



## Personal Information

**Office Phone:** [+90 422 377 3000](tel:+904223773000) Extension: 4243

**Email:** [umit.cakan@inonu.edu.tr](mailto: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 (YI) (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, Nevşehir Hacı Bektaş 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  
Nonlinear 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  
Nonlinear Fonksiyonel Analiz I, Undergraduate Double Major, 2019-2020  
Reel Analiz I, Undergraduate, 2019-2020  
Nonlinear 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  
Nonlinear 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  
Nonlinear Fonksiyonel Analiz II, Undergraduate Double Major, 2017-2018  
Nonlinear 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  
Nonlinear 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  
Nonlinear Fonksiyonel Analiz I, Postgraduate, 2016 - 2017  
Matematik (Bilg. Tekn.), Associate Degree, 2016-2017  
Mesleki Matematik II, Associate Degree, 2016-2017  
Nonlinear Fonksiyonel Analiz I, Undergraduate Double Major, 2016-2017  
Nonlinear 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 Bilimleri Enstitüsü, KSÜ Fen Bilimleri 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 equations in space  $C[0, a]$**   
ÇAKAN Ü., OZDEMIR I.  
Journal of Mathematics and Applications, 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 some nonlinear functional integral equations in space  $C[0, a]$**   
ÇAKAN Ü., OZDEMIR I.  
Advances in Mathematical Sciences and Applications, 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 Integral Equations**  
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