

## Prof. ABDULKERİM KAR

### Personal Information

**Email:** akar@ticaret.edu.tr

**Web:** <https://avesis.ticaret.edu.tr/akar>

### International Researcher IDs

ORCID: 0000-0002-8863-9348

Publons / Web Of Science ResearcherID: AAI-9935-2021

Yoksis Researcher ID: 8511

### Education Information

Doctorate, Massachusetts Institute of Technology, United States Of America 1977 - 1980

Postgraduate, Massachusetts Institute of Technology, United States Of America 1974 - 1976

Undergraduate, Istanbul Technical University, Makine Fakültesi, Makine Mühendisliği Bölümü, Turkey 1969 - 1973

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Fundamental Properties and Performance of Generic Passenger Rail Vehicles, Massachusetts Institute of Technology, 1980

### Academic and Administrative Experience

Istanbul Sehir University, 2018 - Continues

Marmara University, 1996 - 2018

Marmara University, 2013 - 2013

Marmara University, 2012 - 2013

Marmara University, 2011 - 2013

Marmara University, 2009 - 2011

Marmara University, 1996 - 2005

Marmara University, 1996 - 2000

### Courses

Machine Dynamics and Vibrations, Undergraduate, 2021 - 2022

Machine Elements, Undergraduate, 2021 - 2022

Dynamics, Undergraduate, 2021 - 2022, 1991 - 1992, 1990 - 1991

Statistics for Engineers, Undergraduate, 2021 - 2022, 2018 - 2019

Machine Design I, Undergraduate, 2021 - 2022, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2007 -

2008, 2005 - 2006, 2000 - 2001, 1994 - 1995, 1992 - 1993, 1991 - 1992, 1990 - 1991  
Principles of Design, Postgraduate, 2020 - 2021, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2012 - 2013, 2011 - 2012, 2007 - 2008, 2005 - 2006  
Machine Design II, Undergraduate, 2020 - 2021, 2018 - 2019, 2010 - 2011, 2007 - 2008, 2005 - 2006, 1994 - 1995, 1993 - 1994, 1991 - 1992, 1990 - 1991  
Manufacturing Processes, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016  
ÜRETİM SÜREÇLERİ, Postgraduate, 2018 - 2019  
Bilgisayar Becerileri, Undergraduate, 2018 - 2019  
INTRODUCTION TO MECHANICAL ENGINEERING, Undergraduate, 2018 - 2019, 2017 - 2018, 2015 - 2016, 1996 - 1997  
Materials Selection in Design, Doctorate, 2017 - 2018  
ADVANCED PROBABILITY, Postgraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2011 - 2012, 1993 - 1994  
Natural Gas Engineering, Undergraduate, 2016 - 2017  
Materials Selection in Design and Manufacturing, Doctorate, 2016 - 2017, 2015 - 2016  
LINEAR ALGEBRA, Undergraduate, 2014 - 2015, 1996 - 1997  
CALCULUS II, Undergraduate, 2014 - 2015, 1996 - 1997  
CALCULUS I, Undergraduate, 2014 - 2015, 1996 - 1997  
MANUFACTURING PROCESSES I, Undergraduate, 2012 - 2013, 2009 - 2010, 2005 - 2006, 1991 - 1992  
Introduction to Finite Element Analysis, Undergraduate, 2012 - 2013  
System Dynamics and Control, Undergraduate, 2012 - 2013  
ENGINEERING PROJECT I, Undergraduate, 2011 - 2012, 2010 - 2011, 2009 - 2010, 1994 - 1995, 1992 - 1993  
Automotive Engineering, Undergraduate, 2011 - 2012  
ENGINEERING PROJECT II, Undergraduate, 2011 - 2012, 2010 - 2011, 2009 - 2010, 1994 - 1995  
Machine Design Project, Undergraduate, 2010 - 2011  
MECHANICAL SYSTEM DESIGN, Undergraduate, 2009 - 2010, 2008 - 2009, 1994 - 1995, 1993 - 1994  
PROBABILISTIC MECHANICAL DESIGN, Doctorate, 2009 - 2010, 2007 - 2008  
RELIABILITY IN DESIGN, Postgraduate, 2008 - 2009, 2006 - 2007  
Modern Control, Doctorate, 2006 - 2007  
Machine Elements II, Undergraduate, 2006 - 2007  
Strength of Materials, Undergraduate, 2006 - 2007  
Machine Elements I, Undergraduate, 2006 - 2007  
MECHANICAL VIBRATIONS, Undergraduate, 2006 - 2007, 1991 - 1992  
HVAC Design, Undergraduate, 2005 - 2006  
Special topics in Design, Doctorate, 2005 - 2006  
Technical Drawing, Undergraduate, 1996 - 1997  
Advanced Vibrations, Postgraduate, 1994 - 1995, 1992 - 1993  
Optimization of Mechanical Systems, Postgraduate, 1991 - 1992  
Statics, Undergraduate, 1990 - 1991  
Advanced System Dynamics and Control, Postgraduate, 1990 - 1991  
Thermodynamics, Undergraduate, 1990 - 1991

## Books & Book Chapters

### I. Hybrid Energy Harvester (HEHs)-A Review

Güre N., KAR A., TAÇGIN E., ŞİŞMAN A., Tabatabaei M.

in: Energy Harvesting and Energy Efficiency: Technology, Methods and Applications, Nicu bizon etc, Editor, Springer International Publishing AG, pp.17-61, 2017

## **Refereed Congress / Symposium Publications in Proceedings**

- I. **An Axiomatic Design Approach to Multiobjective Optimization**  
Esin T., KAR A.  
ESDA 2010, 16 - 18 July 2010
- II. **Comparison of Efficient techniques for Fuzzy Multiobjective Design Optimization**  
Kentli A., KAR A.  
13th International Conference on Machine Design and Production, 3 - 05 September 2008
- III. **Measures for Information Content in Design**  
KAR A., Erdoğan K.  
ESDA 2002, 8 - 11 July 2002
- IV. **Axiomatic Design for the Development of Enterprise Level E-Commerce Strategies**  
Martin B., KAR A.  
2nd International Conference on Axiomatic Design at MIT, 10 - 11 June 2002
- V. **Linking Axiomatic Design and taguchi Methods via Information Content in Design**  
KAR A.  
First International Conference on Axiomatic Design at MIT, 21 - 23 June 2000