

Prof. Canan ÇELİK KARAASLANLI

Personal Information

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International Researcher IDs

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Education Information

Post Doctorate, Tufts University, College Of Art And Sciences, Mathematics, United States Of America 2001 - 2004

Doctorate, Michigan State University, College Of Art And Sciences, Mathematics, United States Of America 1996 - 2001

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Matematik, Turkey 1991 - 1993

Undergraduate, Middle East Technical University, Fen Edebiyat Fakültesi, Matematik, Turkey 1986 - 1991

Dissertations

Doctorate, Solutions to a Nonlinear Heat Equation with Critical Exponent, Michigan State University, Mathematics, 2001

Postgraduate, Numerical Solutions of Hamiltonian Systems in Normal Form., Orta Doğu Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Matematik, 1993

Research Areas

Mathematics, Differential Equations, Natural Sciences

Academic Titles / Tasks

Professor, Yıldız Technical University, Fen Edebiyat Fakültesi, Matematik, 2017 - Continues

Professor, Bahçesehir University, Fen Edebiyat Fakültesi, Matematik, 2014 - 2017

Associate Professor, Bahçesehir University, Fen Edebiyat Fakültesi, Matematik, 2009 - 2014

Associate Professor, Tobb University Of Economics And Technology, Fen Edebiyat Fakültesi, Matematik, 2009 - 2009

Associate Professor, Tobb University Of Economics And Technology, Fen Edebiyat Fakültesi, Matematik, 2009 - 2009

Assistant Professor, Tobb University Of Economics And Technology, Fen Edebiyat Fakültesi, Matematik, 2005 - 2009

Assistant Professor, Tufts University, School Of Arts And Sciences, Mathematics, 2001 - 2005

Research Assistant, Michigan State University, College Of Arts And Sciences, Mathematics, 1997 - 2001

Research Assistant, Middle East Technical University, Fen Edebiyat Fakültesi, Matematik, 1991 - 1995

Academic and Administrative Experience

Bahçeşehir Üniversitesi, 2015 - 2017

Bahçeşehir Üniversitesi, 2014 - 2017

Bahçeşehir Üniversitesi, 2014 - 2017

Bahçeşehir Üniversitesi, Fen Edebiyat Fakültesi, Matematik, 2014 - 2017

Bahçeşehir Üniversitesi, Fen Bilimleri Enstitüsü, Matematik Ve Uygulamalı Matematik Anabilim Dalı, 2014 - 2017

Tobb Ekonomi Ve Teknoloji Üniversitesi, Fen Edebiyat Fakültesi, Matematik, 2009 - 2009

Advising Theses

ÇELİK KARAASLANLI C., Reaksiyon Difüzyon Denklemleri için Hopf çatallanma ve Kararlılık Analizi, Doctorate, E.Özmen(Student), Continues

ÇELİK KARAASLANLI C., Bir Tümör-Bağışıklık Modeli için Hopf Çatallanma ve Kararlılık Analizi, Postgraduate, V.Kılıç(Student), 2014

ÇELİK KARAASLANLI C., Sinir Ağları Modellerinin Matematiksel Analizi, Postgraduate, G.Çebi(Student), 2014

ÇELİK KARAASLANLI C., Holling-Tanner tipi bir Av-Avcı Modeli için Hopf Çatallanma ve Kararlılık Analizi, Postgraduate, E.Özmen(Student), 2012

ÇELİK KARAASLANLI C., Genel Gecikmeli bir Diferansiyel Denklemin Hopf Çatallanma Analizi, Postgraduate, H.Akçaoğlu(Student), 2011

ÇELİK KARAASLANLI C., Dağılımlı Av-Avcı Sisteminde Hopf Çatallanma ve Kararlılık Analizi, Postgraduate, E.Değirmenci(Student), 2011

ÇELİK KARAASLANLI C., Gecikmeli Av-Avcı Sistemlerinde Hopf Çatallanma ve Kararlılık Analizi, Postgraduate, G.Çekiç(Student), 2009

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Implicit fractional differential equations: Existence of a solution revisited**
Çelik C., DEVELİ F.
Mathematical Methods in the Applied Sciences, vol.47, no.6, pp.5090-5097, 2024 (SCI-Expanded)
- II. **On the stability analysis of Darboux problem on both bounded and unbounded domains**
Çelik C., DEVELİ F.
Applications of Mathematics, vol.69, no.1, pp.139-150, 2024 (SCI-Expanded)
- III. **A new proof of Hartman and Winter's theorem**
Develi F., Çelik C.
JOURNAL OF FIXED POINT THEORY AND APPLICATIONS, vol.25, pp.1-6, 2023 (SCI-Expanded)
- IV. **Existence and Hyers-Ulam stability of solutions for a delayed hyperbolic partial differential equation**
Celik C., Develi F.
PERIODICA MATHEMATICA HUNGARICA, vol.84, no.2, pp.211-220, 2022 (SCI-Expanded)
- V. **HOPF BIFURCATION ANALYSIS OF A FRACTIONAL-ORDER HOLLING-TANNER PREDATOR-PREY MODEL WITH TIME DELAY**
Celik C., Degerli K.
ANZIAM JOURNAL, vol.64, no.1, pp.23-39, 2022 (SCI-Expanded)
- VI. **EXISTENCE OF PERIODIC SOLUTION FOR A TUMOR GROWTH MODEL WITH VACCINE INTERACTION**
ÇELİK KARAASLANLI C., Ozarslan N. T.
TOPOLOGICAL METHODS IN NONLINEAR ANALYSIS, vol.55, no.1, pp.37-49, 2020 (SCI-Expanded)
- VII. **Bifurcation analysis of a logistic predator-prey system with delay**
Celik C., Cekic G.
ANZIAM Journal, vol.57, no.4, pp.445-460, 2016 (SCI-Expanded)
- VIII. **Stability and Hopf Bifurcation in a delayed ratio dependent Holling-Tanner type model**
ÇELİK KARAASLANLI C.
Applied Mathematics and Computation, vol.255, pp.228-237, 2015 (SCI-Expanded)
- IX. **Hopf bifurcation analysis of a system of coupled delayed-differential equations**

- Celik C., Merdan H.
 APPLIED MATHEMATICS AND COMPUTATION, vol.219, no.12, pp.6605-6617, 2013 (SCI-Expanded)
- X. **Hopf bifurcation analysis of a general non-linear differential equation with delay**
 Akkocaoglu H., Merdan H., Celik C.
 JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.237, no.1, pp.565-575, 2013 (SCI-Expanded)
- XI. **Dynamical behavior of a ratio dependent predator-prey system with distributed delay**
 Celik C.
 Discrete and Continuous Dynamical Systems - Series B, vol.16, no.3, pp.719-738, 2011 (SCI-Expanded)
- XII. **Hopf bifurcation of a ratio-dependent predator-prey system with time delay**
 Celik C.
 CHAOS SOLITONS & FRACTALS, vol.42, no.3, pp.1474-1484, 2009 (SCI-Expanded)
- XIII. **Allee effect in a discrete-time predator-prey system**
 Celik C., Duman O.
 CHAOS SOLITONS & FRACTALS, vol.40, no.4, pp.1956-1962, 2009 (SCI-Expanded)
- XIV. **Allee effects on population dynamics in continuous (overlapping) case**
 Merdan H., Duman O., Akin Ö., Çelik C.
 Chaos, Solitons and Fractals, vol.39, no.4, pp.1994-2001, 2009 (SCI-Expanded)
- XV. **Allee effects on population dynamics with delay**
 Celik C., Merdan H., Duman O., Akin O.
 CHAOS SOLITONS & FRACTALS, vol.37, no.1, pp.65-74, 2008 (SCI-Expanded)
- XVI. **The stability and Hopf bifurcation for a predator-prey system with time delay**
 Celik C.
 CHAOS SOLITONS & FRACTALS, vol.37, no.1, pp.87-99, 2008 (SCI-Expanded)
- XVII. **No local L-1 solution for a nonlinear heat equation**
 Celik C., Zhou Z.
 COMMUNICATIONS IN PARTIAL DIFFERENTIAL EQUATIONS, vol.28, pp.1807-1831, 2003 (SCI-Expanded)

Articles Published in Other Journals

- I. **Stability and hopf bifurcation of a predator-prey model with discrete and distributed delays**
 Çelik C., Degirmenci E.
 Journal of Applied Nonlinear Dynamics, vol.5, no.1, pp.73-91, 2016 (Scopus)
- II. **Dynamical Analysis of a Ratio Dependent Holling-Tanner Type Predator-Prey Model with Delay**
 Çelik Karaaslanlı C.
 Journal of Applied Functional Analysis, vol.8, no.1, pp.194-213, 2013 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **Solutions of Nonlinear Parabolic Differential Equations**
 Çelik Karaaslanlı C., Çelik Karaaslanlı C.
 LAP LAMBERT Academic Publishing, Bergisch Gladbach, 2012
- II. **Bifurcation Analysis and Its Applications**
 Çelik Karaaslanlı C.
 in: Numerical Simulation - From Theory to Industry, Mykhaylo Andriychuk, Editor, Intech, London, pp.3-34, 2012

Refereed Congress / Symposium Publications in Proceedings

- I. **Stability analysis of a population dynamics model with Allee effect**

Celik C.

World Congress on Engineering and Computer Science (WCECS 2007), San-Francisco, Costa Rica, 24 - 26 October 2007, pp.7-11

Supported Projects

ÇELİK KARAASLANLI C., DEVELİ F., Değerli K., DEMİR E., Project Supported by Higher Education Institutions, Kesirli Diferansiyel Denklemler için Varlık Teklik Kararlılık ve Hopf Çatallanma Analizi, 2023 - 2024

ÇELİK KARAASLANLI C., TUBITAK Project, Bir Kanser-Bağışıklık Modelinin İmmünoterapi Etkisi Altındaki Dinamiği, 2017 - 2018

Metrics

Publication: 22

Citation (WoS): 222

Citation (Scopus): 239

H-Index (WoS): 9

H-Index (Scopus): 9

Non Academic Experience

Bahçeşehir Üniversitesi

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