Assoc. Prof. ÜMİT ÇAKAN

Personal Information

Office Phone: +90 422 377 3000 Extension: 4243

Email: umit.cakan@inonu.edu.tr

Web: https://inonu.edu.tr/umit.cakan

International Researcher IDs
ScholarID: VGT6ERwAAAAJ
ORCID: 0000-0002-9766-5863
Publons / Web Of Science ResearcherID: ABH-4295-2020
ScopusID: 55793739700
Yoksis Researcher ID: 41816

Education Information

Doctorate, Inonu University, Fen Bilimleri Enstitüsü, Matematik, Turkey 2011 - 2015

Postgraduate, Firat University, Institute Of Science, Matematik, Turkey 2009 - 2011

Undergraduate, Inonu University, Fen Edebiyat Fakültesi, Matematik, Turkey 2005 - 2009

Foreign Languages

English, B1 Intermediate

Dissertations

Doctorate, Lineer olmayan bazı integral denklemlerin çözümlerine ilişkin varlık teoremleri, Inonu University, Fen Bilimleri Enstitüsü, Matematik (Dr), 2015

Postgraduate, Fuzzy sayı dizilerinin istatistiksel yakınsaklığı, Firat University, Fen Bilimleri Enstitüsü, Analiz Ve Fonksiyonlar Teorisi (Yl) (Tezli), 2011

Research Areas

Mathematics, Functional Analysis, Integral Equations, Natural Sciences

Academic Titles / Tasks

Associate Professor, Inonu University, Fen-Edebiyat Fakültesi, Matematik, 2022 - Continues

Assistant Professor, Inonu University, Fen-Edebiyat Fakültesi, Matematik, 2018 - 2022

Assistant Professor, Inonu University, Fen-Edebiyat Fakültesi, Matematik, 2015 - 2018

Research Assistant, Nevsehir Haci Bektas Veli University, Fen Edebiyat Fakültesi, Matematik, 2011 - 2015

Academic and Administrative Experience

Deputy Head of Department, Inonu University, Fen-Edebiyat Fakültesi, Matematik, 2020 - Continues

Courses

Matematik, Undergraduate, 2021 - 2022, 2020 - 2021
Uzmanlık Alan Dersi, Postgraduate, 2021 - 2022, 2020 - 2021
İleri Matematik II, Undergraduate, 2021 - 2022
Reel Analiz II, Undergraduate, 2021 - 2022, 2020 - 2021
Functional Anlysis II, Undergraduate, 2021 - 2022
Tez Yönetimi, Postgraduate, 2021 - 2022, 2020 - 2021
Bitirme Çalışması, Undergraduate, 2021 - 2022, 2020 - 2021
Bitirme Çalışması, Undergraduate, 2021 - 2022, 2020 - 2021
Functional Anlysis I, Undergraduate, 2021 - 2022
Finans Matematiği, Associate Degree, 2021 - 2022
Reel Analiz I, Undergraduate, 2021 - 2022, 2020 - 2021
Matematik, Associate Degree, 2021 - 2022, 2020 - 2021
Reel Analiz II, Undergraduate, 2020-2021
Nonlineer Fonksiyonel Analiz I, Undergraduate Double Major, 2020-2021
Matematik (Sağlık Bil. Fak), Undergraduate, 2020-2021
Reel Analiz I, Undergraduate, 2020-2021
Matematik, Associate Degree, 2020-2021
Nonlineer Fonksiyonel Analiz I, Undergraduate Double Major, 2019-2020
Reel Analiz I, Undergraduate, 2019-2020
Nonlineer Fonksiyonel Analiz II, Undergraduate Double Major, 2019-2020
Matematik (İnşaat Tekn.), Associate Degree, 2019-2020
Matematik (Sağlık Bil. Fak), Undergraduate, 2019-2020
Matematik (Elektrik Tekn.), Associate Degree, 2019-2020
İstatistik, Associate Degree, 2019-2020
Reel Analiz II, Undergraduate, 2019-2020
Genel Matematik I (Mühendislik Fak.), Undergraduate, 2019-2020
Nonlineer Fonksiyonel Analiz I, Undergraduate Double Major, 2018-2019
Matematik, Associate Degree, 2018-2019
Analiz III, Undergraduate, 2018-2019
Genel Matematik (İİBF), Undergraduate, 2018-2019
Reel Analiz I, Undergraduate, 2018-2019
Nonlineer Fonksiyonel Analiz II, Undergraduate Double Major, 2017-2018
Nonlineer Fonksiyonel Analiz I, Undergraduate Double Major, 2017-2018
Matematik, Associate Degree, 2017-2018
Reel Analiz II, Undergraduate, 2016 - 2017
İstatistik, Associate Degree, 2017-2018
Mesleki Matematik II, Associate Degree, 2017-2018
Analiz III, Undergraduate, 2017-2018
Nonlineer Fonksiyonel Analiz II, Postgraduate, 2016 - 2017
Reel Analiz II, Undergraduate, 2017-2018
İstatistik, Associate Degree, 2016 - 2017
Mesleki Matematik, Associate Degree, 2016 - 2017
Matematik I (Özel Güvenlik), Associate Degree, 2017-2018
Reel Analiz I, Undergraduate, 2017-2018

Analiz III, Undergraduate, 2016 - 2017

Reel Analiz I, Undergraduate, 2016 - 2017

Ticari-Mali Matematik, Undergraduate, 2016 - 2017

Nonlineer Fonksiyonel Analiz I, Postgraduate, 2016 - 2017

Matematik (Bilg. Tekn.), Associate Degree, 2016-2017

Mesleki Matematik II, Associate Degree, 2016-2017

Nonlineer Fonksiyonel Analiz I, Undergraduate Double Major, 2016-2017

Nonlineer Fonksiyonel Analiz II, Undergraduate Double Major, 2016-2017

İstatistik (Pazarlama), Associate Degree, 2016-2017

Matematik I (Muhasebe ve Vergi Uyg.), Associate Degree, 2016-2017

Reel Analiz I, Undergraduate, 2016-2017

Analiz III, Undergraduate, 2016-2017

Ticari-Mali Matematik (İİBF), Undergraduate, 2016-2017

Reel Analiz II, Undergraduate, 2016-2017

Reel Analiz II, Undergraduate, 2015-2016

Mesleki Matematik II, Associate Degree, 2015-2016

İstatistik, Associate Degree, 2015-2016

Mesleki Matematik, Associate Degree, 2015-2016

Advising Theses

Çakan Ü., Epidemiyolojide bazı matematiksel modeller ve analizi, Postgraduate, E.LAZ(Student), 2021

Çakan Ü., Bazı İnterval Değerli Fonksiyon Sınıfları Üzerine, Postgraduate, Ö.Faruk(Student), 2019

Jury Memberships

Doctorate, KSÜ Fen Bilmleri Enstitüsü, KSÜ Fen Bilmleri Enstitüsü, October, 2019

Academic Staff Examination, Öğretim Görevliliği , İnönü Üniversitesi Doğanşehir MYO, May, 2016

Published journal articles indexed by SCI, SSCI, and AHCI

I. **A Result on Solvability of Some Fractional Integro-differential Equations in Abstract Spaces**
ÇAKAN Ü.
BULLETIN OF THE IRANIAN MATHEMATICAL SOCIETY, 2019 (SCI-Expanded)

II. **Applications of Measure of Noncompactness and Darbo's Fixed Point Theorem to Nonlinear Integral Equations in Banach Spaces**
ÇAKAN Ü., Ozdemir I.
NUMERICAL FUNCTIONAL ANALYSIS AND OPTIMIZATION, vol.38, no.5, pp.641-673, 2017 (SCI-Expanded)

III. **ASYMPTOTIC STABILITY OF SOLUTIONS FOR A CLASS OF NONLINEAR FUNCTIONAL INTEGRAL EQUATIONS OF FRACTIONAL ORDER**
ÇAKAN Ü., OZDEMIR I.
STUDIA SCIENTIARUM MATHEMATICARUM HUNGARICA, vol.53, no.2, pp.256-288, 2016 (SCI-Expanded)

IV. **THE SOLVABILITY OF SOME NONLINEAR FUNCTIONAL INTEGRAL EQUATIONS**
OZDEMIR I., ÇAKAN Ü.
STUDIA SCIENTIARUM MATHEMATICARUM HUNGARICA, vol.53, no.1, pp.7-21, 2016 (SCI-Expanded)

V. **SOME CLASSES OF STATISTICALLY CONVERGENT SEQUENCES OF FUZZY NUMBERS GENERATED BY A MODULUS FUNCTION**
Cakan U., Altin Y.

IRANIAN JOURNAL OF FUZZY SYSTEMS, vol.12, no.3, pp.47-55, 2015 (SCI-Expanded)

VI. **AN APPLICATION OF DARBO FIXED- POINT THEOREM TO A CLASS OF FUNCTIONAL INTEGRAL EQUATIONS**
Cakan U., Ozdemir I.
NUMERICAL FUNCTIONAL ANALYSIS AND OPTIMIZATION, vol.36, no.1, pp.29-40, 2015 (SCI-Expanded)

VII. **Existence of nondecreasing solutions of some nonlinear integral equations of fractional order**
Cakan U., Ozdemir I.
JOURNAL OF NONLINEAR SCIENCES AND APPLICATIONS, vol.8, no.6, pp.1112-1126, 2015 (SCI-Expanded)

VIII. **On the Existence of the Solutions for Some Nonlinear Volterra Integral Equations**
OZDEMIR I., Cakan U., ILHAN B.
ABSTRACT AND APPLIED ANALYSIS, 2013 (SCI-Expanded)

Articles Published in Other Journals

I. **Salgın Hastalıkların Yayılmasında Yüksek Riskli Bireylerin Dikkate Alındığı Bir Matematiksel Modelin Analizi (Analysis of a Mathematical Model in which the High Risk Individuals is Considered in Spread of Epidemic Diseases)**
ÇAKAN Ü.
Journal of Polytechnic, vol.24, no.3, pp.1205-1211, 2021 (ESCI)

II. **Stability analysis of a mathematical model SI_{u}I_{a}QR for COVID-19 with the effect of contamination control (filiation) strategy**
ÇAKAN Ü.
Fundamental Journal of Mathematics and Applications, vol.4, no.2, pp.110-123, 2021 (Peer-Reviewed Journal)

III. **On the stability analysis of solutions of an integral equation with an application in epidemiology**
ÇAKAN Ü.
Mathematics in Natural Science, vol.7, no.1, pp.16-25, 2021 (Peer-Reviewed Journal)

IV. **On monotonic solutions of some nonlinear fractional integral equations**
ÇAKAN Ü.
Nonlinear Functional Analysis and Applications, vol.22, no.2, pp.259-273, 2017 (Scopus)

V. **On Solvability of Some Nonlinear Fractional Interval Integral Equations**
ÇAKAN S., ÇAKAN Ü.
Fractional Differential Calculus, vol.2017, no.7, pp.235-246, 2017 (Peer-Reviewed Journal)

VI. **On the solutions of a class of nonlinear functional integral quations in space C 0 a**
ÇAKAN Ü., OZDEMIR I.
Journal of Mathmatics and Appllications, vol.38, pp.115-124, 2015 (Peer-Reviewed Journal)

VII. **An Application of Krasnoselskii Fixed Point Theorem to Some Nonlinear Functional Integral Equations**
ÇAKAN Ü., OZDEMIR I.
Nevşehir Bilim ve Teknoloji Dergisi, vol.3, no.2, pp.66-73, 2014 (Peer-Reviewed Journal)

VIII. **On the Solutions of a Class of Nonlinear Integral Equations in the Banach Algebra of the Continuous Functions and Some Examples**
ILHAN B., OZDEMIR I., ÇAKAN Ü.
Annals of West University of Timisoara - Mathematics, vol.52, no.1, pp.121-140, 2014 (Peer-Reviewed Journal)

IX. **An application of the measure of noncompactness to somenonlinear functional integral equations in space C[0,a]**
ÇAKAN Ü., OZDEMIR I.
Advances in Mathematical Sciences andApplications, vol.23, no.2, pp.575-584, 2013 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **A mathematical model with two susceptible compartments in population dynamics**
ÇAKAN Ü.
2nd International Eurasian Conference on Science, Engineering and Technology (EurasianSciEnTech 2020),
Gaziantep, Turkey, 7 - 09 October 2020

II. **A mathematical SVEIR model considered the effect of different vaccination rate to subcompartments of susceptibles**
Çakan Ü.
3rd International Conference on Pure and Applied Mathematics-2020, Van, Turkey, 3 - 05 September 2020, pp.51

III. **A MATHEMATICAL MODEL OF SPREAD OF INFECTIOUS DISEASES**
ÇAKAN Ü.
III. ULUSLARARASI BATTALGAZİ BİLİMSEL ÇALIŞMALAR KONGRESİ, Malatya, Turkey, 21 - 23 September 2019

IV. **STABILITY ANALYSIS OF A DISTRIBUTED DELAY EPIDEMIC MODEL**
ÇAKAN Ü.
III. ULUSLARARASI BATTALGAZİ BİLİMSEL ÇALIŞMALAR KONGRESİ, Malatya, Turkey, 21 - 23 September 2019

V. **Functional interval integral equations of fractional order**
ÇAKAN S., ÇAKAN Ü.
Caucasian Mathematics Conference (CMC-II), Yüzüncü Yıl University, Van, 22-24 August 2017., 22 August 2017

VI. **On the solutions of a class of nonlinear functional integral equations in space C[0,a]**
ÖZDEMİR İ., ÇAKAN Ü.
International Conference on Mathematics and Mathematics Education(ICMME-2017), Şanlıurfa, Turkey, 11 - 13 May 2017

VII. **On Solvability Of Some Nonlinear Fractional Interval Integral Equations**
ÇAKAN S., ÇAKAN Ü.
International Conference on Mathematics and Mathematics Education (ICMME-2017), Harran University, Şanlıurfa, 11-13 May 2017., 11 May 2017

VIII. **Existence of nondecreasing solutions of some nonlinear integral equations of fractional order**
ÇAKAN Ü., ÖZDEMİR İ.
International Conference on Mathematics and Mathematics Education (ICMME-2016), Elazığ, Turkey, 12 - 14 May 2016

IX. **On Monotonic Solutions of Some Nonlinear Fractional IntegralEquations**
ÇAKAN Ü.
International Conference on Mathematics and Mathematics Education (ICMME-2016), Elazığ, Turkey, 12 - 14 May 2016

X. **On the solutions of a class of some nonlinear integral equations in the Banach algebra of the continuous functions and some examples**
ÖZDEMİR İ., BEKİR İ., ÇAKAN Ü.
KARATEKİN MATHEMATICS DAYS 2014, Çankırı, Turkey, 11 - 13 June 2014

XI. **An application of the measure of noncompactness to some nonlinear functional integral equations in space C [0,a]**
ÇAKAN Ü., ÖZDEMİR İ.
KARATEKİN MATHEMATICS DAYS 2014, Çankırı, Turkey, 11 - 13 June 2014

XII. **Krasnoselskii Sabit Nokta Teoreminin Lineer Olmayan Bazı Fonksiyonel İntegral Denklemlere Uygulaması**
ÇAKAN Ü., ÖZDEMİR İ.
14. Matematik Sempozyumu, Niğde, Turkey, 14 - 16 May 2015

XIII. **On the existence of the solutions for some nonlinear volterra integral equations**
ÖZDEMİR İ., ÇAKAN Ü., BEKİR İ.
2nd INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS, Sarajevo, Bosnia And Herzegovina, 26 - 29 August 2013

Supported Projects

ÇAKAN Ü., LAZ E., Project Supported by Higher Education Institutions, Epidemiyolojide Bazı Matematiksel Modellemeler ve Analizi, 2020 - 2021

Scientific Refereeing

Journal of Science and Arts, Other Indexed Journal, November 2021
CELAL BAYAR ÜNİVERSİTESİ FEN BİLİMLERİ DERGİSİ, National Scientific Refreed Journal, September 2021
Advances in Difference Equations, SCI Journal, November 2019
Journal of Mathematics and Application, Other Indexed Journal, August 2019
Numerical Functional Analysis and Optimization, SCI Journal, March 2019
Iranian Journal of Fuzzy Systems, SCI Journal, July 2018
Journal of Mathematical Extension, Other Indexed Journal, May 2018
Journal of Numerical Analysis, Industrial and Applied Mathematics, Other Indexed Journal, May 2017
Gümüşhane Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, May 2017

Metrics

Publication: 30
Citation (WoS): 31
Citation (Scopus): 34
H-Index (WoS): 4
H-Index (Scopus): 3

Congress and Symposium Activities

III. Battalgazi Bilimsel Çalışmalar Kongresi, Attendee, Malatya, Turkey, 2019
III. Battalgazi Bilimsel Çalışmalar Kongresi, Attendee, Turkey, 2019
Caucasian Mathematics Conference-CMC II, Attendee, Van, Turkey, 2017
International Conference on Mathematics and Mathematics Education(ICMME - 2017), Attendee, Şanlıurfa, Turkey, 2017
International Conference on Mathematics and Mathematics Education (ICMME - 2017), Attendee, Şanlıurfa, Turkey, 2017
International Conference on Mathematics and Mathematics Education, Attendee, Turkey, 2016
International Conference on Mathematics and Mathematics Education, Attendee, Elazığ, Turkey, 2016
14. Matematik Sempozyumu, Attendee, Niğde, Turkey, 2015
KARATEKİN MATHEMATICS DAYS 2014, Attendee, Çankırı, Turkey, 2014
KARATEKİN MATHEMATICS DAYS 2014, Attendee, Çankırı, Turkey, 2014
2nd INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS, Attendee, Sarajevo, Bosnia And Herzegovina, 2013