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Kişisel Bilgiler

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Araştırma Alanları

Matematik

Akademik İdari Deneyim

MYO Müdürü, Kayseri Üniversitesi, Mustafa Çıkrıkçıoğlu Meslek Yüksekokulu, –, 2023 - Devam Ediyor
Yüksekokul Kurulu Üyesi, Kayseri Üniversitesi, Mustafa Çıkrıkçıoğlu Meslek Yüksekokulu, 2023 - Devam Ediyor
Bölüm Başkanı, Aksaray Üniversitesi, Fen Edebiyat, Matematik, 2021 - 2023
Bölüm Başkanı, Aksaray Üniversitesi, 2016 - 2019
Enstitü Müdür Yardımcısı, Aksaray Üniversitesi, 2013 - 2015
Bölüm Başkanı, Aksaray Üniversitesi, 2011 - 2013

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **A mathematical model of mobility-related infection and vaccination in an epidemiological case**
Bozkurt F., Baleanu D., BİLGİL H.
COMPUTER METHODS IN BIOMECHANICS AND BIOMEDICAL ENGINEERING, 2024 (SCI-Expanded)
- II. **A fractional-order mathematical model based on vaccinated and infected compartments of SARS-CoV-2 with a real case study during the last stages of the epidemiological event**
Bilgil H., Yousef A., Erciyes A., Erdinc U., Ozturk Z.
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, cilt.425, 2023 (SCI-Expanded)
- III. **Application of Fractional SIQRV Model for SARS-CoV-2 and Stability Analysis**
Öztürk Z., Bilgil H., Sorgun S.
SYMMETRY, cilt.15, sa.5, ss.1048-1067, 2023 (SCI-Expanded)
- IV. **A mathematical model with piecewise constant arguments of colorectal cancer with chemo-immunotherapy**
Bozkurt F., Yousef A., BİLGİL H., Baleanu D.
Chaos, Solitons and Fractals, cilt.168, 2023 (SCI-Expanded)
- V. **Analytical solution and flow topology in a lid-driven S-shaped cavity**
Bilgil H., Şafak İ., Ozturk Z.
PHYSICS OF FLUIDS, cilt.34, sa.12, 2022 (SCI-Expanded)
- VI. **A Novel Fractional Forecasting Model for Time Dependent Real World Cases**
Erdoğan Ü., Bilgil H., Öztürk Z.

REVSTAT STATISTICAL JOURNAL, cilt.33, ss.1-21, 2022 (SCI-Expanded)

- VII. **An optimized continuous fractional grey model for forecasting of the time dependent real world cases**
Öztürk Z., Bilgil H., Erdinc U.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, cilt.51, sa.1, ss.308-326, 2022 (SCI-Expanded)
- VIII. **New grey forecasting model with its application and computer code**
Bilgil H.
AIMS MATHEMATICS, cilt.6, sa.2, ss.1497-1514, 2021 (SCI-Expanded)
- IX. **Effect of the Reynolds number on flow bifurcations and eddy genesis in a lid-driven sectorial cavity**
Bilgil H., Gurcan F.
JAPAN JOURNAL OF INDUSTRIAL AND APPLIED MATHEMATICS, cilt.33, sa.2, ss.343-360, 2016 (SCI-Expanded)
- X. **Bifurcations and eddy genesis of Stokes flow within a sectorial cavity PART II: Co-moving lids**
Gurcan F., Bilgil H., Sahin A.
EUROPEAN JOURNAL OF MECHANICS B-FLUIDS, cilt.56, ss.200-210, 2016 (SCI-Expanded)
- XI. **A note on exp-function method combined with complex transform method applied to fractional differential equations**
Guner O., Bekir A., Bilgil H.
ADVANCES IN NONLINEAR ANALYSIS, cilt.4, sa.3, ss.201-208, 2015 (SCI-Expanded)
- XII. **Optical soliton solutions for the variable coefficient modified Kawahara equation**
Bekir A., Guner O., Bilgil H.
OPTIK, cilt.126, sa.20, ss.2518-2522, 2015 (SCI-Expanded)
- XIII. **Bifurcations and eddy genesis of Stokes flow within a sectorial cavity**
Gurcan F., Bilgil H.
EUROPEAN JOURNAL OF MECHANICS B-FLUIDS, cilt.39, ss.42-51, 2013 (SCI-Expanded)
- XIV. **A numerical approach to determine viscosity-dependent segregation in fresh concrete**
Bilgil A., Ozturk B., Bilgil H.
APPLIED MATHEMATICS AND COMPUTATION, cilt.162, sa.1, ss.225-241, 2005 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **A new application of fractional glucose-insulin model and numerical solutions**
Öztürk Z., Bilgil H., Sorgun S.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, cilt.42, sa.3, ss.1-12, 2024 (ESCI)
- II. **A Fractional-order mathematical model to analyze the stability and develop a sterilization strategy for the habitat of stray dogs**
Ozturk Z., Yousef A., Bilgil H., SORGUN S.
INTERNATIONAL JOURNAL OF OPTIMIZATION AND CONTROL-THEORIES & APPLICATIONS-IJOCTA, cilt.14, sa.2, ss.134-146, 2024 (ESCI)
- III. **Fractional SIQRV Model for COVID-19 and Numerical Solutions**
Öztürk Z., Bilgil H., Sorgun S.
Konuralp Journal of Mathematics, cilt.11, sa.2, ss.131-140, 2023 (ESCI)
- IV. **Application of Fractional SPR Psychological Disease Model in Turkey and Stability Analysis**
Öztürk Z., Bilgil H., Sorgun S.
Journal of mathematical sciences and modelling (Online), cilt.6, sa.2, ss.49-55, 2023 (Scopus)
- V. **Stability Analysis of Fractional PSQp Smoking Model and Application in Turkey**
Öztürk Z., Bilgil H., Sorgun S.
New Trends in Mathematical Science, cilt.10, sa.4, ss.54-62, 2022 (Hakemli Dergi)
- VI. **Application of Standard and Exponential Grey Forecasting Models on Turkey's Education Expenditures**
Akyuz L., Bilgil H.

- New Trends in Mathematical Science, cilt.10, ss.9-19, 2022 (Hakemli Dergi)
- VII. **GM (1,1) ve EXGM (1,1) Tahmin Modellerinin Türkiye'nin Ar-Ge Harcamalarına Uygulanması**
Akyüz L., Bilgil H.
Aksaray University Journal of Science and Engineering, cilt.6, sa.2, ss.95-106, 2022 (Hakemli Dergi)
- VIII. **SIQRV Modeli ve Nümerik Uygulaması**
Öztürk Z., Sorgun S., Bilgil H.
Avrupa Bilim ve Teknoloji Dergisi, cilt.2021, ss.573-578, 2021 (Hakemli Dergi)
- IX. **New Exact Solutions of Conformable Time-Fractional Bad and Good Modified Boussinesq Equations**
Öztürk Z., Sorgun S., Bilgil H., Erdinç Ü.
Journal of New Theory, cilt.2021, sa.37, ss.8-25, 2021 (Hakemli Dergi)
- X. **The Grey Forecasting Modelling and Its Application**
Bilgil H., Ozturk Z., Ozgul E.
Aksaray University Journal of Science and Engineering, cilt.3, sa.2, ss.75-81, 2019 (Hakemli Dergi)
- XI. **Exact Solutions of Rosenzweig-Macarthur (RM) Model Equations by Using Exp Function Method**
Öztürk Z., Bilgil H.
Avrupa Bilim ve Teknoloji Dergisi, cilt.2019, ss.427-433, 2019 (Hakemli Dergi)
- XII. **Mathematical Estimation of Expenditures in The Health Sector in TURKEY with Grey Modeling**
Öztürk Z., Bilgil H.
ERCIYES UNIVERSITY JOURNAL OF SOCIAL SCIENCES INSTITUTE, cilt.35, sa.3, ss.52-58, 2019 (Hakemli Dergi)
- XIII. **An application of khuri's biorthogonality condition on stokes flow in a rectangular cavity**
BİLGİL H.
Applied Mathematics E - Notes, cilt.19, ss.456-464, 2019 (Scopus)
- XIV. **An Application Of Khuri's Biorthogonality Condition On Stokes Flow In A Rectangular Cavity**
Bilgil H.
APPLIED MATHEMATICS E-NOTES, cilt.19, ss.456-464, 2019 (ESCI)
- XV. **Mathematical Modeling for Prediction of Heating and Air-Conditioning Energies of Multistory Buildings in Duhok City**
Zaya N. E., Hassan L. H., Bilgil H.
Academic Journal of Nawroz University, cilt.7, sa.4, ss.153-167, 2018 (Hakemli Dergi)
- XVI. **EFFECT OF THE CAVITY ANGLE ON FLOW STRUCTURES IN AN ANNULAR WEDGE CAVITY**
Bilgil H., Dölek Z.
Konuralp Journal of Mathema, cilt.3, sa.2, ss.1-16, 2015 (ESCI)
- XVII. **EXACT SOLUTIONS AND PAINLEVE ANALYSIS OF NONLINEAR EVOLUTION EQUATIONS**
Özer M. N., Bekir A., Bilgil H.
HADRONIC JOURNAL, cilt.28, sa.4, ss.453-466, 2005 (Hakemli Dergi)
- XVIII. **APPLICATIONS OF EXTENDED TANH METHODS FOR NONLINEAR EQUATIONS**
Özer M. N., Bekir A., Bilgil H.
HADRONIC JOURNAL, cilt.28, sa.5, ss.559-569, 2005 (Hakemli Dergi)

Kongre ve Sempozyum Katılımı Faaliyetleri

5. INTERNATIONAL CAPPADOCIA SCIENTIFIC RESEARCH CONGRESS, Oturum Başkanı, Nevşehir, Türkiye, 2023

9th International IFS and Contemporary Mathematics and Engineering Conference, Katılımcı, Mersin, Türkiye, 2023