mehmet BOZCA**

### **Personal Information**

**Email:** mbozca@yildiz.edu.tr

**Web:** <https://avesis.yildiz.edu.tr/mbozca>

### **International Researcher IDs**

ORCID: 0000-0002-2620-6053

Publons / Web Of Science ResearcherID: AAP-5362-2020

ScopusID: 25627404300

Yoksis Researcher ID: 185236

### **Education Information**

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Makina Mühendisliği, Turkey 1999 - 2005

Postgraduate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Makina Mühendisliği, Turkey 1993 - 1996

Undergraduate, Yıldız Üniversitesi, Mühendislik Fakültesi, Makina Mühendisliği, Turkey 1983 - 1987

### **Research Areas**

Mechanical Engineering, Construction and Manufacturing, Machine Elements, Engineering and Technology

### **Academic Titles / Tasks**

Professor, Yıldız Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2021 - Continues

Associate Professor, Yıldız Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2014 - 2021

Assistant Professor, Yıldız Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2009 - 2014

Lecturer PhD, Yıldız Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2005 - 2009

Research Assistant, Yıldız Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 1998 - 2005

### **Academic and Administrative Experience**

Fakülte Yönetim Kurulu Üyesi, Yıldız Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2018 - 2020

Fakülte Kurulu Üyesi, Yıldız Technical University, Faculty Of Mechanical Engineering, Department Of Mechanical Engineering, 2018 - 2020

## Courses

ADVANCED BEARING TECHNOLOGY, Postgraduate, 2023 - 2024, 2020 - 2021, 2018 - 2019  
MACHINE ELEMENTS-1, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017  
MACHINE ELEMENTS-2, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017  
KONSTRÜKSİYONDA GÜVENİRLİK, Postgraduate, 2022 - 2023, 2019 - 2020, 2016 - 2017, 2014 - 2015, 2012 - 2013  
DIŞLİ ÇARK MEKANİZMALARININ OPTİMİZASYONU, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2019 - 2020, 2017 - 2018, 2015 - 2016, 2014 - 2015, 2013 - 2014  
KONSTRÜKSİYONDA HASAR TÜRLERİ, Postgraduate, 2017 - 2018, 2016 - 2017

## Advising Theses

BOZCA M., Dişli Çark Geometrik Parametrelerinin Optimizasyonu, Postgraduate, E.Can(Student), 2019  
BOZCA M., Ağır Ticari Araçlarda Kullanılan Parabolik Yaprak Yayların Yorulma Davranışının İncelenmesi, Postgraduate, U.Taner(Student), 2016  
BOZCA M., Hafif Ticari Araçlarda Motor Traversinin Yapısal Optimizasyonu, Postgraduate, Ö.Höke(Student), 2016  
BOZCA M., Dişli Çarklarda Yüzey Hasarının ve Etkili Parametrelerinin Deneysel Olarak İncelenmesi, Postgraduate, A.İpekçi(Student), 2015  
BOZCA M., Profil Kaydırmalı Helisel Alın Dişli Çark Mekanizmalarının Optimizasyonu, Postgraduate, N.Okan(Student), 2012  
BOZCA M., Değişken Yükleme Koşulları Altında Helisel Alın Dişli Çark Mekanizmalarının Bilgisayar Yardımıyla Hesaplanması, Postgraduate, M.Çağdaş(Student), 2011

## Jury Memberships

Associate Professor Exam, Associate Professor Exam, Hacettepe Üniversitesi, April, 2024  
Associate Professor Exam, Associate Professor Exam, Yıldız Technical University, March, 2024  
Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, January, 2024  
Associate Professor Exam, Associate Professor Exam, Üniversitelerarası Kurul ÜAK, October, 2023  
Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, June, 2023  
Associate Professor Exam, Associate Professor Exam, Üniversitelerarası Kurul ÜAK, March, 2023  
Doctorate, Doctorate, Yıldız Teknik Üniversitesi, March, 2023  
Doctorate, Doctorate, Yıldız Teknik Üniversitesi, February, 2023  
Doctorate, Doctorate, Yıldız Teknik Üniversitesi, February, 2023  
Associate Professor Exam, Associate Professor Exam, Üniversitelerarası Kurul UAK, October, 2022  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Yıldız Teknik Üniversitesi, June, 2022  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Yıldız Teknik Üniversitesi, June, 2022  
Associate Professor Exam, Associate Professor Exam, Üniversitelerarası Kurul ÜAK, March, 2022  
Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Akdeniz Üniversitesi, February, 2022  
Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, July, 2021  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Yıldız Teknik Üniversitesi, June, 2021  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Yıldız Teknik Üniversitesi, December, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Yıldız Teknik Üniversitesi, June, 2020  
Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, December, 2019  
Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, December, 2019  
Doctoral Examination, Doktora Yeterlik Jürisi, YILDIZ TEKNİK ÜNİVERSİTESİ, April, 2019  
Doctoral Examination, Doktora Yeterlik Jürisi, İSTANBUL TEKNİK ÜNİVERSİTESİ, December, 2017  
Post Graduate, YL. Tez Savunma Jürisi, YILDIZ TEKNİK ÜNİVERSİTESİ, October, 2017  
Post Graduate, YL. Tez Savunma Jürisi, YILDIZ TEKNİK ÜNİVERSİTESİ, July, 2017  
Doctoral Examination, Doktora Yeterlik Jürisi, İSTANBUL TEKNİK ÜNİVERSİTESİ, May, 2017  
Post Graduate, YL. Tez Savunma Jürisi, İSTANBUL AYDIN ÜNİVERSİTESİ, May, 2017  
Post Graduate, YL. Tez Savunma Jürisi, İSTANBUL AYDIN ÜNİVERSİTESİ, May, 2017  
Doctoral Examination, Doktora Yeterlik Jürisi, İSTANBUL TEKNİK ÜNİVERSİTESİ, December, 2016  
Doctoral Examination, Doktora Yeterlik Jürisi, YILDIZ TEKNİK ÜNİVERSİTESİ, October, 2016  
Post Graduate, YL. Tez Savunma Jürisi, YILDIZ TEKNİK ÜNİVERSİTESİ, October, 2016  
Post Graduate, YL. Tez Savunma Jürisi, YILDIZ TEKNİK ÜNİVERSİTESİ, June, 2016  
Post Graduate, YL. Tez Savunma Jürisi, YILDIZ TEKNİK ÜNİVERSİTESİ, May, 2016  
Post Graduate, YL. Tez Savunma Jürisi, YILDIZ TEKNİK ÜNİVERSİTESİ, March, 2016  
Post Graduate, YL. Tez Savunma Jürisi, İSTANBUL TEKNİK ÜNİVERSİTESİ, June, 2013  
Post Graduate, YL. Tez Savunma Jürisi, YILDIZ TEKNİK ÜNİVERSİTESİ, June, 2012  
Post Graduate, YL. Tez Savunma Jürisi, İSTANBUL TEKNİK ÜNİVERSİTESİ, December, 2011

## Designed Lessons

Bozca M., ADVANCED BEARING TECHNOLOGY, Postgraduate, 2015 - 2016  
Bozca M., KONSTRÜKSİYONDA HASAR TÜRLERİ, Postgraduate, 2014 - 2015  
Bozca M., DİŞLİ ÇARK MEKANİZMALARININ OPTİMİZASYONU, Postgraduate, 2009 - 2010

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Experimental and numerical analysis of the static strength and fatigue life reliability of parabolic leaf springs in heavy commercial trucks**  
Ceyhanlı U. T., Bozca M.  
ADVANCES IN MECHANICAL ENGINEERING, vol.12, no.7, pp.1-17, 2020 (SCI-Expanded)
- II. **Topology Optimisation of Engine Cross Members for Lightweight Structure in Light Commercial Vehicles**  
Hoke O., Bozca M.  
INTERNATIONAL JOURNAL OF PRECISION ENGINEERING AND MANUFACTURING, vol.21, pp.465-482, 2020 (SCI-Expanded)
- III. **Transmission error model-based optimisation of the geometric design parameters of an automotive transmission gearbox to reduce gear-rattle noise**  
Bozca M.  
APPLIED ACOUSTICS, vol.130, pp.247-259, 2018 (SCI-Expanded)
- IV. **Heat Treatment Effects on the Mechanical Properties and Microstructure of 30MnB4 Steel Bolts**  
Kınıt U., Bozca M.  
MATERIALS TESTING, vol.56, pp.945-949, 2014 (SCI-Expanded)
- V. **Optimisation of geometric parameters of gears under variable loading condition**  
Bozca M., Dikmen F.  
Advanced Materials, vol.445, pp.1005-1010, 2012 (SCI-Expanded)
- VI. **Torsional vibration model based optimization of gearbox geometric design parameters to reduce**

### **rattle noise in an automotive transmission**

Bozca M.

MECHANISM AND MACHINE THEORY, vol.45, no.11, pp.1583-1598, 2010 (SCI-Expanded)

### **VII. Empirical model based optimization of gearbox geometric design parameters to reduce rattle noise in an automotive transmission**

Bozca M., Fietkau P.

MECHANISM AND MACHINE THEORY, vol.45, no.11, pp.1599-1612, 2010 (SCI-Expanded)

### **VIII. Influence of core hardness on bending strength of tooth in cylindrical gears under quasistatic loading conditions**

BOZCA M.

Fatigue and Fracture of Engineering Materials and Structures, vol.31, pp.902-910, 2008 (SCI-Expanded)

### **IX. Decoupled approach to integrated optimum design of structures and robust control system**

Bozca M., Mugaň A., Temeltaş H.

Structural And Multidisciplinary Optimization, vol.36, pp.169-191, 2007 (SCI-Expanded)

## **Articles Published in Other Journals**

### **I. Optimising the geometric parameters of a gear in a tractor transmission under constraints using KISSSOFT**

Can E., Bozca M.

ACTA MECHANICA ET AUTOMATICA, vol.17, no.2, pp.145-159, 2023 (ESCI)

### **II. Effects of design parameters on static equivalent stress of radial rolling bearings**

Bozca M.

Acta Polytechnica, vol.61, no.1, pp.163-173, 2021 (ESCI)

### **III. Dynamics analysis of a truss system modelled by the finite element method in the frequency domain**

Bozca M.

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.38, no.3, pp.1381-1398, 2020 (ESCI)

### **IV. Investigation of the effective parameters of scuffing failure in gears**

Bozca M.

Ukrainian J. of Mechanical Engineering and Materials Science, vol.6, no.1, pp.1-7, 2020 (Peer-Reviewed Journal)

### **V. Systematic investigation of stresses in concentrically clamped bolted joints using the finite element method**

Bozca M.

Mathematical Modeling and Computing, vol.7, no.2, pp.345-365, 2020 (Scopus)

### **VI. An experimental study of the effects of temperature and acceleration on gear rattle noise**

Bozca M.

Technium: Romanian Journal of Applied Sciences and Technology, vol.2, no.6, pp.74-86, 2020 (Peer-Reviewed Journal)

### **VII. Reliability analysis of the mechanical properties of 30MnB4 high strength steel bolts under static loading conditions**

Bozca M., Kimit U.

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.38, no.2, pp.495-512, 2020 (ESCI)

### **VIII. Optimisation of gear geometrical parameters using KISSSOFT**

Can E., Bozca M.

International Scientific Journal Machines. Technologies. Materials., vol.13, no.1, pp.7-10, 2019 (Peer-Reviewed Journal)

### **IX. Finite elements method modelling of rolling bearings**

Koç M., Bozca M.

International Scientific Journal Machines. Technologies. Materials., vol.13, no.2, pp.62-65, 2019 (Peer-Reviewed Journal)

- X. **Sertleştirilmiş silindirik düz dişli çarkın statik eğilme dayanımının güvenilirlik analizi**  
Bozca M.  
International journal of advances in engineering and pure sciences (Online), vol.30, no.4, pp.388-397, 2018 (Peer-Reviewed Journal)
- XI. **Helix angle effect on the helical gear load carrying capacity**  
Bozca M.  
World Journal of Engineering and Technology, vol.6, no.4, pp.825-838, 2018 (Peer-Reviewed Journal)
- XII. **Optimisation of effective design parameters for an automotive transmission gearbox to reduce tooth bending stress**  
Bozca M.  
Modern Mechanical Engineering, vol.7, no.2, pp.35-56, 2017 (Peer-Reviewed Journal)
- XIII. **Singular value decomposition based optimisation of design parameters of a gearbox**  
Bozca M.  
International Journal of Mechanical, Aerospace, Industrial, Mechatronic and Manufacturing Engineering, vol.9, no.7, pp.1230-1234, 2015 (Peer-Reviewed Journal)
- XIV. **Yapı ve LQR kontrol sisteminin birleşik optimum tasarımı**  
Bozca M., Mugan A.  
itü dergisi/d, vol.5, no.2, pp.89-97, 2006 (Peer-Reviewed Journal)

## Books & Book Chapters

- I. **MAKİNA ELEMANLARI Problemler**  
Bozca M.  
Metin Copy Plus Dijital Baskı ve Kopyalama Merkezi, İstanbul, 2023
- II. **MAKİNA ELEMANLARI Formüller ve Tablolar**  
Bozca M.  
Metin Copy Plus Dijital Baskı ve Kopyalama Merkezi, İstanbul, 2023
- III. **Optimisation of the geometric design parameters of a five speed gearbox for an automotive transmission**  
Bozca M.  
in: The Latest Methods in Construction Design, Vojtech Dynybyl, Ondrej Berka, Karel Petr, Frantisek Lopot, Martin Dub, Editor, Springer International Publishing, Zürich, pp.313-318, 2016
- IV. **Investigation of heat treatment effect on mechanical properties of high strength steel bolt material**  
Kınıt U., Bozca M., Palabıyık İ. M., Sevinç A., Büyükalgan U. H.  
in: Modern Methods in Construction Design, Ladislav Sevcik, Petr Lepsik, Michal Petru, Ivan Masin, Rudolf Martonka, Editor, Springer International Publishing, Zürich, pp.89-95, 2014

## Refereed Congress / Symposium Publications in Proceedings

- I. **Fatigue behaviour investigation of parabolic leaf spring used in heavy commercial vehicles**  
Ceyhanlı U. T., Bozca M.  
AAT'2016, International Conference on Advances in Automotive Technologies, İstanbul, Turkey, 11 - 14 October 2016, pp.10-20
- II. **Structural optimisation of engine cross member in light commercial vehicles**  
Höke Ö., Bozca M.  
AAT'2016, International Conference on Advances in Automotive Technologies, İstanbul, Turkey, 11 - 14 October 2016, pp.1-10
- III. **Theoretical investigation of point contact for ball bearings application**  
Bozca M.

ICMD'2016 57th International Conference of Machine Design Departments, Plzen, Czech Republic, 6 - 09 September 2016, pp.195-200

- IV. **Theoretical investigation of line contact for roller bearings application**  
Bozca M.  
ICMD'2016 57th International Conference of Machine Design Departments, Plzen, Czech Republic, 6 - 09 September 2016, pp.201-206
- V. **Optimisation of crankshaft dimensions to reduce equivalent stress and mass under dynamic loading condition**  
Bozca M.  
IMEF'2012 5th International Mechanical Engineering Forum,, Praha, Czech Republic, 21 - 23 June 2012, pp.217-222
- VI. **Kinematic analysis of a semi-rigid-elastic multi-body torsional vibration model of gears system**  
Bozca M.  
ICCC'2011 12th International Carpathian Control Conference, Ostrava, Czech Republic, 25 - 28 May 2011, pp.41-45
- VII. **Comparison of under lapped and critically lapped hydraulic spool valves performance**  
Bozca M.  
ICCC'2010 11th International Carpathian Control Conference, Eger, Hungary, 26 - 29 May 2010, pp.331-334
- VIII. **Birikimli hasar durumunda öngörülen ömür emniyet ve güvenilirliğe göre makina parçalarının tasarımı**  
Bozca M., Tahralı N.  
OTEKON' 2008 Otomotiv Teknolojileri Kongresi, Bursa, Turkey, 1 - 04 June 2008, pp.523-529
- IX. **Robust position control of a hydraulic servovalve-cylinder-mass system**  
Bozca M., Yalçın E.  
TMT' 2005 9th International Research/Expert Conference, Trends in The Development of Machinery and Associated Technology, Antalya, Turkey, 26 - 30 September 2005, pp.567-570
- X. **Structural optimization of beam system under stress constraint and dynamic behaviour analysis in frequency domain**  
Bozca M., Mugan A.  
TMT' 2005 9th International Research/Expert Conference, Trends in The Development of Machinery and Associated Technology, Antalya, Turkey, 26 - 30 September 2005, pp.917-920
- XI. **Integrated optimization of structures and LQR control systems for reduced order models**  
Bozca M., Cünedioğlu Y., Mugan A., Temeltaş H.  
IFAC' 2005 International Federation of Automatic Control, Praha, Czech Republic, 4 - 08 July 2005, pp.389-394
- XII. **Bir giriş sistemin gerilme kısıtı altında yapısal optimizasyonu ve frekans uzayında dinamik davranışının analizi**  
Bozca M., Mugan A.  
UMTS' 2005 Ulusal Makina Teorisi Sempozyumu, Kayseri, Turkey, 9 - 11 June 2005, pp.461-468
- XIII. **Model derecesi düşürülmüş yapının ve LQR kontrol sisteminin birleşik optimum tasarımı**  
Bozca M., Cünedioğlu Y., Mugan A., Temeltaş H.  
TOK' 2005 Otomatik Kontrol Ulusal Toplantısı, İstanbul, Turkey, 2 - 03 June 2005, pp.51-58
- XIV. **Integrated optimization of structures and LQR controller**  
Bozca M., Mugan A., Temeltaş H.  
ICCC' 2005 6th International Carpathian Control Conference, Miskolc, Hungary, 23 - 27 May 2005, pp.225-234
- XV. **Yolcu taşıma araçlarında yolcunun matematik modelinin Lagrange metodu ile oluşturulması ve kinematik analizi**  
Bozca M.  
OTEKON' 2004 Otomotiv Teknolojileri Kongresi, Bursa, Turkey, 21 - 23 June 2004, pp.377-386
- XVI. **Concurrent optimization of controlled structures for robustness**  
Bozca M., Mugan A.  
ICCC' 2004 5th International Carpathian Control Conference, Krakow, Poland, 25 - 28 May 2004, pp.35-44

## Supported Projects

Bozca M., Project Supported by Higher Education Institutions, ENTEGRE YAPI VE KONTROL SİSTEMİ TASARIM OPTİMİZASYONU, 2001 - 2001

## Memberships / Tasks in Scientific Organizations

TMMOB Chamber of Mechanical Engineers, Member, 1987 - Continues

## Scientific Refereeing

JOURNAL OF VIBRATION ENGINEERING & TECHNOLOGIES, SCI Journal, June 2024

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART D: JOURNAL OF AUTOMOBILE ENGINEERING, SCI Journal, June 2024

MECHANISM AND MACHINE THEORY, SCI Journal, December 2022

ADVANCES IN MECHANICAL ENGINEERING, SCI Journal, July 2022

ACTA MECHANICA, SCI Journal, July 2022

ADVANCES IN MECHANICAL ENGINEERING, SCI Journal, August 2021

APPLIED ACOUSTICS, SCI Journal, August 2021

Proceedings Of The Institution Of Mechanical Engineers Part D-Journal Of Automobile Engineering, SCI Journal, July 2021

APPLIED ACOUSTICS, SCI Journal, June 2021

Project Supported by Higher Education Institutions, BAP PhD, Akdeniz University, Turkey, December 2020

SHOCK AND VIBRATION, SCI Journal, August 2020

SHOCK AND VIBRATION, SCI Journal, July 2020

Sigma Journal of Engineering and Natural Sciences, Journal Indexed in ESCI, May 2020

Sigma Journal of Engineering and Natural Sciences, Journal Indexed in ESCI, March 2020

Proceedings Of The Institution Of Mechanical Engineers Part C-Journal Of Mechanical Engineering Science, SCI Journal, November 2019

Proceedings Of The Institution Of Mechanical Engineers Part D-Journal Of Automobile Engineering, SCI Journal, September 2019

Mathematical Problems in Engineering, SCI Journal, December 2018

TUBITAK Project, 1501 - Industry R & D Projects Support Program, TÜBİTAK, Turkey, December 2018

Proceeding of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, SCI Journal, June 2018

Journal of the Brazilian Society of Mechanical Sciences and Engineering, SCI Journal, April 2018

Proceeding of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, SCI Journal, November 2017

Proceeding of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, SCI Journal, November 2017

Vehicle System Dynamics, SCI Journal, June 2017

Journal of Zhejiang University SCIENCE A, SCI Journal, June 2016

TUBITAK Project, 1501 - Industry R & D Projects Support Program, TÜBİTAK, Turkey, December 2015

Shock and Vibration, SCI Journal, October 2015

TUBITAK Project, 1501 - Industry R & D Projects Support Program, TÜBİTAK, Turkey, December 2014

Mechanism and Machine Theory, SCI Journal, February 2011

Mechanism and Machine Theory, SCI Journal, December 2010

TUBITAK Project, 1501 - Industry R & D Projects Support Program, TÜBİTAK, Turkey, August 2010

Mechanism and Machine Theory, SCI Journal, November 2007

## Tasks In Event Organizations

Bozca M., ICCC'2024 25th International Carpathian Control Conference, Scientific Congress, Poland, Mayıs 2024  
Bozca M., ICCC'2023 24th International Carpathian Control Conference, Scientific Congress, Miskolc, Hungary, Haziran 2023  
Bozca M., International Scientific and Theoretical Conference " Modelling and Computer Engineering in Mechanical Engineering: Theory , Practice and Innovation", Scientific Congress, Lviv, Ukraine, Ekim 2022  
Bozca M., ICCC'2022 23rd International Carpathian Control Conference, Scientific Congress, Bucuresti, Romania, Haziran 2022  
Bozca M., IRMES'2022 10th International Conference on Research and Development of Mechanical Elements and Systems, Scientific Congress, Belgrade, Serbia, Mayıs 2022  
Bozca M., ICCC'2021 22nd International Carpathian Control Conference, Scientific Congress, Ostrava, Czech Republic, Haziran 2021  
Bozca M., ICCC'2020 21st International Carpathian Control Conference, Scientific Congress, Koshice, Slovakia, Ekim 2020  
Bozca M., ICCC'2019 20th International Carpathian Control Conference, Scientific Congress, Krakow, Poland, Mayıs 2019  
Bozca M., ICCC'2017 18th International Carpathian Control Conference, Scientific Congress, Brasov, Romania, Mayıs 2017  
Bozca M., AAT'2016 International Conference on Advances in Automotive Technologies, Scientific Congress, İstanbul, Turkey, Ekim 2016  
Bozca M., BAPT'2016 5th International Conference on Power Transmisson, Scientific Congress, Ohrid, Macedonia, Ekim 2016  
Bozca M., ICCC'2015 16th International Carpathian Control Conference, Scientific Congress, Nagykanizsa, Hungary, Mayıs 2015  
Bozca M., ICMD'2013 54th International Machine Design Department Conference, Scientific Congress, Liberec, Czech Republic, Eylül 2013  
Bozca M., ICCC'2011 12th International Carpathian Control Conference, Scientific Congress, Ostrava, Czech Republic, Mayıs 2011

## Mobility Activity

Bilateral Colloboration Agreement, Guest Researcher, Brno Yüksek Teknik Okulu, Czech Republic, 2015 - 2015  
Bilateral Colloboration Agreement, Guest Researcher, Hochschule Esslingen, Germany, 2012 - 2012  
Bilateral Colloboration Agreement, Guest Researcher, Universitaet Stuttgart, Germany, 2009 - 2009  
Bilateral Colloboration Agreement, Guest Researcher, Technische Universitaet München, Germany, 2006 - 2006

## Metrics

Publication: 43  
Citation (WoS): 92  
Citation (Scopus): 155  
H-Index (WoS): 3  
H-Index (Scopus): 4

## Awards

Ceyhanlı U. T., Bozca M., Experimental and numerical analysis of the static strength and fatigue life reliability of parabolic leaf springs in heavy commercial trucks, Yıldız Teknik Üniversitesi, January 2021  
Höke Ö., Bozca M., Topology Optimisation of Engine Cross Members for Lightweight Structure in Light Commercial

Vehicles, Yıldız Teknik Üniversitesi, January 2021

Bozca M., Transmission error model based optimisation of the geometric design parameters of an automotive transmission gearbox to reduce gear rattle noise, Tübitak-Ulakbim, September 2018

Bozca M., Heat treatment effects on the mechanical properties and microstructure of 30MnB4 steel bolts, Tübitak-Ulakbim, December 2014

Bozca M., Dikmen F., Optimisation of Geometric Parameters of Gears under Variable Loading Condition, Yıldız Teknik Üniversitesi, January 2012

Bozca M., Empirical model based optimisation of gearbox geometric design parameters to reduce rattle noise in an automotive transmission, Tübitak-Ulakbim, September 2010

Bozca M., Torsional vibration model based optimisation of gearbox geometric design parameters to reduce rattle noise in an automotive transmission, Tübitak-Ulakbim, September 2010

Bozca M., Influence of core hardness on bending strength of tooth in cylindrical gears under quasistatic loading conditions, Tübitak-Ulakbim, December 2008

Bozca M., Decoupled approach to integrated optimum design of structures and robust control systems, Tübitak-Ulakbim, August 2008

## **Non Academic Experience**

Business Establishment Private, Assan-Hanil-A.Ş.

Business Establishment Private, Ford-Otosan A.Ş.

Business Establishment Private, Cihan Elektronik San. A.Ş.