

Res. Asst. PhD ERCAN BALCI

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: JAN-8699-2023

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Education Information

Doctorate, Erciyes University, Fen Bilimleri Enstitüsü, Matematik, Turkey 2016 - 2022

Postgraduate, Galatasaray University, Fen Bilimleri Enstitüsü, Matematik, Turkey 2013 - 2016

Undergraduate, Galatasaray University, Fen-Edebiyat Fakültesi, Matematik, Turkey 2007 - 2013

Foreign Languages

English, C1 Advanced

French, B1 Intermediate

Dissertations

Postgraduate, Singularities, Sails and Kites (Tekillikler, Yelkenler ve Uçurtmalar), Galatasaray Üniversitesi, Fen Bilimleri Enstitüsü, Matematik, 2016

Research Areas

Mathematics, Natural Sciences

Academic Titles / Tasks

Research Assistant PhD, Erciyes University, Fen Bilimleri Enstitüsü, -, 2022 - Continues

Research Assistant, Erciyes University, Fen Bilimleri Enstitüsü, -, 2016 - 2022

Courses

ENGINEERING MATHEMATICS, Undergraduate, 2023 - 2024, 2022 - 2023

Differential Equations, Undergraduate, 2023 - 2024

Differential Equations, Undergraduate, 2023 - 2024

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Predator-incited fear weakened by infertility of prey in a prey–predator model with memory effect**
Balci E., Çizmeci H., Kartal S., Öztürk İ.
INTERNATIONAL JOURNAL OF BIOMATHEMATICS, vol.2024, pp.1-16, 2024 (SCI-Expanded)
- II. **Predation fear and its carry-over effect in a fractional order prey-predator model with prey refuge**
Balci E.
CHAOS SOLITONS & FRACTALS, vol.175, 2023 (SCI-Expanded)
- III. **Comparison of dynamical behavior between fractional order delayed and discrete conformable fractional order tumor-immune system**
Balci E., Kartal Ş., Öztürk İ.
Mathematical Modelling Of Natural Phenomena, vol.16, no.3, pp.1-21, 2021 (SCI-Expanded)
- IV. **Dynamical behaviour of fractional order tumor model with Caputo and conformable fractional derivative**
Balci E., Öztürk İ., Kartal S.
Chaos, Solitons and Fractals, vol.123, pp.43-51, 2019 (SCI-Expanded)

Articles Published in Other Journals

- I. **Dynamical Analysis of a Local Lengley-Epstein System Coupled with Fractional Delayed Differential Equations**
Balci E.
Journal of mathematical sciences and modelling (Online), vol.6, no.2, pp.56-64, 2023 (Peer-Reviewed Journal)
- II. **Fractional Order Turbidostat Model with the Discrete Delay of Digestion**
Balci E., Kartal S., Öztürk İ.
International Journal of Applied and Computational Mathematics, vol.6, 2020 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **Dynamical Analysis of a Prey-Predator Model Including Fear, Its Carry-Over Effect and Allee Effect with Memory Effect**
Karakaya H., Balci E.
International Conference on Mathematics and Mathematics Education (ICMME-2024), Nevşehir, Turkey, 3 - 05 October 2024, vol.1, pp.107-108
- II. **A fractional prey-predator model with functional carrying capacity**
Balci E.
International Conference on Mathematics and Mathematics Education (ICMME 2024)), Nevşehir, Turkey, 3 - 05 October 2024, vol.1, pp.80-81
- III. **COMPLEX DYNAMICS OF PREY-PREDATOR INTERACTIONS WITH REVISED FEAR TERM**
Karakaya H., Balci E.
6. INTERNATIONAL CAPPADOCIA SCIENTIFIC RESEARCH CONGRESS, Nevşehir, Turkey, 10 - 12 August 2024, vol.1, pp.819-820
- IV. **FRACTIONAL PREY-PREDATOR MODEL WITH LINEAR FUNCTIONAL RESPONSE, PREY REFUGE, FEAR AND CARRY-OVER EFFECT**
Balci E.

IFSCOM-E 2023 International IFS and Contemporary Mathematics and Engineering Conference, Mersin, Turkey, 8 - 11 July 2023, vol.2, pp.109-116

V. Flip Bifurcation Analysis in a Discrete Bacteria Population Model

Balci E., Kartal Ş.

5Th INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN PURE AND APPLIED MATHEMATICS (ICRAPAM 2018), Trabzon, Turkey, 23 - 27 July 2018, vol.1, no.1, pp.38

VI. Dynamical behaviour of fractional order tumor model with Caputo and conformable fractional derivative

Öztürk I., Balci E., Kartal Ş.

International Conference on Mathematics and Mathematics Education (ICMME 2019), Konya, Turkey, 11 - 13 July 2019, vol.1, no.1, pp.114-115

Supported Projects

ÖZTÜRK İ., BALCI E., Project Supported by Higher Education Institutions, KESİRSEL MERTEBEDEN BAZI TÜMÖR-BAĞIŞIKLIK MATEMATİKSEL MODELLERİ ve KARARLILIK ANALİZLERİ, 2018 - 2023

Scientific Refereeing

INTERNATIONAL JOURNAL OF MODELING SIMULATION AND SCIENTIFIC COMPUTING, Journal Indexed in ESCI, June 2021

INTERNATIONAL JOURNAL OF MODELING SIMULATION AND SCIENTIFIC COMPUTING, Journal Indexed in ESCI, May 2021

CHAOS SOLITONS & FRACTALS, SCI Journal, January 2020

CHAOS SOLITONS & FRACTALS, SCI Journal, December 2019

Metrics

Publication: 13

Citation (WoS): 46

Citation (Scopus): 52

H-Index (WoS): 3

H-Index (Scopus): 3

Congress and Symposium Activities

ICRAPAM 2018, Attendee, Trabzon, Turkey, 2018