

## Assoc. Prof. Seda KIZILBUDAK ÇALIŞKAN

### Personal Information

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### International Researcher IDs

ScholarID: mlFa00IAAAAJ

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Publons / Web Of Science ResearcherID: V-9389-2017

ScopusID: 5520293700

Yoksis Researcher ID: 53504

### Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Matematik , Turkey 1995 - 1999

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Matematik, Turkey 1993 - 1995

Undergraduate, Yildiz Technical University, Faculty Of Arts & Science, Matematik , Turkey 1989 - 1993

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Dördüncü Mertebeden Diferansiyel Operatör Denklemin Green Fonksiyonu ve Özdeğerlerinin Asimtotik İfadesi , Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Matematik, 1997

Postgraduate, Adi Diferansiyel Denklemler İçin Green Fonksiyonları, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Matematik, 1992

### Research Areas

Mathematics, Differential Equations, Fourier Analysis, General Mathematics, Natural Sciences

### Academic Titles / Tasks

Associate Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2017 - Continues

Assistant Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2007 - 2017

Lecturer PhD, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2000 - 2007

Research Assistant PhD, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 1999 - 2000

Research Assistant, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 1998 - 1999  
Research Assistant, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Matematik, 1995 - 1998

## Academic and Administrative Experience

Deputy Head of Department, Yildiz Technical University, 2023 - 2026

## Courses

Diferansiyel Denklemler için Green Fonksiyonları, Postgraduate, 2020 - 2021  
Matematik Analiz 1, Undergraduate, 2020 - 2021, 2019 - 2020  
Operatör teori I, Postgraduate, 2019 - 2020  
HARMONİK ANALİZ, Postgraduate, 2018 - 2019  
DİFERANSİYEL DENKLEMLER İÇİN GREEN FONKSİYONLARI, Postgraduate, 2017 - 2018  
Diferansiyel Operatörlerin Spektral Teorisi, Postgraduate, 2016 - 2017  
Matematik Analiz IV, Undergraduate, 2016 - 2017

## Advising Theses

Kızılbudak Çalışkan S., Ters Özdeğer Problemi, Postgraduate, A.KILIÇ(Student), 2023  
Kızılbudak Çalışkan S., İkinci mertebeden bir operatör denklemin düzenli izi, Postgraduate, L.ÖZEN(Student), 2018  
Kızılbudak Çalışkan S., Sturm-Liouville Problemlerinin Spektral Analizi, Postgraduate, Ş.OYNAR(Student), 2017  
Kızılbudak Çalışkan S., Geç Kalan Argümentli Sturm-Liouville Operatörünün Spektral Analizi, Postgraduate, S.Tosuncu(Student), 2017

## Jury Memberships

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Haliç Üniversitesi, December, 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  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Haliç Üniversitesi, September, 2019  
Appointment to Academic Staff-Assistant Professorship, Doktor öğretim üyesi atanma, Kırklareli Üniversitesi, July, 2018  
Appointment to Academic Staff-Assistant Professorship, Doktor öğretim üyesi atanma, Maltepe Üniversitesi, July, 2018  
Doctorate, Doktora Tez Savunma Jürisi (Haziran 2017), Yıldız Teknik Üniversitesi, June, 2017

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

- I. **EIGENVALUES AND EIGENFUNCTIONS OF DISCONTINUOUS TWO-POINT BOUNDARY VALUE PROBLEMS WITH AN EIGENPARAMETER IN THE BOUNDARY CONDITION**  
Caliskan S., BAYRAMOV A., Oer Z., USLU S.  
ROCKY MOUNTAIN JOURNAL OF MATHEMATICS, vol.43, no.6, pp.1871-1892, 2013 (SCI-Expanded)
- II. **The second regularized trace of differential operator equation with the semi-periodic boundary conditions**  
Bayramov A., Caliskan S., Akgun F.

MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.35, no.18, pp.2185-2197, 2012 (SCI-Expanded)

III. **Computation of eigenvalues and eigenfunctions of a discontinuous boundary value problem with retarded argument**

Bayramov A., Uslu S., Caliskan S.

APPLIED MATHEMATICS AND COMPUTATION, vol.191, pp.592-600, 2007 (SCI-Expanded)

### Articles Published in Other Journals

I. **THE REGULARIZED TRACE FORMULA OF A SECOND ORDER DIFFERENTIAL EQUATION GIVEN WITH ANTI-PERIODIC BOUNDARY CONDITIONS**

Kızılbudak Çalışkan S., Özen L.

Cumhuriyet Science Journal, vol.40, no.4, pp.784-791, 2019 (Peer-Reviewed Journal)

II. **On the regularized trace of a fourth order regular differential equation.**

Kızılbudak Çalışkan S., Bayramov A., Özçubukcu Z., Uslu S.

International journal of contemporary mathematical sciences, vol.1, pp.245-254, 2006 (Peer-Reviewed Journal)

III. **On The Trace Formula Of Second Order Differential Equation Given With Non Seperable Boundary Conditions**

Kızılbudak Çalışkan S., Bayramov A., Uslu S.

Sigma Mühendislik ve Fen Bilimleri Dergisi, no.4, pp.57-64, 2005 (ESCI)

IV. **On the Asymptotic Expression Of The Number Of Eigenvalues Of Differential Equation With The Operator Coefficient**

Kızılbudak Çalışkan S.

sigma mühendislik ve fen bilimleri dergisi, no.3, pp.28-33, 2004 (ESCI)

V. **On The Green Function Of Fourth Order Differential Equation With Two Term Given In Semi-Axis**

Kızılbudak Çalışkan S., Bayramoğlu M.

International mathematical journal, vol.3, pp.1177-1192, 2003 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

I. **Computing the Regular Trace of the Scalar Sturm-Liouville Equation with Anti-Periodic Boundary Conditions in a Finite Interval**

Kızılbudak Çalışkan S., Çeliker F.

7th International Conference of Mathematical Sciences, İstanbul, Turkey, 5 - 09 July 2023, pp.43

II. **Time-Ordered Hyperbolic Evolution Systems**

Bakşi Ö., Gül E., Kızılbudak Çalışkan S., Sezer Y., Karayel S., Hansen A. K., Gill T. L.

2nd International Workshop: Constructive Mathematical Analysis, Konya, Turkey, 6 - 08 July 2023, pp.10

III. **The Inverse Sturm-Liouville Problem With One Of The Boundary Conditions Including Eigenvalue**

Kızılbudak Çalışkan S., Kılıç A.

International Hybrid Conference on Mathematical Development and Applications (ICOMAA-23), İstanbul, Turkey, 10 - 13 May 2023, pp.56

IV. **ON ASYMPTOTIC OF THE SUM OF THE FOURTH DEGREES OF THE NEGATIVE SPECTRUM OF A SINGULAR STURM-LIOUVILLE OPERATOR**

Kızılbudak Çalışkan S., Bayramoglu M., Bayramov A.

AZERBAIJAN CUMHURİYETİ BİLİM VE EĞİTİM BAKANLIĞI BAKÜ DEVLET ÜNİVERSİTESİ AKADEMİK İBRAHİM İBRAHİMOV doğumunun 110. yıl dönümüne ithafen FONKSİYONLAR TEORİSİ, FONKSİYONEL ANALİZ VE UYGULAMALARI HAKKINDA CUMHURİYET BİLİMSEL KONGRESİ, Baku, Azerbaijan, 28 - 29 November 2022, pp.453-454

V. **ON THE REGULARIZED TRACE FORMULA OF A DISCONTINUOUS ONE-POINT BOUNDARY VALUE PROBLEM WITH RETARDED ARGUMENT**

Kızılıbudak Çalışkan S., Saçlı Y.

9th International Congress on Fundamental and Applied Sciences, İstanbul, Turkey, 28 - 30 June 2022, vol.1, no.1112, pp.167

- VI. **ON SPECTRAL PROPERTIES AND FUNDAMENTAL SOLUTIONS OF A DISCONTINUOUS ONE-POINT BOUNDARY VALUE PROBLEM**  
Kızılıbudak Çalışkan S., Oynar Ş.  
2nd International Conference on Mathematical Advances and Applications, İstanbul, Turkey, 3 - 05 May 2019, pp.98
- VII. **ON THE REGULARIZED TRACE FORMULA OF DIFFERENTIAL EQUATION GIVEN WITH ANTI-PERIODIC BOUNDARY CONDITIONS**  
KIZILBUDAK ÇALIŞKAN S.  
"European Women in Mathematics General Meeting 2018 Celebrating 30 Years of EWM", Graz, Austria, 03 September 2018, pp.26
- VIII. **GEÇ KALAN ARGÜMANLI BİR SINIR DEĞER PROBLEMİNİN ÖZ DEĞERLERİNİN ve ÖZ FONKSİYONLARININ ASİMTOTİK İFADELERİ**  
KIZILBUDAK ÇALIŞKAN S., GICA S.  
30.Ulusal Matematik Sempozyumu, Ankara, Turkey, 06 September 2017, pp.40
- IX. **Asymptotic formulas for eigenvalues and eigenfunctions of a discontinuous BVP with lag argument and spectral parameter in the boundary condition**  
KIZILBUDAK ÇALIŞKAN S.  
3rd International Conference on Pure and Applied Sciences, Dubai, United Arab Emirates, 02 February 2017, pp.16
- X. **Spectral properties of eigenvalues and eigenfunctions of a discontinuous boundary value problem with retarded argument**  
KIZILBUDAK ÇALIŞKAN S., USLU S.  
VI. Congress of Mathematicians of Macedonia, Ohrid, Macedonia, 15 June 2016, pp.61
- XI. **On the regularized trace of differential operator equation**  
KIZILBUDAK ÇALIŞKAN S.  
Operator theory, analysis and mathematical physics, Barselona, Spain, 11 June 2012, pp.17
- XII. **On the regularized trace formula for regular Sturm- Liouville problem**  
KIZILBUDAK ÇALIŞKAN S., USLU S.  
International Symposium on Analysis and Theory of Functions, İstanbul, Turkey, 24 August 2009, pp.40
- XIII. **On spectral property of a discontinuous two-point boundary value problems with a spectral parameter in the boundary condition**  
KIZILBUDAK ÇALIŞKAN S., Bayramov A., ÖZÇUBUKCU Z., USLU S.  
5th International Conference of Applied Mathematics and Computing, Plovdiv, Bulgaria, 12 August 2008, pp.64
- XIV. **On asymptotic of eigenvalues and eigenfunctions of a discontinuous boundary value problem with lag argument and the eigenparameter in the boundary conditions**  
KIZILBUDAK ÇALIŞKAN S., Bayramov A.  
II. Türk Dünyası Matematik Sempozyumu, Sakarya, Turkey, 04 July 2007, pp.15-16
- XV. **Dördüncü Mertebeden Operatör Katsayılı Bir DiferansiyelDenklemin Özdeğerlerinin Asimtotik Davranısı**  
KIZILBUDAK ÇALIŞKAN S., Bayramoğlu M.  
16. Ulusal Matematik Sempozyumu, Van, Turkey, 10 September 2003, pp.12
- XVI. **On the resolvent of a differential equation with normal operator coefficient given in semi-axis**  
KIZILBUDAK ÇALIŞKAN S., Bayramoğlu M.  
15. Ulusal Matematik Sempozyumu, Mersin, Turkey, 04 September 2002, pp.36

## Scientific Refereeing

Geç kalan argumentli yeni bir süreksiz Sturm-Liouville probleminin çözümlerinin asimtotik davranışı, SCI Journal,

January 2014

## **Scientific Research / Working Group Memberships**

Howard Yıldız Analysis Research Group, Yıldız Technical University, Türkiye, <https://avesis.yildiz.edu.tr/arastirma-grubu/arg>, 2021 - Continues

## **Metrics**

Publication: 24

Citation (WoS): 28

Citation (Scopus): 32

H-Index (WoS): 2

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