

## Asst. Prof. Elif DEMİR

### Personal Information

**Office Phone:** [+90 212 383 4323](tel:+902123834323)

**Email:** [edbilek@yildiz.edu.tr](mailto:edbilek@yildiz.edu.tr)

**Other Email:** [edemirbilek@yahoo.com](mailto:edemirbilek@yahoo.com)

**Web:** <http://avesis.yildiz.edu.tr/edbilek/>

**Address:** Yıldız Teknik Üniversitesi, Davutpaşa Kampüsü, Fen Edebiyat Fakültesi, Matematik Bölümü, E Blok, E 2026

### International Researcher IDs

ScholarID: qCk04uOAAAAJ

ORCID: 0000-0001-5973-9115

ScopusID: 55616662000

Yoksis Researcher ID: 179210

### Education Information

Doctorate, Yıldız Technical University, Fen Edebiyat Fakültesi, Matematik, Turkey 2006 - 2012

Postgraduate, Yıldız Technical University, Fen Edebiyat Fakültesi, Matematik, Turkey 2004 - 2006

Undergraduate, Yıldız Technical University, Fen Edebiyat Fakültesi, Matematik, Turkey 2000 - 2004

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, Sesquitransitive and Localizing Operator Algebras On Banach Spaces, Yıldız Technical University, Faculty of Arts & Science, Department of Mathematics, 2012

Postgraduate, On Invariant Subspace Problem in Banach Spaces and Banach Lattices, Yıldız Technical University, Faculty of Arts & Science, Department of Mathematics, 2006

### Research Areas

Mathematics, Functional Analysis, Natural Sciences

### Academic Titles / Tasks

Assistant Professor, Yıldız Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2014 - Continues

Research Assistant, Yıldız Technical University, Faculty Of Arts & Science, Department Of Mathematics, 2005 - 2014

### Academic and Administrative Experience

Deputy Head of Department, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2023 - Continues

Bölüm Tanıtım ve Mezunlarla İlişkiler Komisyonu Başkanı, Yildiz Technical University, Faculty of Arts & Science, Department of Mathemeatics, 2018 - Continues

## Courses

Real Analysis, Postgraduate, 2021 - 2022

Infinite Dimensional Analysis, Postgraduate, 2020 - 2021

Linear Operators 1, Postgraduate, 2017 - 2018

Mathematical Analysis 4, Undergraduate, 2017 - 2018

Mathematics 2, Undergraduate, 2016 - 2017

Mathematical Analysis 3, Undergraduate, 2017 - 2018

Differential Equations, Undergraduate, 2016 - 2017

## Advising Theses

Demir E., ON SIR MODELS WITH FRACTIONAL DERIVATIVES , Postgraduate, C.VURAL(Student), Continues

Demir E., Unbounded convergence structure properties in riesz spaces, Postgraduate, E.AYDOĞAN(Student), 2023

Demir E., Bazı uzaylardaki operatörlerin sayısal bölgeleri, Postgraduate, B.ŞERAN(Student), 2023

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

### I. On 2-absorbing z-filters

Bilgin Z., Demir E., Oral H. K.

BULLETIN MATHEMATIQUE DE LA SOCIETE DES SCIENCES MATHEMATIQUES DE ROUMANIE, vol.61, no.2, pp.147-155, 2018 (SCI-Expanded)

## Articles Published in Other Journals

### I. An SIR Model of Influenza with the Effects of Treatment and Vaccination

Demir E., Vural C.

Journal of mathematical sciences and modelling (Online), vol.7, no.2, pp.51-59, 2024 (Peer-Reviewed Journal)

### II. On Unbounded Convergence Properties in $C_p(X, [0, 1])$

Demir E.

International Mathematical Forum, vol.19, no.1, pp.1-7, 2024 (Peer-Reviewed Journal)

### III. On Unbounded Order Convergence of Operator Nets

Demir E., Aydoğan E.

International Mathematical Forum, vol.18, no.2, pp.83-88, 2023 (Peer-Reviewed Journal)

### IV. On unbounded order weakly demicompact operators

Gök Ö., Demir E.

International Mathematical Forum, vol.17, no.2, pp.61-66, 2022 (Peer-Reviewed Journal)

### V. On strictly transitive operator algebras

Demir E.

International Journal of Mathematical Analysis, vol.6, no.45-48, pp.2257-2264, 2012 (Scopus)

### VI. On Transitive and Quasi-Localizing Operator Algebras

Demir E.

International Journal of Contemporary Mathematical Sciences, vol.7, no.21, pp.1043-1050, 2011 (Peer-Reviewed)

Journal)

VII. **On Transitive and Localizing Operator Algebras**

Gök Ö., Demir E.

International Mathematical Forum, vol.6, no.57, pp.2955-2962, 2011 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **A Model of Covid-19 Dynamics Effected by Vaccination**  
Demir E., Vural C.  
Mathematical Modeling with Modern Applications M3A\_24, İstanbul, Turkey, 4 - 06 June 2024
- II. **Dynamics of influenza with the rates of vaccination and treatment**  
Vural C., Demir E.  
Algebraic and geometric methods of analysis (AGMA), Kyiv, Ukraine, 27 - 30 May 2024, pp.128
- III. **COVID-19 DYNAMICS THAT CHANGES WITH THE USAGE OF MASK**  
Demir E., Vural C.  
İZMİR MATHEMATICS DAYS - V, İstanbul, Turkey, 27 September - 29 December 2023, pp.39
- IV. **Unbounded Convergence in  $C_p(X, [0, 1])$**   
Demir E.  
2nd International E-Conference on Mathematical and Statistical Science: A Selcuk Meeting, Konya, Turkey, 5 - 07 June 2023, pp.82
- V. **Unbounded Order Convergence Properties of Operator Nets**  
Demir E., Aydoğan E.  
2nd International E-Conference on Mathematical and Statistical Science: A Selcuk Meeting, 5 - 07 June 2023, pp.49
- VI. **ON SIR MODELS WITH FRACTIONAL DERIVATIVES**  
Demir E., Vural C.  
2ND INTERNATIONAL E CONFERENCE ON MATHEMATICAL AND STATISTICAL SCIENCES: A SELCUK MEETING, Konya, Turkey, 5 - 07 June 2023, pp.222
- VII. **Numerical Ranges of Operators on Some Spaces**  
Demir E., Şeran B.  
8th International IFS and Contemporary Mathematics Conference, İstanbul, Turkey, 16 - 19 June 2022, pp.102
- VIII. **Unbounded Convergence Structure Properties in Riesz Spaces**  
Demir E., Aydoğan E.  
5th International Online Conference on Mathematics , İstanbul, Turkey, 1 - 03 December 2021, pp.136
- IX. **Transitive Operator Algebras and Hyperinvariant Subspaces**  
DEMİR E.  
13th Algebraic Hyperstructures and its Applications Conference, İstanbul, Turkey, 24 July 2017, pp.50-51
- X. **Z-süzgeçlerin Bir Karakterizasyonu**  
Bilgin Z., DEMİR E.  
11. Ankara Matematik Günleri, 01 May 2016
- XI. **On Duals of Strictly Transitive Operator Algebras on Banach Spaces**  
DEMİR E., ALBAYRAK P.  
International Conference on Applied Analysis and Mathematical Modelling (ICAAMM 2015), İstanbul, Turkey, 8 - 12 June 2015
- XII. **On Transitive Operator Algebras**  
Demir E.  
International Conference On Applied Analysis and Algebra, 01 July 2011

## Metrics

Publication: 20  
Citation (WoS): 2  
Citation (Scopus): 3  
H-Index (WoS): 1  
H-Index (Scopus): 1

## **Scholarships**

Yurt İçi Lisansüstü Burs Programı, TUBITAK, 2005 - 2010

## **Non Academic Experience**

Pertevniyal Eğitim Vakfı Dersanesi