

Prof. MUSTAFA FAHRİ AKTAŞ

Personal Information

Office Phone: [+90 312 202 1064](tel:+903122021064)

Email: mfahri@gazi.edu.tr

Web: <https://avesis.gazi.edu.tr/mfahri>

Address: Gazi Üniversitesi Fen Fakültesi Matematik Bölümü

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 Aydın 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

Post Graduate, Gazi University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), Turkey 2001 - 2003

Under Graduate, 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

Post Graduate, İkinci basamaktan bir denklem sınıfının çözümlerinin salınımlığı üzerine, Gazi University, Fen Bilimleri Enstitüsü, Matematik (YI) (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, Natural Sciences

Academic Titles / Tasks

Professor, Gazi University, Fen Fakültesi, Matematik Bölümü, 2019 - Continues

Associate Professor, Gazi University, Fen Fakültesi, Matematik Bölümü, 2015 - 2019

Associate Professor, Florida Üniversitesi, İngilizce Dil Enstitüsü, 2016 - 2016

Assistant Professor, Gazi University, Fen Fakültesi, Matematik Bölümü, 2009 - 2014

Research Assistant, Gazi University, Fen Fakültesi, Matematik Bölümü, 2002 - 2009

Research Assistant, Florida Institute of Technology, 2008 - 2008

Professional Experience

Bölüm Kalite Komisyonu Başkanı, Gazi University, Fen Fakültesi, Matematik, 2020 - 2020

Deputy Head of Department, Gazi University, Fen Fakültesi, Matematik Bölümü, 2014 - 2015

Mevlana Exchange Program Coordinator, Gazi University, Fen Fakültesi, Matematik Bölümü, 2013 - 2014

Erasmus Coordinator, Gazi University, Fen Fakültesi, Matematik Bölümü, 2012 - 2014

Courses

Fark Denklemlerine Giriş I, Under Graduate, 2017 - 2018

Kompleks Analiz II, Under Graduate, 2017 - 2018

Diferansiyel Denklemlerin Kararlılığı, Doctorate, 2017 - 2018

Başlangıç ve Sınır Değer Problemleri, Doctorate, 2016 - 2017, 2017 - 2018

Fourier Analiz, Under Graduate, 2017 - 2018

Fonksiyonel Analiz I, Under Graduate, 2017 - 2018

Kısmi Türevli Diferensiyel Denklemler II, Under Graduate, 2017 - 2018

Analiz I, Under Graduate, 2017 - 2018

Özel Fonksiyonlar, Under Graduate, 2017 - 2018

Analiz II, Under Graduate, 2016 - 2017, 2017 - 2018

Kompleks Analiz I, Under Graduate, 2017 - 2018

Uygulamalı Matematik I, Under Graduate, 2017 - 2018

Kısmi Türevli Diferensiyel Denklemler I, Under Graduate, 2017 - 2018

Uygulamalı Matematik II, Under Graduate, 2016 - 2017

Diferansiyel Denklemlerin Nümerik Çözümleri, Under Graduate, 2016 - 2017

Green Fonksiyonları, Doctorate, 2016 - 2017

Adi Diferansiyel Denklemlerin Nümerik Çözümleri, Under Graduate, 2016 - 2017

Bilişim Teknolojileri Temelleri, Under Graduate, 2016 - 2017

Temel Matematik, Under Graduate, 2016 - 2017

Advising Theses

AKTAŞ M. F. , The Behaviors Of The Principal And Nonprincipal Solutions, Post Graduate, A.QAROOT(Student), 2015

AKTAŞ M. F. , Oscillation Of Third Order Dİfferential Equations, Post Graduate, A.AHMETOĞLU(Student), 2015

AKTAŞ M. F. , Lyapunov Type Inequalities For Systems, M.ARITÜRK(Student), 2015

AKTAŞ M. F. , Lyapunov type inequalities for systems, Post Graduate, M.ARITÜRK(Student), 2015

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

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

I. Periodic solutions of relativistic Lienard-type equations

Aktas M. F.

ELECTRONIC JOURNAL OF QUALITATIVE THEORY OF DIFFERENTIAL EQUATIONS, no.38, pp.1-12, 2020 (Journal Indexed in SCI)

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

AKTAŞ M. F. , ÇAKMAK D., AHMETOĞLU A.

JOURNAL OF INEQUALITIES AND APPLICATIONS, 2019 (Journal Indexed in SCI)

- III. **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 (Journal Indexed in SCI)
- IV. **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 (Journal Indexed in SCI)
- V. **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 (Journal Indexed in SCI)
- VI. **LYAPUNOV-TYPE INEQUALITIES FOR THIRD-ORDER LINEAR DIFFERENTIAL EQUATIONS**
AKTAŞ M. F. , ÇAKMAK D.
ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS, 2017 (Journal Indexed in SCI)
- VII. **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 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)
- IX. **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 (Journal Indexed in SCI)
- X. **On the multivariate Lyapunov inequalities**
AKTAŞ M. F.
APPLIED MATHEMATICS AND COMPUTATION, vol.232, pp.784-786, 2014 (Journal Indexed in SCI)
- XI. **LYAPUNOV-TYPE INEQUALITIES FOR NONLINEAR SYSTEMS INVOLVING THE $(p(1), p(2), \dots, p(n))$ -LAPLACIAN**
ÇAKMAK D., AKTAŞ M. F. , Tiryaki A.
ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS, 2013 (Journal Indexed in SCI)
- XII. **LYAPUNOV-TYPE INEQUALITIES FOR n-DIMENSIONAL QUASILINEAR SYSTEMS**
AKTAŞ M. F.
ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS, 2013 (Journal Indexed in SCI)
- XIII. **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 (Journal Indexed in SCI)
- XIV. **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 (Journal Indexed in SCI)
- XV. **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 (Journal Indexed in SCI)
- XVI. **On the qualitative behaviors of solutions of third-order nonlinear functional differential equations**
AKTAŞ M. F. , ÇAKMAK D., Tiryaki A.
APPLIED MATHEMATICS LETTERS, vol.24, no.11, pp.1849-1855, 2011 (Journal Indexed in SCI)
- XVII. **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 (Journal Indexed in SCI)
- XVIII. **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 (Journal Indexed in SCI)
- XIX. **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 (Journal Indexed in SCI)
- XX. **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 (Journal Indexed in SCI)
- XXI. **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 (Journal Indexed in SCI)

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 (Journal Indexed in 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 (Journal Indexed in 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 (Journal Indexed in ESCI)
- IV. **Oscillation criteria for a class of third-order nonlinear delay differential equations**
AKTAŞ M. F.
Further Progress in Analysis (Tam Metin Bildiri), pp.507-514, 2009 (Refereed Journals of Other Institutions)
- 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 (Refereed Journals of Other Institutions)
- 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 (Refereed Journals of Other Institutions)

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.

Citations

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