Prof. MUSTAFA FAHRİ AKTAŞ

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: I-7025-2012

ScopusID: 57110502300 Yoksis Researcher ID: 45578

Biography

I'm a lecturer at Department of Mathematics at the University of Gazi. I have had received my undergraduate education from Ankara University between 1997 and 2001. I have had received my graduate and doctorate education from Gazi University. I completed my graduate studies in 2003 and then I completed my doctorate's in 2009. From 2002 until 2009 I worked as a research assistant. During my PhD studies, while I was studying with Professor Aydin Tiryaki, I received a grant and studied with Professor Ravi P. Agarwal at Florida Institute of Technology in the USA (Feb 2008-Sept 2008). After my graduation in 2009, I became an assistant professor. In 2020, I have started my work a professor at GU. My interest areas are oscillation theory, difference equations, and inequalities. Nowadays, I am interested in Green's function,

Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 2003 - 2009
Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Matematik (Yl) (Tezli), Turkey 2001 - 2003
Postgraduate, Ankara University, Eğitim Bilimleri Fakültesi, Matematik Öğretmenliği Sertifikası, Turkey 2000 - 2001
Undergraduate, Ankara University, Fen Fakültesi, Matematik Bölümü, Turkey 1997 - 2001

Dissertations

Doctorate, Üçüncü basamaktan bir fonksiyonel diferensiyel denklem sınıfının çözümlerinin davranışı üzerine, Gazi University, Fen Bilimleri Enstitüsü, Matematik (Dr), 2008

Postgraduate, İkinci basamaktan bir denklem sınıfının çözümlerinin salınımlığı üzerine, Gazi University, Fen Bilimleri Enstitüsü, Matematik (Yl) (Tezli), 2003

Research Areas

Mathematics, Differential Equations, Dynamic Systems and Ergodic Theory, Sequences, Series, Summability, Functional Equations, Fourier Analysis, General Mathematics, Integral Equations, Partial Differential Equations, Numerical Analysis,

Academic Titles / Tasks

Professor, Gazi University, Fen Fakültesi, Matematik, 2019 - Continues Associate Professor, Gazi University, Fen Fakültesi, Matematik, 2015 - 2019 Associate Professor, Florida Üniversitesi, İngilizce Dil Enstitüsü, 2016 - 2016 Assistant Professor, Gazi University, Fen Fakültesi, Matematik, 2009 - 2014 Research Assistant, Gazi University, Fen Fakültesi, Matematik, 2002 - 2009 Research Assistant, Florida Institute of Technology, 2008 - 2008

Academic and Administrative Experience

Zaman Skalası II, Undergraduate, 2022 - 2023

Matematik Bölümü İntibak Komisyon Üyeliği, Gazi University, Fen Fakültesi, Matematik, 2022 - Continues
Matematik Bölümü Eğim Komisyonu Üyeliği, Gazi University, Fen Fakültesi, Matematik, 2021 - Continues
Bölüm Kalite Komisyonu Başkanı, Gazi University, Fen Fakültesi, Matematik, 2020 - 2020
Gazi University, Fen Fakültesi, Matematik Bölümü, 2014 - 2015
Bölüm Bologna Koordinatörü, Gazi University, Fen Fakültesi, Matematik, 2014 - 2015
Mevlana Exchange Program Institutional Coordinator, Gazi University, Fen Fakültesi, Matematik Bölümü, 2013 - 2015
Erasmus Fakülte Koordinatör Yardımcılığı, Gazi University, Fen Fakültesi, Matematik, 2012 - 2015
AKTS Bölüm Koordinatörlüğü, Gazi University, Fen Fakültesi, Matematik Bölümü, 2012 - 2015
AKTS Bölüm Koordinatör Yardımcılığı, Gazi University, Fen Fakültesi, Matematik, 2004 - 2012
Erasmus Bölüm Koordinatör Yardımcılığı, Gazi University, Fen Fakültesi, Matematik, 2004 - 2012

Courses

Diferensiyel Denklemler II, Undergraduate, 2021 - 2022 Fark Denklemlerine Giriş II, Undergraduate, 2021 - 2022 Zaman Skalası I, Undergraduate, 2022 - 2023 Bilimsel Araştırma Yöntemleri ve Etik, Doctorate, 2022 - 2023 Diferential Equations I, Undergraduate, 2021 - 2022 İntegral Denklemleri, Undergraduate, 2020 - 2021 Kompleks Analiz II, Undergraduate, 2017 - 2018 Diferansiyel Denklemlerin Kararlılığı, Doctorate, 2017 - 2018 Başlangıç ve Sınır Değer Problemleri, Doctorate, 2017 - 2018 Kısmi Türevli Diferensiyel Denklemler II, Undergraduate, 2017 - 2018 Özel Fonksiyonlar, Undergraduate, 2017 - 2018 Analiz II, Undergraduate, 2017 - 2018 Fark Denklemlerine Giriş I, Undergraduate, 2017 - 2018 Uygulamalı Matematik II, Undergraduate, 2016 - 2017 Diferansiyel Denklemlerin Nümerik Çözümleri, Undergraduate, 2016 - 2017 Green Fonksiyonları, Doctorate, 2016 - 2017 Fourier Analiz, Undergraduate, 2017 - 2018 Fonksiyonel Analiz I, Undergraduate, 2017 - 2018 Adi Diferansiyel Denklemlerin Nümerik Çözümleri, Undergraduate, 2016 - 2017 Analiz I, Undergraduate, 2017 - 2018

Kompleks Analiz I, Undergraduate, 2017 - 2018
Uygulamalı Matematik I, Undergraduate, 2017 - 2018
Kısmi Türevli Diferensiyel Denklemler I, Undergraduate, 2017 - 2018
Bilişim Teknolojileri Temelleri, Undergraduate, 2016 - 2017
Temel Matematik, Undergraduate, 2016 - 2017

Advising Theses

Aktaş M. F., Yüksek basamaktan sınır değer problemleri için Lyapunov tipi eşitsizlikler, Doctorate, A.AHMETOĞLU(Student), 2024

Aktaş M. F., Belirli operatörleri içeren lineer olmayan bir sistem için Lyapunov tipi eşitsizlikler, Postgraduate, B.BİNGÜL(Student), 2024

Aktaş M. F., LYAPUNOV-TYPE INEQUALITIES FOR HIGH ORDER FRACTIONAL BOUNDARY VALUE PROBLEMS, Postgraduate, D.YILDIZ(Student), 2022

AKTAŞ M. F., The Behaviors Of The Principal And Nonprincipal Solutions, Postgraduate, A.QAROOT(Student), 2015 Aktaş M. F., Lyapunov type inequalities for systems, Postgraduate, M.ARITÜRK(Student), 2015 AKTAŞ M. F., Oscillation Of Third Order Dİfferential Equations, Postgraduate, A.AHMETOĞLU(Student), 2015

Jury Memberships

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Samsun Üniversitesi, January, 2024

Post Graduate, Post Graduate, Ankara Üniversitesi, September, 2023

AKTAŞ M. F., Lyapunov type inequalities, Postgraduate, Ö.ÖZTÜRK(Student), 2012

Doctorate, Doctorate, Gazi Üniversitesi, February, 2023

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Ankara Hacı Bayram Veli Üniversitesi, May, 2022

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Nevşehir Hacı Bektaş Veli Üniversitesi, February, 2022

Post Graduate, Post Graduate, Gazi Üniversitesi, July, 2021

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Ankara Hacı Bayram Veli Üniversitesi, January, 2021

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Gazi Üniversitesi, November, 2020

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Fırat Üniversitesi, February, 2020

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi Üniversitesi, December, 2019

Post Graduate, Post Graduate, Ankara Üniversitesi, June, 2015

Published journal articles indexed by SCI, SSCI, and AHCI

I. Lyapunov-type inequalities for a certain nonlinear system including operators Aktaş M. F., Bingül B. E.

UKRAINIAN MATHEMATICAL JOURNAL, vol.1, no.1, pp.1-12, 2024 (SCI-Expanded)

II. Oscillation criteria of Kamenev-type for non-linear partial differential equations Aktaş M. F., Demir E. E. COMPLEX VARIABLES AND ELLIPTIC EQUATIONS, vol.1, no.1, pp.1-15, 2024 (SCI-Expanded) III. On Lyapunov-type inequalities for five different types of higher order boundary value problems AKTAŞ M. F., Erçikti B. B.

Turkish Journal of Mathematics, vol.48, no.1, pp.90-105, 2024 (SCI-Expanded)

IV. On Lyapunov-Type Inequalities for Nonlinear Hamiltonian-Type Problems

AKTAŞ M. F.

Filomat, vol.36, no.10, pp.3423-3432, 2022 (SCI-Expanded)

V. On Lyapunov-type inequalities for (<i>n</i>+1)st order nonlinear differential equations with the antiperiodic boundary conditions

AKTAŞ M. F.

TURKISH JOURNAL OF MATHEMATICS, vol.45, no.6, pp.2614-2622, 2021 (SCI-Expanded)

VI. Periodic solutions of relativistic Lienard-type equations

Aktas M. F.

ELECTRONIC JOURNAL OF QUALITATIVE THEORY OF DIFFERENTIAL EQUATIONS, vol.2020, pp.1-12, 2020 (SCI-Expanded)

VII. On Lyapunov-type inequalities for odd order boundary value problems

AKTAŞ M. F., ÇAKMAK D., AHMETOĞLU A.

JOURNAL OF INEQUALITIES AND APPLICATIONS, 2019 (SCI-Expanded)

VIII. Lyapunov-type inequalities for fourth-order boundary value problems

AKTAŞ M. F., ÇAKMAK D., AHMETOĞLU A.

REVISTA DE LA REAL ACADEMIA DE CIENCIAS EXACTAS FISICAS Y NATURALES SERIE A-MATEMATICAS, vol.113, no.2, pp.615-625, 2019 (SCI-Expanded)

IX. Lyapunov-type inequalities for third order linear differential equations with two points boundary conditions

AKTAŞ M. F., ÇAKMAK D.

HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.48, no.1, pp.59-66, 2019 (SCI-Expanded)

X. Lyapunov-Type Inequalities for Two Classes of Nonlinear Systems with Homogeneous Dirichlet Boundary Conditions

AKTAŞ M. F.

UKRAINIAN MATHEMATICAL JOURNAL, vol.70, no.6, pp.837-850, 2018 (SCI-Expanded)

XI. LYAPUNOV-TYPE INEQUALITIES FOR THIRD-ORDER LINEAR DIFFERENTIAL EQUATIONS AKTAŞ M. F., ÇAKMAK D.

ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS, 2017 (SCI-Expanded)

XII. On the Lyapunov-type inequalities of a three-point boundary value problem for third order linear differential equations

AKTAŞ M. F., ÇAKMAK D., Tiryaki A.

APPLIED MATHEMATICS LETTERS, vol.45, pp.1-6, 2015 (SCI-Expanded)

XIII. LYAPUNOV-TYPE INEQUALITIES FOR TWO CLASSES OF DIRICHLET QUASILINEAR SYSTEMS Tiryaki A., ÇAKMAK D., AKTAŞ M. F.

MATHEMATICAL INEQUALITIES & APPLICATIONS, vol.17, no.3, pp.843-863, 2014 (SCI-Expanded)

XIV. LYAPUNOV-TYPE INEQUALITY FOR QUASILINEAR SYSTEMS WITH ANTI-PERIODIC BOUNDARY CONDITIONS

AKTAŞ M. F., ÇAKMAK D., Tiryaki A.

JOURNAL OF MATHEMATICAL INEQUALITIES, vol.8, no.2, pp.313-320, 2014 (SCI-Expanded)

XV. On the multivariate Lyapunov inequalities

AKTAŞ M. F.

APPLIED MATHEMATICS AND COMPUTATION, vol.232, pp.784-786, 2014 (SCI-Expanded)

XVI. LYAPUNOV-TYPE INEQUALITIES FOR NONLINEAR SYSTEMS INVOLVING THE (p(1), p(2), ..., p(n))LAPLACIAN

ÇAKMAK D., AKTAŞ M. F., Tiryaki A.

ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS, 2013 (SCI-Expanded)

XVII. LYAPUNOV-TYPE INEQUALITIES FOR n-DIMENSIONAL QUASILINEAR SYSTEMS

AKTAŞ M. F.

ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS, 2013 (SCI-Expanded)

XVIII. Lyapunov-type inequalities for a certain class of nonlinear systems

Tiryaki A., ÇAKMAK D., AKTAŞ M. F.

COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.64, no.6, pp.1804-1811, 2012 (SCI-Expanded)

XIX. Oscillation of third-order nonlinear delay difference equations

AKTAŞ M. F., Tiryaki A., Zafer A.

TURKISH JOURNAL OF MATHEMATICS, vol.36, no.3, pp.422-436, 2012 (SCI-Expanded)

XX. A note on Tang and He's paper

AKTAŞ M. F., ÇAKMAK D., Tiryaki A.

APPLIED MATHEMATICS AND COMPUTATION, vol.218, no.9, pp.4867-4871, 2012 (SCI-Expanded)

XXI. On the qualitative behaviors of solutions of third-order nonlinear functional differential equations AKTAS M. F., CAKMAK D., Tiryaki A.

APPLIED MATHEMATICS LETTERS, vol.24, no.11, pp.1849-1855, 2011 (SCI-Expanded)

XXII. On the qualitative behaviors of solutions of third order nonlinear differential equations AKTAŞ M. F., ÇAKMAK D., Tiryaki A.

COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.62, no.4, pp.2029-2036, 2011 (SCI-Expanded)

XXIII. Oscillation criteria for third-order nonlinear functional differential equations

AKTAŞ M. F., Tiryaki A., Zafer A.

APPLIED MATHEMATICS LETTERS, vol.23, no.7, pp.756-762, 2010 (SCI-Expanded)

XXIV. Integral criteria for oscillation of third order nonlinear differential equations

AKTAŞ M. F., Tiryaki A., Zafer A.

NONLINEAR ANALYSIS-THEORY METHODS & APPLICATIONS, vol.71, no.12, 2009 (SCI-Expanded)

XXV. ON THE OSCILLATION OF THIRD ORDER FUNCTIONAL DIFFERENTIAL EQUATIONS

Grace S. R., Agarwal R. P., AKTAŞ M. F.

INDIAN JOURNAL OF PURE & APPLIED MATHEMATICS, vol.39, no.6, pp.491-507, 2008 (SCI-Expanded)

XXVI. Oscillation criteria of a certain class of third order nonlinear delay differential equations with damping

Tiryaki A., AKTAŞ M. F.

JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol.325, no.1, pp.54-68, 2007 (SCI-Expanded)

Articles Published in Other Journals

I. LYAPUNOV-TYPE INEQUALITIES FOR THIRD-ORDER LINEAR DIFFERENTIAL EQUATIONS UNDER THE NON-CONJUGATE BOUNDARY CONDITIONS

AKTAŞ M. F., ÇAKMAK D.

DIFFERENTIAL EQUATIONS & APPLICATIONS, vol.10, no.2, pp.219-226, 2018 (ESCI)

II. Lyapunov-Type Inequalities for Two Classes of Difference Systems with Dirichlet Boundary Conditions

AKTAŞ M. F., ÇAKMAK D., Ariturk M.

GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.28, no.3, pp.473-482, 2015 (ESCI)

III. A Note on Multivariate Lyapunov-Type Inequality

AKTAŞ M. F., ÇAKMAK D.

GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.28, no.2, pp.265-267, 2015 (ESCI)

IV. Oscillation criteria for a class of third-order nonlinear delaydifferential equations AKTAS M. F.

Further Progress in Analysis (Tam Metin Bildiri), pp.507-514, 2009 (Peer-Reviewed Journal)

V. On oscillation criteria for third order nonlinear delay differential equations RAVI P A., AKTAŞ M. F., TİRYAKİ A.

Archivum Mathematicum (Brno), vol.45, pp.1-18, 2009 (Scopus)

VI. Oscillation criteria for third order nonlinear difference equations

GRACE S. R., RAVI P A., AKTAŞ M. F.

Fasciculi Mathematici, vol.42, pp.39-51, 2009 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. On Lyapunov-Type inequalities for various types of boundary value problems

AKTAŞ M. F.

IECMSA 2019, 27 - 30 August 2019

II. Oscillation criteria for a class of third order nonlinear delay differential equations

AKTAŞ M. F., TİRYAKİ A., TİRYAKİ A.

ISAAC 2007, Ankara, Turkey, 13 - 18 August 2007, pp.507-514

III. Oscillation criteria of a certain class of third order nonlinear delay differential equations

AKTAŞ M. F., TİRYAKİ A., ZAFER A.

WCNA 2008, 2 - 09 July 2008, vol.71, pp.1496-1502

Memberships / Tasks in Scientific Organizations

Türk Matematik Derneği, Member, 2009 - Continues, Turkey

Scientific Refereeing

ABSTRACT AND APPLIED ANALYSIS, SCI Journal, October 2023

TUBITAK Project, 2204-A High School Students Research Projects Competition, Gazi University, Turkey, March 2023 TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Gazi University, Turkey, January 2023

TUBITAK Project, 2204-B Middleschool Students Research Projects Competition, Gazi University, Turkey, February 2022 TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Gazi University, Turkey, June 2021

MATHEMATICA SLOVACA, SCI Journal, March 2021

ADVANCES IN DIFFERENCE EQUATIONS, SCI Journal, February 2021

MEDITERRANEAN JOURNAL OF MATHEMATICS, SCI Journal, October 2020

ADVANCES IN DIFFERENCE EQUATIONS, SCI Journal, October 2020

MEDITERRANEAN JOURNAL OF MATHEMATICS, SCI Journal, September 2020

TUBITAK Project, 2204-B Middleschool Students Research Projects Competition , Gazi University, Turkey, March 2020

ADVANCES IN DIFFERENCE EQUATIONS, SCI Journal, October 2019

ADVANCES IN DIFFERENCE EQUATIONS, SCI Journal, September 2019

MEDITERRANEAN JOURNAL OF MATHEMATICS, SCI Journal, June 2019

ADVANCES IN DIFFERENCE EQUATIONS, SCI Journal, February 2019

ADVANCES IN DIFFERENCE EQUATIONS, SCI Journal, December 2018

MEDITERRANEAN JOURNAL OF MATHEMATICS, SCI Journal, November 2018

ADVANCES IN DIFFERENCE EQUATIONS, SCI Journal, November 2018

ADVANCES IN DIFFERENCE EQUATIONS, SCI Journal, October 2018

TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, Gazi University, Turkey, June 2018

ADVANCES IN DIFFERENCE EQUATIONS, SCI Journal, May 2018

ADVANCES IN DIFFERENCE EQUATIONS, SCI Journal, March 2018

ADVANCES IN DIFFERENCE EQUATIONS, SCI Journal, February 2018

ADVANCES IN DIFFERENCE EQUATIONS, SCI Journal, November 2017

ADVANCES IN DIFFERENCE EQUATIONS, SCI Journal, October 2017

ADVANCES IN DIFFERENCE EQUATIONS, SCI Journal, October 2017

ADVANCES IN DIFFERENCE EQUATIONS, SCI Journal, September 2017

FILOMAT, SCI Journal, September 2017

DIFFERENTIAL EQUATIONS & APPLICATIONS, SCI Journal, January 2017

ADVANCES IN DIFFERENCE EQUATIONS, SCI Journal, November 2016

MEDITERRANEAN JOURNAL OF MATHEMATICS, SCI Journal, September 2016

HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, SCI Journal, May 2016

DYNAMIC SYSTEMS AND APPLICATIONS, SCI Journal, May 2016

ADVANCES IN DIFFERENCE EQUATIONS, SCI Journal, September 2015

ADVANCES IN DIFFERENCE EQUATIONS, SCI Journal, November 2013

ADVANCES IN DIFFERENCE EQUATIONS, SCI Journal, June 2013

ADVANCES IN DIFFERENCE EQUATIONS, SCI Journal, January 2012

ADVANCES IN DIFFERENCE EQUATIONS, SCI Journal, July 2011

DIFFERENTIAL EQUATIONS & APPLICATIONS, Journal Indexed in ESCI, April 2011

KRAGUJEVAC JOURNAL OF MATHEMATICS, Journal Indexed in ESCI, July 2010

Scientific Consultations

Doktora Tezi Değerlendirme Komitesi Üyeliği-NUST-School of Natural Sciences (SNS)-Pakistan, Other, Gazi University, Fen Fakültesi, Matematik, Turkey, 2021 - 2021

Tasks In Event Organizations

Aktaş M. F., Mısır A., International Workshop on Dynamical Systems and Applications: In Memory of Prof. Dr. Aydın Tiryaki (IWDSA 2019), Workshop Organization, Ankara, Turkey, Mayıs 2019

Aktaş M. F., The 14th International Workshop on Dynamical Systems and Applications (IWDSA 2015), Workshop Organization, Ankara, Turkey, Haziran 2015

Aktaş M. F., The 12th International Workshop on Dynamical Systems and Applications (IWDSA 2013), Workshop Organization, Ankara, Turkey, Ağustos 2013

Aktaş M. F., The 11th International Workshop on Dynamical Systems and Applications (IWDSA 2012), Workshop Organization, Ankara, Turkey, Haziran 2012

Metrics

Publication: 44
Citation (WoS): 249
Citation (Scopus): 296
H-Index (WoS): 9
H-Index (Scopus): 10

Non Academic Experience

Florida Universitesi Florida Teknoloji Enstitüsü