Assoc. Prof. Yonca SEZER



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International Researcher IDs

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Education Information

Doctorate, Yildiz Technical
University, Turkey 2002 - 2007
Postgraduate, Yildiz Technical
University, Faculty Of Arts & Science,
Department Of Mathemeatics,
Turkey 2000 - 2002
Undergraduate, Marmara University,
Faculty Of Arts And Sciences,
Mathematics, Turkey 1995 - 1999

Research Areas

Mathematics, Functional Analysis, Natural Sciences

Academic Titles / Tasks

Associate Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2000 - Continues

Academic and Administrative Experience

Vice Dean, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2023 - Continues
Deputy Head of Department, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2022 - 2023
Bölüm Stratejik Plan Komisyonu Başkanı, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2017 - 2020

Bölüm Kalite Komisyonu Üyesi, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2014 - 2017

Courses

Diferansiyel Denklemler 2, Undergraduate, 2022 - 2023

SEMINER, Doctorate, 2022 - 2023

Differential Equations, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

TASARIMCILAR İÇİN MATEMATİK, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

Mathematics 2, Undergraduate, 2021 - 2022, 2020 - 2021

MATEMATİK 1, Undergraduate, 2021 - 2022, 2018 - 2019

Hilbert Uzayları, Postgraduate, 2020 - 2021

Hilbert Space, Postgraduate, 2020 - 2021

Mathematics For Designers, Undergraduate, 2019 - 2020, 2018 - 2019

Lineer Operatörler 2, Postgraduate, 2018 - 2019

DİFERANSİYEL DENKLEMLER, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017

LİNEER CEBİR, Undergraduate, 2019 - 2020

İleri Lineer Operatörler 1, Postgraduate, 2018 - 2019

MATEMATIK 2, Undergraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016

Advising Theses

Sezer Y., Kesirli Diferansiyel Denklemler İçin Nümerik Metotlar, Postgraduate, M.ERTÜRK(Student), 2023

Sezer Y., Kesirli Diferansiyel Denklemlere Genel Bakış, Postgraduate, B.BAĞLIK(Student), 2023

Sezer Y., KARAR ALMA SÜREÇLERİNDE BÜYÜK VERİ KULLANIMI VE MATEMATİKSEL MODELLEME, Postgraduate, B.AKDAŞ(Student), 2022

Published journal articles indexed by SCI, SSCI, and AHCI

I. The Second Regularized Trace of Even Order Differential Operators with Operator Coefficient BAKŞİ Ö., SEZER Y.

FILOMAT, vol.36, no.4, pp.1069-1080, 2022 (SCI-Expanded)

II. On Higher Regularized Traces of a Differential Operator with Bounded Operator Coefficient Given in a Finite Interval

SEZER Y., BAKŞİ Ö., KARAYEL S.

MEDITERRANEAN JOURNAL OF MATHEMATICS, vol.18, no.3, 2021 (SCI-Expanded)

III. Second regularized trace of a differential operator with second order unbounded operator coefficient given in a finite interval

Bakşi Ö., Karayel S., Sezer Y.

Operators and Matrices, vol.11, pp.735-747, 2017 (SCI-Expanded)

IV. THE ASYMPTOTIC FORMULAS FOR THE SUM OF SQUARES OF NEGATIVE EIGENVALUES OF A SINGULAR STURM-LIOUVILLE OPERATOR

Sezer Y.

UNIVERSITY POLITEHNICA OF BUCHAREST SCIENTIFIC BULLETIN-SERIES A-APPLIED MATHEMATICS AND PHYSICS, vol.79, no.4, pp.69-82, 2017 (SCI-Expanded)

V. The regularized trace formula for a fourth order differential operator given in a finite interval Karayel S., Sezer Y.

JOURNAL OF INEQUALITIES AND APPLICATIONS, 2015 (SCI-Expanded)

VI. The regularized trace of a self adjoint differential operator of higher order with unbounded operator coefficient

Adiguzelov E., Sezer Y.

APPLIED MATHEMATICS AND COMPUTATION, vol.218, pp.2113-2121, 2011 (SCI-Expanded)

VII. The second regularized trace of a self adjoint differential operator given in a finite interval with bounded operator coefficient

Adiguzelov E., Sezer Y.

MATHEMATICAL AND COMPUTER MODELLING, vol.53, pp.553-565, 2011 (SCI-Expanded)

Articles Published in Other Journals

I. Solvability of Riemann Boundary Value Problems and Applications to Approximative Properties of Perturbed Exponential System in Orlicz Spaces

Bilalov B. T., SEZER Y., Alizadeh F. A., Ildiz U.

Azerbaijan Journal of Mathematics, vol.14, no.1, pp.164-185, 2024 (ESCI)

II. TRACE REGULARIZATION PROBLEM FOR HIGHER ORDERDIFFERENTIAL OPERATOR

Sezer Y., Bakşi Ö., Karayel S.

Maltepe Journal of Mathematics, vol.2, no.1, pp.27-37, 2020 (Peer-Reviewed Journal)

III. The sum of subtraction of the eigenvalues of two self adjoint differential operators with unbounded operator coefficient

BAKŞİ Ö., SEZER Y., KARAYEL S.

INTERNATIONAL JOURNAL OF PURE AND APPLIED MATHEMATICS, vol.3, no.63, pp.255-268, 2010 (Scopus)

IV. The sum of subtraction of the eigenvalues of two self-adjoint differential operators with unbounded operator coefficient

Karayel S., Bakşi Ö., Sezer Y.

International Journal of Pure and Applied Mathematics, vol.3, no.63, pp.255-268, 2010 (Peer-Reviewed Journal)

V. On Spektrum of a Self Adjoint Differential Operator of Higher Order with Unbounded Operator Coefficient and Asymptotic Behaviour of Eigenvalues

Adıguzelov E., Sezer Y.

Sigma Journal of Engineering and Natural Sciences, vol.2006, no.4, pp.32-48, 2006 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

I. SOLUTION OF FRACTIONAL DIFFERENTIAL EQUATION WITH SHEHU TRANSFORM

SEZER Y., Bağlık B.

9th International Congress on Fundamental and Applied Sciences 2022 (ICFAS2022), İstanbul, Turkey, 28 June 2022, pp.170

II. APPLICATION OF ADOMIAN DECOMPOSITION METHOD AND DIFFERENTIAL TRANSFORMATION METHOD IN SOLVING BAGLEY-TORVIK EQUATION

SEZER Y., Ertürk M.

9th International Congress on Fundamental and Applied Sciences 2022 (ICFAS2022), İstanbul, Turkey, 28 June 2022, pp.169

III. Using Big Data in Decision Making Processes and Mathematical Modelling

SEZER Y., AKDAŞ B.

5th INTERNATIONAL E-CONFERENCE ON MATHEMATICAL ADVANCES AND ITS APPLICATIONS, İstanbul, Turkey, 11 May 2022, pp.45

IV. The Second Regularized Trace of Even Order Differential Operators with Operator Coefficient SEZER Y., BAKŞİ Ö.

FOURTH INTERNATIONAL CONFERENCE OF MATHEMATICAL SCIENCES, İstanbul, Turkey, 17 June 2020, vol.1, pp.39

V. About Second Regularized Trace Of A Differential Operator

Sezer Y.

European Women in Mathematics General Meeting 2018, Graz, Austria, 3 - 07 September 2018, pp.1

VI. On Trace Of Second Order Differential Operator Equation. ,İstanbul Gelişim Üniversitesi SEZER Y.

4th International Conference on Pure and Applied sciences:Renewable Energy, 23 - 25 November 2017

VII. On Regularization of The Trace Of The Differential Operator

SEZER Y.

Third International Conference On Pure And Applied Science Dubai, 2 - 06 February 2017

VIII. About The Regularized Trace of A Self Adjoint Differential Operator

SEZER Y.

The Eight Congress of Romain Mathematics, 26 June - 01 July 2015

IX. On the Asymptotic Behavior of Eigenvalues of yhe Sturm- Liouville Operator

Sezer Y.

The 10 th AIMS Conference on Dynamical Systems, Madrid, Spain, 7 - 11 July 2014, pp.503

X. On The Regularized Trace of an Even Order Differential Operator Given in a Finite Interval

Sezer Y

Operator Theory, Analysis and Mathematical Physics, Centre De Rcerca Matematica, Barcelona, Spain, 12 - 14 June 2012, pp.1

XI. The Regularized Trace Formula For a Differential Operator of Fourth order with bounded operator Coefficient

SEZER Y., BAKŞİ Ö., KARAYEL S.

International Conference on Mathematical Sciences, Bolu, Turkey, 23 - 27 November 2010

XII. The Asymptotic Formula for the Subtraction of eigenvalues of a second order Differential operator Bakşi Ö., Karayel S., Sezer Y.

International Symposium on Analysis and theory of Functions, İstanbul Kültür University, İstanbul, Turkey, 24 - 26 August 2009, pp.41-42

XIII. The Second Regularized Trace of a Differential Operator with Operator Coefficien

Sezer Y.

XVI International Congress on Mathematical Physics, Prague, Praha, Czech Republic, 3 - 08 August 2009, vol.50, no.10201, pp.1

XIV. The Regularized Trace of a Differential Operator of even Order with Operator Coefficient

Adıguzelov E., Sezer Y.

Fifth International Conference of Applied Mathematics and Computing , University of Chemical Technology and Metallurgy, Plovdiv, Bulgaria, 12 - 18 August 2008, pp.11

XV. Çift Mertebeden Operatör Katsayılı Bir Diferansiyel Operatörün Spektrumunun İncelenmesi ve Özdeğerleri İçin Asimtotik Formül

Sezer Y.

19. Ulusal Matematik Sempozyumu, Kütahya, Turkey, 21 - 25 August 2006, pp.1

Supported Projects

GÜL E., KIZILBUDAK ÇALIŞKAN S., SEZER Y., BAKŞİ Ö., KARAYEL S., Project Supported by Higher Education Institutions, Zaman-Sıralı Hiperbolik ve Parabolik Evolüsyon Sistemleri, 2023 - 2024

SEZER Y., BAKŞİ Ö., Project Supported by Higher Education Institutions, Yüksek Mertebeden Diferansiyel Operatörün Banach Uzayı Üzerinde Özdeğerlerinin Toplamı için Asimptotik Formüller, 2023 - 2024

Scientific Refereeing

IĞDIR ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, Other Indexed Journal, March 2019

Scientific Research / Working Group Memberships

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

Metrics

Publication: 28 Citation (WoS): 11 Citation (Scopus): 12 H-Index (WoS): 2

Congress and Symposium Activities

4th International Conference on Pure and Applied sciences:Renewable Energy, Attendee, İstanbul, Turkey, 2017

Non Academic Experience

Yeditepe Üniversitesi Türkiye Medipol Üniversitesi