

## Assoc. Prof. MUSTAFA ÖZEL



### Personal Information

Office Phone: [+90 230 172 6532](tel:+902301726532)

Fax Phone: [+90 232 453 8366](tel:+902324538366)

Email: [mustafa.ozel@deu.edu.tr](mailto:mustafa.ozel@deu.edu.tr)

Web: <https://avesis.deu.edu.tr/mustafa.ozel>

Address: Dokuz Eylül University, Faculty of Engineering Department of Geophysical Engineering, Division of Mathematics Tınaztepe Campus, 35160, Buca – İZMİR / TURKEY



### International Researcher IDs

ORCID: 0000-0003-3771-8625

Publons / Web Of Science ResearcherID: JAN-8289-2023

Yoksis Researcher ID: 110656

### Education Information

Doctorate, Dokuz Eylül University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 1994 - 1999

Postgraduate, Dokuz Eylül University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), Turkey 1989 - 1993

Undergraduate, Dokuz Eylül University, Buca Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, Turkey 1984 - 1988

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Characterization of primal and dual optimality criteria in a circularization network flow problem, Dokuz Eylül University, Fen Bilimleri Enstitüsü, Matematik (Dr), 1999

Postgraduate, Kronecker products and solutions of the matrix differential equations, Dokuz Eylül University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), 1993

### Research Areas

Mathematics, Differential Equations, Linear and Multilinear Algebra: Matrix Theory, Mathematics Education, Natural Sciences

### Academic Titles / Tasks

Associate Professor, Dokuz Eylül University, Mühendislik Fakültesi, Jeofizik Mühendisliği Bölümü, 2014 - Continues

Research Assistant, Dokuz Eylul University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 1989 - 1993

## Courses

Matematik 1, Undergraduate, 2020 - 2021, 2019 - 2020

MATEMATİK III, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012

Matematik 3, Undergraduate, 2019 - 2020

MATEMATİK I, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011

Matematik 2, Undergraduate, 2019 - 2020

Kompleks Analiz, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012

MATEMATİK II, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011

M.SC. RESEARCH, Doctorate, 2016 - 2017

M.SC. THESIS, Postgraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012

MATRIX THEORY, Doctorate, 2014 - 2015, 2013 - 2014, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009

M.SC. RESEARCH, Postgraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012

CALCULUS I, Undergraduate, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011

CALCULUS II, Undergraduate, 2013 - 2014, 2012 - 2013, 2010 - 2011

## Advising Theses

Özel M., Schur tamamlayıcısı bağlamında blok matris eşitsizlikleri, Postgraduate, A.İLERİ(Student), 2015

Özel M., Matrislerin Hadamard çarpımlarını ve normlarını içeren eşitsizlikler, Postgraduate, D.KAYAALP(Student), 2015

Özel M., Matrisler için özdeğer ve iz eşitsizlikleri, Postgraduate, D.VAROL(Student), 2013

ÖZEL M., The methodology of Shahristânî in his tafsir named Mafâth al-Asrâr, Postgraduate, A.DEMİR(Student), 2012

ÖZEL M., The companions' commantary in Mawardi's book al-Nukat wa'l-Uyun, Postgraduate, İ.KURT(Student), 2011

ÖZEL M., Asbab al Nuzul in the commentary of Ibn al Jawzi, Postgraduate, Ö.HOCAOĞLU(Student), 2011

ÖZEL M., Isrâliyyât in The Commentary in Saâlibî's al Jawâhir al Hisân fî Tafsîr al Qur'ân, Postgraduate, E.DÖNER(Student), 2009

ÖZEL M., The evaluation of Israeli narrations about Hz. Musa in Salabî's commentary ?al-Kashf val Bayan?, Postgraduate, C.ORUÇ(Student), 2009

ÖZEL M., Abd al-Majid b. al-Shaikh Nasuh al-İsrail and the edition criticism and introduction of his commentary on the Qur'an ?Al Huda Va'l-Falah?, Postgraduate, H.ULUĞ(Student), 2009

ÖZEL M., The Quranic sciences in Tashil li Ulumi't-tanzîl of Ibn Cuzayy, Postgraduate, N.DENİZER(Student), 2009

ÖZEL M., The rivayah of tafsir about Neseî's Mederiku't-Tenzil, Postgraduate, A.DİNÇ(Student), 2007

ÖZEL M., Muhammad Abdullah Draz and his conception of Koran, Postgraduate, F.COŞKUNSU(Student), 2006

ÖZEL M., The term of `abd in the Holy Qur'an, Postgraduate, E.YENTÜRK(Student), 2004

## Jury Memberships

Doctorate, Doctorate, Dokuz Eylül Üniversitesi, January, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, June, 2019

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, January, 2019

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, June, 2018

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, January, 2018

Post Graduate, Post Graduate, Ege Üniversitesi, November, 2017

Post Graduate, Post Graduate, Dokuz Eylül Üniversitesi, October, 2017

Post Graduate, Post Graduate, Ege Üniversitesi, July, 2017

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, June, 2017

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, January, 2017

Post Graduate, Post Graduate, Manisa Celal Bayar Üniversitesi, June, 2016

Doctorate, Doctorate, Dokuz Eylül Üniversitesi, June, 2016

Doctorate, Doctorate, Manisa Celal Bayar Üniversitesi, March, 2016

Post Graduate, Post Graduate, Dokuz Eylül Üniversitesi, January, 2016

Post Graduate, Post Graduate, Dokuz Eylül Üniversitesi, July, 2015

Post Graduate, Post Graduate, Dokuz Eylül Üniversitesi, February, 2015

Post Graduate, Post Graduate, Dokuz Eylül Üniversitesi, August, 2013

Post Graduate, Post Graduate, Dokuz Eylül Üniversitesi, May, 2013

Post Graduate, Post Graduate, Ege Üniversitesi, January, 2010

Post Graduate, Post Graduate, Süleyman Demirel Üniversitesi, January, 2010

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

- I. **On the lower bounds for the minimum eigenvalue of the Hadamard product of an M-matrix and its inverse**  
Özel M., Varol D.  
GEORGIAN MATHEMATICAL JOURNAL, vol.28, no.3, pp.439-443, 2021 (SCI-Expanded)
- II. **SOME RESULTS ON BLOCK KRONECKER AND BLOCK HADAMARD PRODUCT OF MATRICES**  
Özel M.  
JOURNAL OF MATHEMATICAL INEQUALITIES, vol.15, no.2, pp.461-466, 2021 (SCI-Expanded)
- III. **Morgan-Voyce polynomial approach for ordinary linear delay integro-differential equations with variable delays and variable bounds**  
Özel M., Tarakçı M., Sezer M.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.50, no.5, pp.1434-1447, 2021 (SCI-Expanded)
- IV. **Solution of nonlinear ordinary differential equations with quadratic and cubic terms by Morgan-Voyce matrix-collocation method**  
Tarakçı M., Özel M., Sezer M.  
TURKISH JOURNAL OF MATHEMATICS, vol.44, no.3, pp.906-918, 2020 (SCI-Expanded)
- V. **A numerical approach for a nonhomogeneous differential equation with variable delays**  
Özel M., Tarakçı M., Sezer M.  
MATHEMATICAL SCIENCES, vol.12, no.2, pp.145-155, 2018 (SCI-Expanded)
- VI. **Trace Inequalities for a Block Hadamard Product**  
Pehlivan S., ÖZEL M., Ozel C.  
FILOMAT, vol.32, no.1, pp.285-292, 2018 (SCI-Expanded)
- VII. **Trace and determinant inequalities for Hadamard Products**  
Özel M.  
International Journal of the Physical Sciences, vol.7, no.1, pp.1-4, 2012 (SCI-Expanded)
- VIII. **A NEW DECOMPOSITION METHOD FOR SOLVING SYSTEM OF NONLINEAR EQUATIONS**  
Ozel M.

- MATHEMATICAL & COMPUTATIONAL APPLICATIONS, vol.15, no.1, pp.89-95, 2010 (SCI-Expanded)
- IX. **Some consequences on the planar three-index transportation problem**  
Oezel M.  
INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, vol.87, no.10, pp.2325-2331, 2010 (SCI-Expanded)
- X. **Effect of some heating parameters on volume expansion of borax**  
KAHRAMAN B., Ozel M., Ozguven O. F., Batar T., Erdogan N., Dicle Z., Safak S., Kurt S.  
MINERALS & METALLURGICAL PROCESSING, vol.25, no.3, pp.169-174, 2008 (SCI-Expanded)
- XI. **Some new results on the algebraic characterizations of an equality constrained optimization problem equivalent to the transportation problem**  
Safak S., Ozel M., Bulut H., Bulut S. A.  
INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, vol.84, no.7, pp.1021-1026, 2007 (SCI-Expanded)
- XII. **Further results on the algebraic characterizations of a minimum cost network flow problem equivalent to the transportation problem**  
Ozel M., Safak S., Bulut H.  
INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, vol.82, no.5, pp.609-616, 2005 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Norm Inequalities on Fan Product of Matrices**  
ÖZEL M.  
GLOBAL JOURNAL OF PURE AND APPLIED MATHEMATICS, vol.15, no.1, pp.1-5, 2019 (Peer-Reviewed Journal)
- II. **MORGAN-VOYCE MATRIX METHOD FOR GENERALIZED FUNCTIONAL INTEGRO-DIFFERENTIAL EQUATIONS OF VOLTERRA-TYPE**  
ÖZEL M., KÜRKÇÜ Ö. K., SEZER M.  
JOURNAL OF SCIENCE AND ARTS, no.2, pp.295-310, 2019 (ESCI)
- III. **Inequalities involving Hadamard products of centrosymmetric matrices**  
ÖZEL M., Kayaalp D.  
New Trends in Mathematical Science, vol.4, no.6, pp.119-126, 2018 (Peer-Reviewed Journal)
- IV. **Several Schur complement inequalities on block Hadamard product**  
ÖZEL M., İleri A.  
New Trends in Mathematical Science, vol.4, no.5, pp.242-247, 2017 (Peer-Reviewed Journal)
- V. **Schur Complements of Block Kronecker Products**  
ÖZEL M.  
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.19, no.57, pp.845-850, 2017 (Peer-Reviewed Journal)
- VI. **An integrated, problem-based learning material: The "satellite" module**  
Selçuk G. S., Emiroglu H. B., Tarakçı M., Özel M.  
Asia-Pacific Forum on Science Learning and Teaching, vol.12, no.1, 2011 (Scopus)
- VII. **An Integrated Problem Based Learning Material Satellite Module**  
Sezgin Selçuk G., Boyacıoğlu Emiroğlu H., Tarakçı M., Özel M.  
Asia-Pacific Forum on Science Learning and Teaching, vol.1, no.12, pp.1, 2011 (Scopus)
- VIII. **Modüler Tabanlı Eğitim Programında Matematik ve Jeofizik Bütünleşmesi**  
ÖZEL M., TİMUR E., ÖZYALIN Ş., DANIŞMAN M. A.  
Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, vol.7, no.2, pp.101-112, 2005 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Some inequalities and Schur complements of block Hadamard product**

- Özel M.  
Conference on Matrix Analysis and Its Applications, Coimbra, Portugal, 7 - 11 September 2015, pp.187
- II. **Bounds for the spectral radius of a positive centrosymmetric matrices**  
Özel M.  
4th International Conference on Matrix Analysis and Applications, Konya, Turkey, 2 - 05 July 2013, pp.72
- III. **On the lower bounds for the minimum eigenvalue of the Hadamard product of an M-matrix and its inverse M-matrix**  
Özel M.  
International Conference on Applied Analysis and Algebra, İstanbul, Turkey, 20 - 24 June 2012, pp.72-73
- IV. **Seismicity parameters of NW Anatolia: Key Study for Marmara Region**  
Özel M.  
European Seismological Commission 32nd General Assembly, Montpellier, France, 6 - 10 September 2010, pp.258-259
- V. **A mathematical approach for borax mineral in thermal process**  
Özel M.  
6. Endüstriyel Hammaddeler Sempozyumu, İzmir, Turkey, 1 - 03 February 2007, pp.334-340
- VI. **Mühendislik Eğitiminde Probleme Dayalı Öğrenim Senaryolarında Bilginin Tümüleştirilmesi**  
ÖZEL M., TARAKÇI M., PAMUKÇU O., SEZGİN SELÇUK G., BOYACIOĞLU EMİROĞLU H., GÜZELİŞ C.  
II. Ulusal Mühendislik Kongresi, Zonguldak, Turkey, 11 - 13 May 2006, pp.153-160
- VII. **Comparison of Two Scenario Examples For a Freshman Year Module in Electrical and Electronics Engineering Program**  
GÜRKAN KUNTALP D., KUNTALP M., KILINÇ S., ÖNAY A. B., ÖZEL M., AKGÜNGÖR K., GÜZELİŞ C.  
New Information Technologies in Education, Turkey, 20 - 22 October 2004
- VIII. **Özdirenç Yönteminde Yanal Kaydırma Verilerinin Görüntü Kuramı ve En Küçük Kareler Yöntemi ile Modellenmesi**  
ÖZYALIN Ş., AKGÜN M., ÖZEL M.  
Türkiye 15. Jeofizik Kongresi ve Sergisi, İzmir, Turkey, 20 October 2003, pp.130
- IX. **Özdirenç yönteminde yanal kaydırma verilerinin görüntü kuramı ve en küçük kareler yöntemi ile modellenmesi**  
Özel M.  
Türkiye 15. Jeofizik Kurultayı ve Sergisi, İzmir, Turkey, 20 - 24 October 2003, pp.130

## Scientific Refereeing

BULLETIN OF THE IRANIAN MATHEMATICAL SOCIETY, SCI Journal, December 2020

ENGINEERING COMPUTATIONS : INTERNATIONAL JOURNAL FOR COMPUTER-AIDED ENGINEERING AND SOFTWARE,  
Journal Indexed in SCI-E, December 2019

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, November 2018

MALAYSIAN JOURNAL OF MATHEMATICAL SCIENCES, Other Indexed Journal, March 2018

Celal Bayar Üniversitesi Fen Bilimleri Dergisi, National Scientific Refreed Journal, April 2017

Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, National Scientific Refreed Journal,  
November 2016

ABSTRACT AND APPLIED ANALYSIS, Other Indexed Journal, January 2014

LINEAR ALGEBRA AND ITS APPLICATIONS, Journal Indexed in SCI-E, September 2012

JOURNAL OF APPLIED MATHEMATICS, Journal Indexed in SCI-E, March 2012

INTERNATIONAL JOURNAL OF PHYSICAL SCIENCES, Journal Indexed in SCI-E, December 2011

COMPUTERS AND MATHEMATICS WITH APPLICATIONS, Journal Indexed in SCI-E, July 2011

Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, National Scientific Refreed Journal, April  
2009

Dokuz Eylül Üniversitesi Mühendislik Fakültesi Fen ve Mühendislik Dergisi, National Scientific Refreed Journal, April

2009

## **Metrics**

Publication: 37

Citation (WoS): 24

Citation (Scopus): 18

H-Index (WoS): 3

H-Index (Scopus): 2