

Assoc. Prof. Fatma AYDIN AKGÜN

Personal Information

Web: <https://avesis.yildiz.edu.tr/fakgun>

Address: Y.T.Ü. Kimya Metalurji Fakültesi Matematik Mühendisliği Bölümü A236 Davutpaşa Kampüsü Esenler



Education Information

Doctorate, Yildiz Technical University, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Department of Mathematics Engineering, Turkey 2002 - 2008

Postgraduate, Yildiz Technical University, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Department of Mathematics Engineering, Turkey 2000 - 2002

Undergraduate, Yildiz Technical University, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Department of Mathematics Engineering, Turkey 1995 - 1998

Foreign Languages

Russian, A1 Beginner

English, C1 Advanced

Certificates, Courses and Trainings

Education Management and Planning, MATLAB KURSU, FİGES, 2008

Foreign Language, BAZOVIY UROVEN (Ruşça dil eğitimi), Milli Eğitim Bakanlığı, 2007

Dissertations

Doctorate, SINIR KOŞULUNDA SPEKTRAL PARAMETRE BULUNAN SINIR DEĞER PROBLEMLERİ ÜZERİNE, Yıldız Teknik Üniversitesi, Kimya Metalurji Fakültesi, Matematik Mühendisliği, 2008

Postgraduate, TİM EKSENDE OPERATÖR KATSAYILI STURM-LIOUVILLE DENKLEMİNİN GREEN FONKSİYONUNUN BULUNMASI VE ÖZDEĞERLERİ SAYISININ ASİMPOTOTİK İFADESİ ÜZERİNE, Yıldız Teknik Üniversitesi, FACULTY OF CHEMICAL AND METALLURGICAL ENGINEERING, Matematik Mühendisliği, 2002

Research Areas

Soft Computing, Mathematics, Sequences, Series, Summability, Functional Analysis, Natural Sciences

Academic Titles / Tasks

Associate Professor, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Mathematics Engineering, 2000 - Continues

Academic and Administrative Experience

Erasmus Coordinator, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Mathematics Engineering, 2015 - Continues

Yıldız Teknik Üniversitesi, Burs Komisyonu, 2015 - Continues

Courses

Matematik Mühendisliğinde Tasarım Uygulamaları, Undergraduate, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021, 2021 - 2022

LİNEER CEBİR(1.ÖĞR), Undergraduate, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2021 - 2022

Matematik Mühendisliğine Giriş, Undergraduate, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021, 2021 - 2022

BİTİRME ÇALIŞMASI, Undergraduate, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021, 2021 - 2022

İŞLETME MATEMATİĞİ 2(İNG), Undergraduate, 2016 - 2017

YÜKSEK LİSANS TEZİ, Postgraduate, 2016 - 2017

UZMANLIK ALAN DERSİ, Postgraduate, 2016 - 2017

LİNEER CEBİR(ing), Undergraduate, 2017 - 2018

İŞLETME MATEMATİĞİ 1(İNG), Undergraduate, 2015 - 2016, 2016 - 2017, 2017 - 2018

İSTATİSTİK OLASILIK, Undergraduate, 2015 - 2016, 2016 - 2017

OLASILIK TEORİSİ VE MATE. İSTATİSTİK, Postgraduate, 2015 - 2016

İSTATİSTİK OLASILIK, Undergraduate, 2015 - 2016, 2016 - 2017

MATEMATİK LOJİK(2.ÖĞR), Undergraduate, 2015 - 2016

LİNEER CEBİR(2.ÖĞR), Undergraduate, 2015 - 2016, 2016 - 2017

İŞLETME MATEMATİĞİ , Undergraduate, 2016 - 2017

YÜKSEK LİSANS TEZİ, Postgraduate, 2016 - 2017

İSTATİSTİKİ KARAR TEORİSİ, Postgraduate, 2015 - 2016

MEÜHENDİSLİK MATEMATİĞİ 1, Postgraduate, 2015 - 2016

Advising Theses

AYDIN AKGÜN F., MONOTONLUĞU KORUYAN MATRİSLER, Postgraduate, S.MAHMOOD(Student), 2016

Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Sakarya Üniversitesi, December, 2021

Doctoral Examination, Doctoral Examination, Sakarya Üniversitesi, October, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Sakarya Üniversitesi, May, 2021

Doctorate, DOKTORA YETERLİLİK, SAKARYA ÜNİVERSİTESİ, September, 2017

Doctorate, Tez savunma Jürisi, SAKARYA ÜNİVERSİTESİ, February, 2017

Doctorate, Doktora yeterlilik Jürisi, SAKARYA ÜNİVERSİTESİ, September, 2016

Award, tubitak PANEL DIŞ DANIŞMANLIK, TUBITAK, May, 2016

Doctorate, DOKTORA YETERLİLİK, SAKARYA ÜNİVERSİTESİ, February, 2016

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

1. A new iteration method for the solution of third-order BVP via Green's function

AYDIN AKGÜN F., Rasulov Z.

Demonstratio Mathematica, vol.54, no.1, pp.425-435, 2021 (Journal Indexed in SCI Expanded)

II. THE SECOND REGULARIZED TRACE FORMULA FOR THE STURM-LIOUVILLE OPERATOR

Akgun F., Bayramoglu M., Bayramov A.

MISKOLC MATHEMATICAL NOTES, vol.20, no.1, pp.17-32, 2019 (Journal Indexed in SCI)

III. Characterizations of H-J Matrices

Akgun F., Rhoades B. E.

FILOMAT, vol.30, no.3, pp.675-679, 2016 (Journal Indexed in SCI)

IV. Totally Equivalent HJ Matrices

Aydın Akgün F., Rhoades B.

Applied Mathematics & Information Sciences, vol.9, no.4, pp.1671-1676, 2015 (Journal Indexed in SCI Expanded)

V. Monotonicity-preserving doubly infinite matrices

Akgun F. A., Rhoades B. E.

APPLIED MATHEMATICS AND COMPUTATION, vol.235, pp.105-109, 2014 (Journal Indexed in SCI)

VI. Absolute Tauberian constants for H-J Hausdorff matrices

AYDIN AKGÜN F., Rhoades B.

Applied Mathematics and Information Sciences, vol.7, no.4, pp.1405-1413, 2013 (Journal Indexed in SCI)

VII. Properties of some q-Hausdorff matrices

Akgun F., Rhoades B. E.

APPLIED MATHEMATICS AND COMPUTATION, vol.219, no.14, pp.7392-7397, 2013 (Journal Indexed in SCI)

VIII. Discontinuous Boundary Value Problems with Retarded Argument and Eigenparameter-Dependent Boundary Conditions

Akgun F., Bayramov A., Bayramoglu M.

MEDITERRANEAN JOURNAL OF MATHEMATICS, vol.10, no.1, pp.277-288, 2013 (Journal Indexed in SCI)

IX. 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 (Journal Indexed in SCI)

X. Upper bounds for E-J matrices

Akgun F., Rhoades B. E.

APPLIED MATHEMATICS & INFORMATION SCIENCES, vol.6, no.3, pp.1125-1127, 2012 (Journal Indexed in SCI)

XI. The Equivalence of Generalized Hölder and Cesaro Matrices

AYDIN AKGÜN F., RHOADES B.

Applied Mathematics and Computation, vol.12, no.218, pp.6677-6683, 2012 (Journal Indexed in SCI Expanded)

Articles Published in Other Journals

I. Generalized iteration method for the solution of fourth order BVP via Green's function

AYDIN AKGÜN F., Rasulov Z.

EUROPEAN JOURNAL OF PURE AND APPLIED MATHEMATICS, vol.14, no.3, pp.969-979, 2021 (Journal Indexed in ESCI)

II. Global Bifurcation of Fourth-Order Nonlinear Eigenvalue Problems' Solution

AYDIN AKGÜN F.

International Journal of Differential Equations, vol.2021, 2021 (Refereed Journals of Other Institutions)

III. E-J Summability of Orthogonal Series

Akgun F. A., Rhoades B. E.

EUROPEAN JOURNAL OF PURE AND APPLIED MATHEMATICS, vol.13, no.3, pp.390-402, 2020 (Journal Indexed in ESCI)

IV. On Fixed Point Results for Multivalued Operators in b_2 Metric Spaces

Aydın Akgün F.

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.13, no.20, pp.472-488, 2020 (International Refereed University Journal)

V. STRUCTURAL PROPERTIES OF H-J MATRICES

Aydın Akgün F., Rhoades B.

JOURNAL OF INEQUALITIES AND SPECIAL FUNCTIONS, vol.9, no.3, pp.28-33, 2018 (Journal Indexed in ESCI)

VI. Monotonicity Preserving Matrices

Aydın Akgün F., Rhoades B. R., Mahmood Mohammed S.

SAKARYA UNIVERSITY JOURNAL OF SCIENCE, vol.21, no.3, pp.522-526, 2017 (International Refereed University Journal)

VII. ABSOLUTE TAUBERIAN CONSTANTS FOR LOWER TRIANGULAR MATRICES

Aydın Akgün F., Rhoades B.

SARAJEVO JOURNAL OF MATHEMATICS, vol.9, no.4, pp.1671-1675, 2015 (Refereed Journals of Other Institutions)

VIII. Boundary Value Problem with Matrix Coefficient and Eigenparameter in the Boundary Condition

AYDIN AKGÜN F., BAYRAMOĞLU M.

International Journal of Functional Analysis, Operator Theory and Applications, vol.3, no.1, pp.77-91, 2011 (Refereed Journals of Other Institutions)

IX. Green Function of Discontinuous Boundary Value Problem with Eigenparameter in Boundary Conditions

Aydın Akgün F.

Sigma Mühendislik ve Fen Bilimleri Dergisi, vol.1, no.28, pp.15-25, 2010 (National Refereed University Journal)

X. Factorable Generalized Hausdorff matrices

AYDIN AKGÜN F., RHOADES B.

Journal of Advanced Math. Studies, vol.3, no.1, pp.1-8, 2010 (Refereed Journals of Other Institutions)

XI. On a Boundary Value Problem with Matrix Coefficient which has Spectral Parameter in Boundary Condition

AYDIN AKGÜN F.

Sigma Mühendislik ve Fen Bilimleri Dergisi, vol.26, no.3, pp.175-191, 2008 (Other Refereed National Journals)

XII. On the Green Function of a Second Ordered Differential Equation with Operator Coefficient

AYDIN AKGÜN F.

ANALELE,FASCICOLA MATEMATICA, vol.8, no.8, pp.5-22, 2006 (Refereed Journals of Other Institutions)

XIII. Calculated of Regularized Trace of an Even Order Differential Equation in Final Interval

Aydın Akgün F.

Sigma Journal of Engineering and Natural Sciences, vol.4, no.22, pp.279-293, 2004 (National Refereed University Journal)

XIV. Asymptotic Expression of Eigenvalues Number of Second Order Sturm-Liouville Operator Equation with Operator Coefficient Given in Real Axis

AYDIN AKGÜN F.

YTÜD, vol.2003, no.2, pp.111-124, 2003 (Other Refereed National Journals)

Refereed Congress / Symposium Publications in Proceedings

I. Monotonicity Preserving Matrices

Aydın Akgün F.

1st international conference on Advances in Science and Arts, İstanbul, Turkey, 29 - 31 March 2017, pp.1

II. Matrices Which Preserve Decreasing Sequences

AYDIN AKGÜN F.

ICRAPAM 2016, Muğla, Turkey, 19 May 2016, pp.1

III. Some Properties Of Generalized Hausdorff Matrices

AYDIN AKGÜN F.

ICRAPAM 2016, Muğla, Turkey, 19 May 2016, pp.1

- IV. **Absolute Tauberian Constants**
AYDIN AKGÜN F.
IECMSA - 2015, Atina, Greece, 31 August 2015, pp.1
- V. **Matrices that Commute with Generalized Hausdorff**
AYDIN AKGÜN F.
ICRAPAM, İstanbul, Turkey, 03 July 2015, pp.5
- VI. **Generalization of Hausdorff Matrices**
AYDIN AKGÜN F.
Recent Advances in Pure and Applied Mathematics (ICRAPAM 2014), 01 November 2014
- VII. **Absolute Tauberian Constants for H-J Hausdorff Matrices**
Akgun F., Rhoades B. E.
International Conference of Numerical Analysis and Applied Mathematics (ICNAAM), Kos, Greece, 19 - 25 September 2012, vol.1479, pp.932-935
- VIII. **On a Boundary Value Problem with Spectral Parameter in Boundary Conditions**
AYDIN AKGÜN F.
II. Turkish World Mathematic Conference, 01 July 2007
- IX. **On the Green Function of a second ordered Differential Equations with Operator Coefficient**
Aydın Akgün F.
Several aspects of biology, chemistry, computer science, mathematics and physics an International Conference, Oradea, Romania, 11 - 13 November 2005, pp.1
- X. **Resolvent Of Schrödinger Operator Equation Given in n-Dimensional Space**
AYDIN AKGÜN F.
International Workshop On Analysis and Its Applications, 01 September 2004
- XI. **On Green Function of Fourth Ordered Differential Equation with Operator Coefficient**
Aydın Akgün F.
International Conference on Non-Linear Operators ,Differential Equations and Applications,, Cluj-Napoca, Romania, 24 - 27 August 2004, pp.45
- XII. **Spectral Properties of Sturm-Liouville Problem which has Singularity with Eigenvalue in Boundary Condition**
Aydın Akgün F.
International Conference on Non-Linear Operators, Differential Equations and Applications, Cluj-Napoca, Romania, 24 - 27 August 2004, pp.125

Supported Projects

Aydın Akgün F., Soytürk G., Dede M., TUBITAK Project, VÜCUT SICAKLIKLARININ TEMASSIZ TESPİT VE UYARI SİSTEMİ, 2017 - 2018

AYDIN AKGÜN F., Project Supported by Higher Education Institutions, Hausdorff Matrislerine Ait Bazı Teoremlerin Genelleştirilmesi, 2014 - 2016

Patent

Aydın Akgün F., Vücut Sıcaklık Takip Sistemi, Patent, CHAPTER A Human Needs, The Invention Registration Number: 2019 07825 , Initial Registration, 2020

Activities in Scientific Journals

Special Issue Editor, 2015 - 2016

Scientific Refereeing

BULLETIN OF THE MALAYSIAN MATHEMATICAL SCIENCES SOCIETY, SCI Journal, September 2020

Fundamental Journal of Mathematics and Applications, Other Journals, December 2019

MATHEMATICA SLOVACA, Journal Indexed in SCI-E, October 2019

LINEAR & MULTILINEAR ALGEBRA, Journal Indexed in SCI-E, July 2019

TURKISH JOURNAL OF MATHEMATICS, SCI Journal, April 2019

JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, SCI Journal, April 2019

Sakarya University Journal of Science, Other Indexed Journal, December 2017

Proceedings of the Institute of Mathematics and Mechanics, SCI Journal, September 2016

AMS Mathematical Reviews/MathSciNet, SCI Journal, February 2016

Proceedings of the Institute of Mathematics and Mechanics, SCI Journal, January 2016

journal of Inequalities and Applications-guest editor, SCI Journal, November 2014

Scientific Consultations

TUBITAK, Project Consultancy, Yildiz Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Mathematics Engineering, Turkey, 2016 - 2016

Tasks In Event Organizations

Aydın Akgün F., International Conference on Recent Advances in Pure and Applied Mathematics (ICRAPAM2016), Scientific Congress, Muğla, Turkey, Mayıs 2016

Aydın Akgün F., Düzenleme Kurulu Üyeliği, International Conference on Recent Advances in Pure and Applied Mathematics (ICRAPAM2015), Scientific Congress, İstanbul, Turkey, Haziran 2015

Aydın Akgün F., Aydoğdu İ., International Conference on Applied Analysis and Algebra, Scientific Congress, İstanbul, Turkey, Temmuz 2012

Aydın Akgün F., Köroğlu M. E. , AYDOĞDU İ., International Conference on Applied Analysis and Algebra, Scientific Congress, İstanbul, Turkey, Temmuz 2011

Edit Congress and Symposium Activities

EU programme "operator theory methods for differential Equations", Invited Speaker, Warszawa, Poland, 2007

Citations

Total Citations (WOS):22

h-index (WOS):2

Invited Talks

Operator Theory Methods For Differential Equations, Seminar, Institute of Mathematics, Polish Academy of Science, Turkey, November 2007

Awards

Aydın Akgün F., Dede M., Soytürk G., ALTIN MADALYA, Isif 2020 İstanbul Uluslararası Buluş Fuar, September 2020

AYDIN AKGÜN F., En çok yayın yapan yardımcı doçent ödülü(2.grup), ytü, March 2015

Entrepreneurship Activities

Limited, LOHA TEKNOLOJİ, 07 December 2020, Founder Owner