

Assoc. Prof. FİGEN KANGALGİL

Personal Information

Office Phone: [+90 232 632 1247](tel:+902326321247)

Fax Phone: [+90 232 631 1110](tel:+902326311110)

Email: figen.kangalgil@deu.edu.tr

Web: <https://avesis.deu.edu.tr/figen.kangalgil>

International Researcher IDs

ScholarID: BYq4QFsAAAAJ

ORCID: 0000-0003-0116-8553

Publons / Web Of Science ResearcherID: GYA-2119-2022

ScopusID: 24066871900

Yoksis Researcher ID: 56190

Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 2002 - 2008

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Turkey 1996 - 1999

Undergraduate, Ankara University, Fen Fakültesi, Matematik Bölümü, Turkey 1991 - 1995

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Painleve analizi ile bazı lineer olmayan kısmi türevli denklemlerin integrallenebilirliği ve soliton çözümleri üzerine, Gazi University, Fen Bilimleri Enstitüsü, Matematik (Dr), 2008

Postgraduate, Simetrik grupların gösterimleri, Ankara University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), 1999

Research Areas

Mathematics

Academic Titles / Tasks

Associate Professor, Dokuz Eylul University, Bergama Meslek Yüksekokulu, Yönetim ve Organizasyon Bölümü, 2019 - Continues

Assistant Professor, Sivas Cumhuriyet University, Fen Fakültesi, Matematik Bölümü, 2009 - 2019

Research Assistant, Gazi University, Fen Fakültesi, Matematik Bölümü, 2002 - 2008

Research Assistant, Sivas Cumhuriyet University, Fen-Edebiyat Fakültesi, Matematik Pr., 1999 - 2003

Research Assistant, Ankara University, Fen Fakültesi, Matematik Bölümü, 1998 - 1999

Research Assistant, Sivas Cumhuriyet University, Fen-Edebiyat Fakültesi, Matematik Pr., 1997 - 1998

Academic and Administrative Experience

Meslek Yüksekokulu Yönetim Kurulu Üyesi, Dokuz Eylül University, Bergama Meslek Yüksekokulu, Yönetim ve Organizasyon Bölümü, 2022 - Continues

Meslek Yüksekokulu Kurulu Üyesi, Dokuz Eylül University, Bergama Meslek Yüksekokulu, Yönetim ve Organizasyon Bölümü, 2020 - Continues

Head of Department, Dokuz Eylül University, Bergama Meslek Yüksekokulu, Yönetim ve Organizasyon Bölümü, 2020 - Continues

Director of Vocational School, Dokuz Eylül University, Bergama Meslek Yüksekokulu, 2021 - 2022

Meslek Yüksekokulu Yönetim Kurulu Üyesi, Dokuz Eylül University, Bergama Meslek Yüksekokulu, Yönetim ve Organizasyon Bölümü, 2020 - 2022

Assistant Director of Vocational School, Dokuz Eylül University, Bergama Meslek Yüksekokulu, Yönetim ve Organizasyon Bölümü, 2020 - 2021

Courses

Doctorate

MAT 6000 UZMANLIK ALAN, Doctorate, 2020 - 2021

UZMANLIK ALAN DERSİ, Doctorate, 2019 - 2020

Postgraduate

MAT 5000 UZMANLIK ALAN, Postgraduate, 2020 - 2021, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

UZMANLIK ALAN DERSİ, Postgraduate, 2019 - 2020

MAT5020 Fark Denklemleri I, Postgraduate, 2018 - 2019, 2016 - 2017, 2015 - 2016, 2014 - 2015

MAT5056 Matematiksel Biyoloji, Postgraduate, 2018 - 2019, 2017 - 2018, 2015 - 2016

MAT5999 Seminer, Postgraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2014 - 2015

MAT5021 Fark Denklemleri II, Postgraduate, 2014 - 2015

MAT5309 Fark Denklemleri I, Postgraduate, 2013 - 2014

Undergraduate

MAT 1010-MATEMATİK II, Undergraduate, 2024 - 2025, 2022 - 2023, 2021 - 2022

Mat 2011 Matematik III, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022

Engineering Mathematics, Undergraduate, 2024 - 2025

Calculus 1, Undergraduate, 2024 - 2025, 2023 - 2024

Calculus 2, Undergraduate, 2023 - 2024

Mat 1009 Matematik I, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023

MAT2011-MATEMATİK III, Undergraduate, 2023 - 2024

UBY 1012 İşletme Matematiği, Undergraduate, 2021 - 2022

UBY 1007-BİLGİSAYAR UYGULAMALARI, Undergraduate, 2022 - 2023

ANT 1012-MATEMATİK-IIÖ, Undergraduate, 2019 - 2020

ANT 1012-MATEMATİK-IÖ, Undergraduate, 2019 - 2020

MAT2217 Diferansiyel Denklemler (Geomatik), Undergraduate, 2018 - 2019

PFE4004 Öğretmenlik Uygulaması, Undergraduate, 2018 - 2019

GEO2008 Sayısal Analiz, Undergraduate, 2018 - 2019

MAT4000 Bitirme Tezi, Undergraduate, 2018 - 2019

MAT2217 Diferansiyel Denklemler (Makina), Undergraduate, 2018 - 2019

MAT3009 Nümerik Analiz, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011

MAT4024 Maple Proğlama Dili (Matematik), Undergraduate, 2017 - 2018

MAT1115 Genel Matematik (İnşaat Müh.), Undergraduate, 2017 - 2018

MAT2256 Mühendislik Matematiği İÖ (Otomotiv Müh.), Undergraduate, 2017 - 2018

MAT2217 Diferansiyel Denklemler (Bilgisayar Müh.), Undergraduate, 2017 - 2018
GEO2008 Sayısal Analiz (Geomatik Müh.), Undergraduate, 2017 - 2018, 2016 - 2017
MAT2217 Diferansiyel Denklemler (İnşaat Müh.), Undergraduate, 2016 - 2017
MAT2217 Diferansiyel Denklemler (Gıda Müh.), Undergraduate, 2016 - 2017
MAT2217 Diferansiyel Denklemler (Elektrik-Elektronik Müh.), Undergraduate, 2016 - 2017, 2015 - 2016
MAT1151 Genel Matematik-I (Gıda Müh), Undergraduate, 2015 - 2016
MAT1052 Genel Matematik II (Makina Müh), Undergraduate, 2015 - 2016
MAT2217 Diferansiyel Denklemler, Undergraduate, 2015 - 2016
MAT2217 Diferansiyel Denklemler (Metalurji ve Malzeme Müh.), Undergraduate, 2014 - 2015
YMAT1026 Matematik-II, Undergraduate, 2014 - 2015
MAT1151 Genel Matematik-I (İnşaat Müh.), Undergraduate, 2014 - 2015
YMAT1054 Matematik II, Undergraduate, 2014 - 2015
MAT2256 Mühendislik Matematiği (İmalat Müh.), Undergraduate, 2014 - 2015
MAT1155 Genel Matematik I (İnşaat Müh.), Undergraduate, 2013 - 2014
OMÖ3020 Nümerik Analiz (Eğitim Fak.), Undergraduate, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011
MAT2217 Diferansiyel Denklemler (Metalurji ve Malzeme Müh.), Undergraduate, 2013 - 2014
MAT1156 Genel Matematik II (İnşaat Müh.), Undergraduate, 2013 - 2014
MAT1041 Genel Matematik (Biyoloji), Undergraduate, 2012 - 2013, 2011 - 2012
OMÖ3007 Kısmi Türevli Diferansiyel Denklemler (Eğitim Fak.), Undergraduate, 2012 - 2013
OMÖ2011 Diferansiyel Denklemler I (Eğitim Fak.), Undergraduate, 2012 - 2013
MAT4024 Maple Programlama Dili, Undergraduate, 2012 - 2013
MAT1155 Genel Matematik I (Kimya Müh.), Undergraduate, 2012 - 2013
OMÖ2011 Diferansiyel Denklemler I (Eğitim Fak.), Undergraduate, 2012 - 2013
OMÖ2006 Diferansiyel Denklemler II (Eğitim Fak.), Undergraduate, 2012 - 2013
İNŞ2008 Sayısal Analiz (İnşaat Müh.), Undergraduate, 2012 - 2013, 2011 - 2012, 2009 - 2010
OMÖ2012 Diferansiyel Denklemler II (Eğitim Fak.), Undergraduate, 2012 - 2013
OMÖ3007 Kısmi Türevli Denklemler (Eğitim Fak.), Undergraduate, 2012 - 2013
MAT1152 Genel Matematik II (İnşaat Müh.), Undergraduate, 2011 - 2012
MAT2217 Diferansiyel Denklemler (Çevre Müh.), Undergraduate, 2011 - 2012
OMÖ2012 Diferansiyel Denklemler II, Undergraduate, 2011 - 2012
MAT3008 Diferansiyel Geometri II, Undergraduate, 2011 - 2012, 2010 - 2011, 2009 - 2010
MAT1155 Genel Matematik I, Undergraduate, 2011 - 2012
MAT1156 Genel Matematik II, Undergraduate, 2011 - 2012
OMÖ3007 Kısmi Türevli Diferansiyel Denklemler (Eğitim Fak.), Undergraduate, 2011 - 2012
MAT2251 Diferansiyel Denklemler, Undergraduate, 2011 - 2012
MAT1151 Genel Matematik I, Undergraduate, 2010 - 2011
MAT3007 Diferansiyel Geometri I, Undergraduate, 2010 - 2011
MAT2215 Diferansiyel Denklemler (Jeofizik Müh.), Undergraduate, 2010 - 2011
MAT1062 Analiz II (Kimya), Undergraduate, 2010 - 2011
OMÖ3012 Nümerik Analiz (Eğitim Fak.), Undergraduate, 2010 - 2011
İNŞ2008 Sayısal Analiz, Undergraduate, 2010 - 2011
OMÖ1004 Soyut Matematik II (Eğitim Fak.), Undergraduate, 2010 - 2011
MAT1151 Genel Matematik I (Çevre Müh.), Undergraduate, 2010 - 2011
OMÖ1003 Soyut Matematik I (Eğitim Fak.), Undergraduate, 2010 - 2011
MAT1062 Analiz II, Undergraduate, 2009 - 2010
İMÖ2012 Lineer Cebir II (Eğitim Fak.), Undergraduate, 2009 - 2010
MAT4044 Temel Matematik, Undergraduate, 2009 - 2010
EBE4010 Genel Matematik (Ebelik), Undergraduate, 2009 - 2010

Associate Degree

BRG 1002-MATEMATİK II, Associate Degree, 2020 - 2021

BRG 2001-MESLEK ETİĞİ, Associate Degree, 2020 - 2021

BİL 1001-TEMEL BİLGİ TEKNOLOJİLERİ, Associate Degree, 2020 - 2021
TDS 1186-Mesleki Bilgisayar II, Associate Degree, 2019 - 2020
TEMEL BİLGİ TEKNOLOJİLERİ (İSG), Associate Degree, 2019 - 2020
TEMEL BİLGİ TEKNOLOJİLERİ (İMO), Associate Degree, 2019 - 2020
MATEMATİK I, Associate Degree, 2019 - 2020

Supervised Theses

Kangalgil F., Topsakal N., Ayrık zamanlı bir av-avcı popülasyon modeline indirgenen Covid-19 matematiksel modelinin kararlılık analizi, Postgraduate, Ö.KUZUCU(Student), 2023
, Kangalgil F., Topsakal N., Ayrık zamanlı av-avcı popülasyon modelinde denge noktalarının topolojik sınıflandırılması, kararlılık ve flip çatallanma analizi, Postgraduate, N.ÖZTÜRK(Student), 2022
KANGALGİL F., AYRIK ZAMANLI BİR AV-AVCI POPÜLASYON MODELİ VE KARARLILIK ANALİZİ, Postgraduate, A.HASKAN(Student), 2021
KANGALGİL F., Popülasyon modellerinin dinamiği üzerine, Postgraduate, Ö.DEMİR(Student), 2019
KANGALGİL F., Popülasyon modellerinin kararlılık analizi üzerine, Postgraduate, D.YILMAZ(Student), 2017
KANGALGİL F., Bir popülasyon modelinin kararlılık analizi, Postgraduate, M.BAŞOĞLU(Student), 2016
KANGALGİL F., Regresyon analizi üzerine bir çalışma, Postgraduate, S.EĞRİ(Student), 2016
KANGALGİL F., Allee etkili gecikmeli fark denkleminin lokal kararlılık analizi üzerine, Postgraduate, N.AKGÜN(Student), 2015

Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi Üniversitesi, January, 2024
Post Graduate, Post Graduate, Kastamonu Üniversitesi, January, 2024
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi Üniversitesi, September, 2023
Post Graduate, Post Graduate, Sivas Cumhuriyet Üniversitesi, August, 2023
Doctoral Examination, Doctoral Examination, Sivas Cumhuriyet Üniversitesi, March, 2023
Post Graduate, Post Graduate, Sivas Cumhuriyet Üniversitesi, September, 2022
Post Graduate, Post Graduate, Sivas Cumhuriyet Üniversitesi, August, 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation of the Dynamics of a discrete predator-prey model with an alle effect in prey: stability, bifurcation analysis and chaos control**
Gümüşboğa F., Kangalgil F.
INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS IN APPLIED SCIENCES AND ENGINEERING, vol.00, no.00, 2025 (SCI-Expanded)
- II. **An Investigation of the Discrete-Time Model Subject to Immigration, Harvesting, and Allee Effect**
Kangalgil F., Işık S., Uddin J., Rana S.
INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS IN APPLIED SCIENCES AND ENGINEERING, vol.2550022, pp.1-15, 2025 (SCI-Expanded)
- III. **Local dynamic analysis of the covid-19 mathematical model based on discrete-time predator-prey population model**
Kangalgil F., Topsakal N., Kuzucu Ö.
TURKISH JOURNAL OF MATHEMATICS, vol.1, no.1, pp.1, 2025 (SCI-Expanded)
- IV. **Dynamical analysis and chaos control of a fractional-order Leslie-type predator-prey model with**

Caputo derivative

Işık S., Kangalgil F.

INTERNATIONAL JOURNAL OF BIOMATHEMATICS, vol.17, no.4, pp.2350035, 2024 (SCI-Expanded)

- V. **Complex Dynamics of a Discrete Prey–Predator Model Exposing to Harvesting and Allee Effect on the Prey Species with Chaos Control**
Elmacı D., Kangalgil F.
INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS IN APPLIED SCIENCES AND ENGINEERING, vol.34, no.9, pp.2450114, 2024 (SCI-Expanded)
- VI. **On the qualitative study of a discrete fractional order prey–predator model with the effects of harvesting on predator population**
Uddin M. J., Rana S. M. S., IŞIK S., KANGALGİL F.
Chaos, Solitons and Fractals, vol.175, 2023 (SCI-Expanded)
- VII. **DYNAMICAL COMPLEXITIES IN A DISCRETE-TIME PREDATOR-PREY SYSTEM AS CONSEQUENCES OF THE WEAK ALLEE EFFECT ON PREY**
KANGALGİL F., IŞIK S.
Miskolc Mathematical Notes, vol.24, no.1, pp.209-226, 2023 (SCI-Expanded)
- VIII. **Analyzing bifurcation, stability, and chaos control for a discrete-time prey-predator model with Allee effect**
KANGALGİL F., TOPSAKAL N., Ozturk N.
TURKISH JOURNAL OF MATHEMATICS, vol.46, no.6, pp.2047-2068, 2022 (SCI-Expanded)
- IX. **On the analysis of stability, bifurcation, and chaos control of discrete-time predator-prey model with Allee effect on predator**
IŞIK S., KANGALGİL F.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.51, no.2, pp.404-420, 2022 (SCI-Expanded)
- X. **Effect of immigration in a predator-prey system: Stability, bifurcation and chaos**
KANGALGİL F., IŞIK S.
AIMS MATHEMATICS, vol.7, no.8, pp.14354-14375, 2022 (SCI-Expanded)
- XI. **Controlling chaos and Neimark-Sacker bifurcation in a discrete-time predator-prey system**
Kangalgil F., Işık S.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.49, no.5, pp.1761-1776, 2020 (SCI-Expanded)
- XII. **Neimark-Sacker bifurcation and stability analysis of a discrete-time prey-predator model with Allee effect in prey**
Kangalgil F.
ADVANCES IN DIFFERENCE EQUATIONS, 2019 (SCI-Expanded)
- XIII. **Stability and bifurcation analysis in a host-parasitoid model with Hassell growth function**
Kangalgil F., Kartal S.
ADVANCES IN DIFFERENCE EQUATIONS, 2018 (SCI-Expanded)
- XIV. **SOLITARY WAVE SOLUTIONS FOR HIROTA-SATSUMA COUPLED KdV EQUATION AND COUPLED mKdV EQUATION BY DIFFERENTIAL TRANSFORM METHOD**
Kangalgil F., Ayaz F.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.35, no.2D, pp.203-213, 2010 (SCI-Expanded)
- XV. **Solitary wave solutions for the KdV and mKdV equations by differential transform method**
Kangalgil F., Ayaz F.
CHAOS SOLITONS & FRACTALS, vol.41, no.1, pp.464-472, 2009 (SCI-Expanded)
- XVI. **New exact travelling wave solutions for the Ostrovsky equation**
Kangalgil F., Ayaz F.
PHYSICS LETTERS A, vol.372, no.11, pp.1831-1835, 2008 (SCI-Expanded)

Articles Published in Other Journals

- I. **Stability, Neimark-Sacker Bifurcation Analysis of a Prey-Predator Model with Strong Allee Effect and Chaos Control**
ELMACI D., KANGALGİL F.
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.15, no.3, pp.775-787, 2022 (Peer-Reviewed Journal)
- II. **Period-Doubling Bifurcation and Stability in a Two Dimensional Discrete Prey-Predator Model with Allee Effect and Immigration Parameter on Prey**
Kangalgil F., İlhan F.
CUMHURİYET SCIENCE JOURNAL, vol.43, no.1, pp.88-97, 2022 (Peer-Reviewed Journal)
- III. **Stability Analysis of a Discrete-Time Prey-Predator Population Model with Immigration**
KILIÇ H., TOPSAKAL N., KANGALGİL F.
Cumhuriyet Sciences Journal, vol.41, no.4, pp.884-900, 2020 (Peer-Reviewed Journal)
- IV. **STABILITY ANALYSIS AND FLIP BIFURCATION OF A DISCRETE-TIME PREY-PREDATOR MODEL WITH PREDATOR IMMIGRATION**
KANGALGİL F., TOPSAKAL N.
Asian Journal of Mathematics and Computer Research, vol.27, no.3, pp.1-10, 2020 (Peer-Reviewed Journal)
- V. **Flip Bifurcation and Stability in a Discrete-Time Prey-Predator Model with Allee Effect**
Kangalgil F.
Cumhuriyet Science Journal, vol.40, no.1, pp.141-149, 2019 (Peer-Reviewed Journal)
- VI. **Travelling Wave Solutions of the Perturbed Wadati-Segur-Ablowitz Equation by (G'/G) -Expansion Method**
Kangalgil F.
International Journal of Scientific Research and Management, vol.6, no.06, pp.59-64, 2018 (Peer-Reviewed Journal)
- VII. **Dynamics of a Host-Parasite Model Connected with Immigration**
AK GÜMÜŞ Ö., KANGALGİL F.
New Trends in Mathematical Science, vol.3, no.5, pp.332-339, 2017 (Peer-Reviewed Journal)
- VIII. **The Local Stability Analysis of a Nonlinear Discrete-Time Population Model with Delay and Allee Effect**
KANGALGİL F.
Cumhuriyet Science Journal, vol.38, no.3, pp.480-487, 2017 (Peer-Reviewed Journal)
- IX. **Travelling Wave Solutions of the Schamel-Korteweg-de Vries and the Schamel equations**
KANGALGİL F.
Journal of the Egyptian Mathematical Society, vol.24, no.4, pp.526-531, 2016 (Peer-Reviewed Journal)
- X. **Allee Effect in a new Population Model and Stability Analysis**
KANGALGİL F., AK GÜMÜŞ Ö.
General Mathematics Notes, vol.35, no.1, pp.54-64, 2016 (Peer-Reviewed Journal)
- XI. **Allee Effect and Stability in a Discrete-Time Host-Parasitoid Model**
AK GÜMÜŞ Ö., KANGALGİL F.
Journal of Advanced Research in Applied Mathematics, vol.7, no.1, pp.94-99, 2015 (Peer-Reviewed Journal)
- XII. **The Differential Transform Method for solving one dimensional Burger s Equation and K m p 1 Equation**
KANGALGİL F.
C. Ü. Fen Bilimleri Dergisi, vol.34, no.3, pp.29-40, 2013 (Peer-Reviewed Journal)
- XIII. **Solution of Linear and Nonlinear Heat Equations by the Differential Transform Method**
KANGALGİL F., AYAZ F.
Selcuk Journal of Applied Mathematics, vol.8, no.1, pp.75-86, 2007 (Peer-Reviewed Journal)

Papers Published in Refereed Scientific Meetings

- I. **Stability and Bifurcation Analysis of Discrete Time Predator Prey Population Model**
Kangalgil F., Topsakal N.

International Conference on Mathematics And Mathematics Education, Nevşehir, Turkey, 3 - 05 October 2024, pp.1-2

II. Dynamics Properties of a Discrete Time Model with Weak Allee Effec

Kangalgil F., Işık S.

10th International IFS and Contemporary Mathematics and Engineering Conference, Mersin, Turkey, 4 - 07 September 2024, pp.54

III. AN ANALYSIS OF BIFURCATION AND SIMULATIONS OF TWO-SPECIES MODEL WITH HARVESTING EFFECT

Işık S., Kangalgil F.

11th International Congress on Fundamental and Applied Sciences, İstanbul, Turkey, 9 - 11 July 2024, pp.79

IV. Stability Analysis and Flip Bifurcation of Prey – Predator System Incorporating the Allee Effect

Kangalgil F., Elmacı D.

International Conference on Mathematical Modeling with Modern Applications, İstanbul, Turkey, 04 June 2024

V. Neimark-Sacker Bifurcation and Stability Analysis of Prey – Predator System Expose to Harvesting and Allee Effect

KANGALGİL F., ELMACI D.

International Conference on Mathematical Modeling with Modern Applications, İstanbul, Turkey, 04 June 2024

VI. " Dynamical Behaviors of a Prey-Predator Model including Weak Allee Effect

Öztürk İnce N., Kangalgil F., Topsakal N.

", IX. Kadın Matematikçiler Derneği Çalıştayı, İzmir, Turkey, 3 - 05 May 2024, pp.29

VII. A Dynamic Approach To The Effect Of Harvesting

Işık S., Kangalgil F.

9th International IFS and Contemporary Mathematics and Engineering Conference, Mersin, Turkey, 8 - 11 July 2023, pp.173-174

VIII. Role Of The Weak Allee Phenomena On A Predator-Prey Model

Kangalgil F., Işık S.

9th International IFS and Contemporary Mathematics and Engineering Conference, Mersin, Turkey, 8 - 11 July 2023, pp.24-25

IX. THE COMPLEX DYNAMICAL BEHAVIOURS AND CHAOS CONTROL OF A DISCRETE-TIME PREY-PREDATOR POPULATION MODEL

Topsakal N., Kangalgil F.

8th INTERNATIONAL ASIAN CONGRESS ON CONTEMPORARY SCIENCES , Aksaray, Turkey, 5 - 07 May 2023, pp.135

X. Stability Analysis of a Discrete-Time Prey- Predator Model that Describes the COVID-19

Kuzucu Ö., Kangalgil F., Topsakal N.

8th INTERNATIONAL ASIAN CONGRESS ON CONTEMPORARY SCIENCES, Aksaray, Turkey, 5 - 07 May 2023, pp.1179-1180

XI. Stability Analysis of Prey – Predator System Involving Multiple Allee Effect

Elmacı D., Kangalgil F.

International Conference on Mathematics and Mathematics Education (ICMME - 2022), Denizli, Turkey, 22 - 24 September 2022

XII. Stability Analysis of Prey-Predator System involving Multiple Allee effect

Elmacı D., Kangalgil F.

International Conference on Mathematics and Mathematics Education, Denizli, Turkey, 22 - 24 September 2022

XIII. Analizing Neimark-Sacker Bifurcation and Stability for a Discrete-Time Prey-Predator Model with Allee Effect

ÖZTÜRK N., KANGALGİL F., TOPSAKAL N.

1. International Symposium on Current Developments in Fundamental and Applied Mathematics Sciences, Erzurum, Turkey, 22 - 25 May 2022

XIV. Immigration and Qualitative Behavior of a Two-Dimensional Discrete-Time Model

IŞIK S., KANGALGİL F., İLHAN F.

1. International Symposium on Current Developments in Fundamental and Applied Mathematics Sciences,

Erzurum, Turkey, 22 May 2022

- XV. **Analyzing Period-Doubling Bifurcation and Stability for a Discrete-Time Prey- Predator Model with Allee Effect**
ÖZTÜRK N., KANGALGİL F., TOPSAKAL N.
2. International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 10 March 2022
- XVI. **Behavioural Analysis of a Predator-Prey Model**
KANGALGİL F., IŞIK S.
International Conference on Mathematics and Mathematics Education, Ankara, Turkey, 16 September 2021
- XVII. **On Stability Analysis and Flip Bifurcation of a Discrete-Time Predator-Prey System with Allee Effect and Prey Immigration**
İLHAN F., KANGALGİL F.
International Conference on Mathematics and Mathematics Education, 16 September 2021
- XVIII. **Dynamical Behaviors of a Discrete-Time Predator-Prey Population Model**
KANGALGİL F., İLHAN F.
10th International Eurasian Conference on Mathematical Sciences and Applications, 25 August 2021
- XIX. **Flip Bifurcation and Stability Analysis Two-Dimensional in a Discrete-Time Prey-Predator Model**
KANGALGİL F.
7. International IFS and Contemporary Mathematics Conference, Mersin, Turkey, 25 - 30 May 2021
- XX. **Neimark-Sacker Bifurcation and Stability Of Discrete-Time Prey-Predator Model With Allee Effect**
IŞIK S., KANGALGİL F.
7. International IFS and Contemporary Mathematics Conference, Mersin, Turkey, 25 - 29 May 2021
- XXI. **Ayrık Zamanlı Göç Parametresine Bağlı Bir Av-Avcı Popülasyon Modelinin Kararlılığı**
KILIÇ H., TOPSAKAL N., KANGALGİL F.
İzmir Matematik Günleri-III, Turkey, 1 - 02 October 2020
- XXII. **Bifurcation Analysis of a Leslie-Gower Model Including Allee Effect**
KANGALGİL F., IŞIK S.
4th International Conference on Mathematics "An Istanbul Meeting for World Mathematicians", İstanbul, Turkey, 1 - 03 July 2020, pp.49
- XXIII. **Dynamics of a Modified A Discrete-Time Predator- Prey Model With Allee Effect**
KANGALGİL F., IŞIK S.
International Conference on Mathematics and Its Applications in Science and Engineering, Ankara, Turkey, 9 - 10 June 2020, vol.69
- XXIV. **Stability Analysis and Topological Classification of Fixed Points of Discrete-Time Prey-Predator Model**
DEMİR Ö., KANGALGİL F.
International Conference on Mathematics and Its Applications in Science and Engineering, Ankara, Turkey, 9 - 10 June 2020, pp.138-139
- XXV. **Kesikli zamanlı Av-Avcı Popülasyon Modelinin Çatallanma Analizi**
KANGALGİL F., IŞIK S.
3rd International Congress on Vocational and Technical Sciences, Gaziantep, Turkey, 21 - 22 June 2018
- XXVI. **On Stability and Bifurcation Analysis in a Discrete-Time Predator System**
KANGALGİL F., IŞIK S.
International Conference on Mathematics and Mathematics Education, Ordu, Turkey, 27 - 28 June 2018
- XXVII. **Genel Bir Tek Popülasyon Modelinde Allee fonksiyonunun Etkisi**
KANGALGİL F., IŞIK S.
3rd. International Congress on Vocational and Technical Sciences, Gaziantep, Turkey, 21 - 22 June 2018
- XXVIII. **The Stability of Delayed Population Models and The effect of the Allee Factor on Stability**
AK GÜMÜŞ Ö., KANGALGİL F.
3th International Conference on Computational Mathematics and Engineering Sciences, Girne, Cyprus (Kktc), 4 - 06 May 2018
- XXIX. **Stability Analysis and Discrete-time Population Model with Predation**

KANGALGİL F., AK GÜMÜŞ Ö.

3th International Conference on Computational Mathematics and Engineering Sciences, Girne, Cyprus (Kkctc), 4 - 06 May 2018

XXX. Allee effect and Stability Analysis of a Delayed Discrete-Time Population Model

KANGALGİL F., AK GÜMÜŞ Ö.

3th International Conference on Computational Mathematics and Engineering Sciences, Girne, Cyprus (Kkctc), 4 - 06 May 2018

XXXI. Consequences on the Global Stability of the Discrete-Time Population Model

AK GÜMÜŞ Ö., KANGALGİL F.

3th International Conference on Computational Mathematics and Engineering Sciences, Girne, Cyprus (Kkctc), 4 - 06 May 2018

XXXII. The Local Stability Analysis of a Delay General Nonlinear Discrete-time Population Model Including Predation and Allee Effect

KANGALGİL F., IŞIK S.

1. International Symposium on Multidisciplinary Studies and Innovative Technologies, Tokat, Turkey, 2 - 04 November 2017

XXXIII. Local Stability in a Discrete-time Population Model with Delay and Allee Effect

KANGALGİL F., YILMAZ D.

1. International Symposium on Multidisciplinary Studies and Innovative Technologies, Tokat, Turkey, 2 - 04 November 2017

XXXIV. Stability Analysis of an Host-Parasitoid Model With Immigration

KANGALGİL F., BAŞOĞLU M.

2. International Science Symposium, Tbilisi, Georgia, 5 - 08 September 2017

XXXV. Exact Solutions of Some Nonlinear Partial Differential Equations In Mathematical Physics

KANGALGİL F., TOPSAKAL N.

2nd International Science Symposium, Tbilisi, Georgia, 5 - 08 September 2017

XXXVI. Exact Solutions to Some Nonlinear Partial Differential Equations

TOPSAKAL N., KANGALGİL F.

2nd International Science Symposium, Tbilisi, Georgia, 5 - 08 September 2017

XXXVII. A Host Parasite Population Dynamics Under Immigration

AK GÜMÜŞ Ö., KANGALGİL F.

International Conference on Mathematics and Mathematics Education, Şanlıurfa, Turkey, 11 - 13 May 2017

XXXVIII. A General Nonlinear Discrete-Time Population Model involving Allee Effect and Stability Analysis

KANGALGİL F., AK GÜMÜŞ Ö.

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XXXIX. Allee Effect and Stability Analysis in a Discrete-Time Host parasitoid Model

KANGALGİL F., AK GÜMÜŞ Ö.

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XL. On the local stability analysis of a nonlinear discrete time population model involving delay and Allee effect

KANGALGİL F., Akgün N.

International Conference on mathematics and Mathematics Education, Elazığ, Turkey, 12 - 14 May 2016

XLI. The Differential Transform Method for Solving one Dimensional Burger s equation and K m p 1 Equation

KANGALGİL F.

2. Kadın Matematikçiler Derneği Çalıştayı, Sivas, Turkey, 1 - 03 May 2015

XLII. Allee Effect in a New Population Model and Stability Analysis

KANGALGİL F., AK GÜMÜŞ Ö.

2. Kadın Matematikçiler Derneği Çalıştayı, Sivas, Turkey, 1 - 03 May 2015

XLIII. Travelling wave solutions of Schamel-Korteweg-De-Vries and Schamel Equation

KANGALGİL F.

Supported Projects

- Kangalgil F., Topsakal N., Kuzucu Ö., Project Supported by Higher Education Institutions, Ayrık Zamanlı Bir Av-Avcı Popülasyon Modeline İndirgenen Covid-19 Matematiksel Modelinin Kararlılık Analizi, 2021 - 2023
- Topsakal N., Kangalgil F., Öztürk N., Project Supported by Higher Education Institutions, Ayrık Zamanlı Av-Avcı Popülasyon Modelinde Denge noktalarının Topolojik Sınıflandırılması ve Kararlılık Analizi, 2020 - 2022
- KANGALGİL F., Project Supported by Higher Education Institutions, Allee etkili Av-Avcı Popülasyon Modelinde Kararlılık Analizi ve Çatallanma, 2018 - 2020
- Kangalgil F., Project Supported by Higher Education Institutions, Popülasyon Modellerinin Dinamiği Üzerine, 2018 - 2019
- Topsakal N., Kangalgil F., Project Supported by Higher Education Institutions, Kesirli Mertebeden Modifiye edilmiş KdV denkleminin Tam Çözümleri, 2018 - 2019
- KANGALGİL F., Project Supported by Higher Education Institutions, Bir Host-Parasitoid Modelde Kararlılık Analizi ve Çatallanma, 2017 - 2018
- KANGALGİL F., Project Supported by Higher Education Institutions, Perturbed Wadati-Segur-Ablowitz Denkleminin Tam Çözümleri, 2017 - 2017
- KANGALGİL F., Project Supported by Higher Education Institutions, Popülasyon Modellerinin Kararlılık Analizi Üzerine, 2017 - 2017
- KANGALGİL F., Project Supported by Higher Education Institutions, Allee etkisinin Popülasyon Modelleri Üzerine etkisi ve Kararlılık Analizi, 2016 - 2016
- KANGALGİL F., Project Supported by Higher Education Institutions, Bir Popülasyon Modelinin Kararlılık Analizi, 2016 - 2016
- KANGALGİL F., Project Supported by Higher Education Institutions, Burger's Denkleminin Diferensiyel Dönüşüm Metodu ile Yaklaşık Çözümleri Üzerine, 2009 - 2010

Activities in Scientific Journals

Kuzey Ege Teknik Bilimler Ve Teknolojisi Dergisi, Editor, 2024 - Continues

Peer Reviews in Scientific Publications

- Partial Differential Equations in Applied Mathematics -, Other Indexed Journal, November 2024
- CUMHURİYET SCIENCE JOURNAL, Other Indexed Journal, February 2024
- International Journal of Bifurcation and Chaos, Journal Indexed in SCI-E, February 2024
- PLOS ONE, Journal Indexed in SCI-E, January 2024
- CUMHURİYET SCIENCE JOURNAL, Other Indexed Journal, June 2023
- CUMHURİYET SCIENCE JOURNAL, Other Indexed Journal, May 2023
- CHAOS THEORY AND APPLICATIONS, Other Indexed Journal, May 2023
- INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS IN APPLIED SCIENCES AND ENGINEERING, Journal Indexed in SCI-E, April 2023
- COMPLEXITY, Journal Indexed in SCI-E, April 2023
- INTERNATIONAL JOURNAL OF BIOMATHEMATICS, Journal Indexed in SCI-E, March 2023
- CUMHURİYET SCIENCE JOURNAL, Other Indexed Journal, February 2023
- INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS IN APPLIED SCIENCES AND ENGINEERING, Journal Indexed in SCI-E, February 2023
- PLOS ONE, Journal Indexed in SCI-E, January 2023
- Erciyes Üniversitesi Fen Bilimleri Enstitüsü Dergisi, Other Indexed Journal, December 2022

CUMHURİYET SCIENCE JOURNAL, Other Indexed Journal, May 2022
CUMHURİYET SCIENCE JOURNAL, Other Indexed Journal, February 2022
CUMHURİYET SCIENCE JOURNAL, Other Indexed Journal, February 2022
Erzincan University Journal of Science and Technology, Other Indexed Journal, December 2021
Gazi University Journal of Science Part A: Engineering and Innovation, Other Indexed Journal, December 2021
CUMHURİYET SCIENCE JOURNAL, Other Indexed Journal, December 2021
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GAZI UNIVERSITY JOURNAL OF SCIENCE, Other Indexed Journal, April 2021
CUMHURİYET SCIENCE JOURNAL, Other Indexed Journal, November 2020
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Scientific Project Refereeing

Project Supported by Higher Education Institutions, BAP Research Project, October 2023
Project Supported by Higher Education Institutions, BAP Research Project, July 2020

Metrics

Publication: 72
Citation (WoS): 201
Citation (Scopus): 208
H-Index (WoS): 8
H-Index (Scopus): 7

Awards

Kangalgil F., Akademik Teşvik Ödülü, Cumhuriyet Üniversitesi, December 2018
Kangalgil F., Yayın Teşvik Ödülü, Gazi Üniversitesi, May 2009