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Kişisel Bilgiler

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Eğitim Bilgileri

Ön Lisans, Atatürk Üniversitesi, Açıköğretim Fakültesi, Türkiye 2014 - 2016

Doktora, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Matematik Anabilim Dalı, Türkiye 1998 - 2002

Yüksek Lisans, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Matematik Anabilim Dalı, Türkiye 1995 - 1998

Lisans, Atatürk Üniversitesi, Fen Fakültesi, Matematik, Türkiye 1991 - 1995

Yabancı Diller

İngilizce, B2 Orta Üstü

Yaptığı Tezler

Doktora, Diferansiyel-Cebirsel Denklemlerin Nümerik Çözümü, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Matematik/ Uygulamalı Matematik, 2002

Yüksek Lisans, Gröbner Bazı ve Uygulamaları, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Matematik/ Uygulamalı Matematik, 1998

Araştırma Alanları

Matematik, Diferansiyel denklemler, İntegral Denklemleri, Kısmi diferansiyel eşitlikler, Optimizasyon, Sayısal Analiz, Temel Bilimler

Akademik Unvanlar / Görevler

Prof. Dr., Atatürk Üniversitesi, Fen Fakültesi, Matematik, 2016 - Devam Ediyor

Doç. Dr., Atatürk Üniversitesi, Fen Fakültesi, Matematik, 2010 - 2016

Yrd. Doç. Dr., Atatürk Üniversitesi, Fen Fakültesi, Matematik, 2008 - 2010

Yrd. Doç. Dr., Yıldız Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2006 - 2008

Yrd. Doç. Dr., Atatürk Üniversitesi, Fen Fakültesi, Matematik, 2002 - 2006

Araştırma Görevlisi, Atatürk Üniversitesi, Fen Fakültesi, Matematik, 1995 - 2002

Akademik İdari Deneyim

Anabilim/Bilim Dalı Başkanı, Atatürk Üniversitesi, Fen Fakültesi, Matematik, 2018 - Devam Ediyor
Atatürk Üniversitesi, Narman Myo, 2013 - 2016

Verdiği Dersler

İleri Kısmi Diferansiyel Denklemler-I-II, Doktora, 2020 - 2021
Uygulamalı Matematik, Lisans, 2019 - 2020
Uzmanlık Alan Dersi II, Doktora, 2020 - 2021
Diferansiyel Denklemler-I-II, Lisans, 2020 - 2021, 2019 - 2020
İleri Nümerik Analiz-I-II, Doktora, 2019 - 2020
Uzmanlık Alan Dersi I, Doktora, 2019 - 2020
Differential-Algebraic Equation-I-II, Yüksek Lisans, 2020 - 2021, 2019 - 2020
Kısmi Diferansiyel Denklemler, Lisans, 2019 - 2020
Diferansiyel Denklemler, Lisans, 2020 - 2021, 2019 - 2020
Nümerik Analiz, Lisans, 2019 - 2020
Matematik-I-II, Lisans, 2016 - 2017

Yönetilen Tezler

ÇELİK E., Lucas Polinomları ile Diferansiyel-Cebirsel Denklemlerin Nümerik Çözümü, Yüksek Lisans, B.BULUR(Öğrenci), 2018
ÇELİK E., Fuzzy Metre Kullanılarak Fuzzy Sayılarının Sıralanması ve Sonuçların Karşılaştırılması, Doktora, E.ABBASI(Öğrenci), 2018
ÇELİK E., Kesirli Mertebeden Bir Matematiksel Modelin Çözümü, Doktora, M.Ali(Öğrenci), 2017
ÇELİK E., Kesirli Kompleks Dönüşüm Metodu ile Kesirli Diferansiyel- Cebirsel Denklemlerin Nümerik Çözümü, Doktora, E.SEFİDĞAR(Öğrenci), 2017
ÇELİK E., Aralık-Değerli Bulanık Topsis Yöntemi ile Yatırım Fırsatlarını Değerlendirme, Yüksek Lisans, N.Mohammadi(Öğrenci), 2017
ÇELİK E., Diferansiyel-Cebirsel Denklemler ve Kesirli Mertebeden Diferansiyel-Cebirsel Denklemlerin Homotopi Pertürbe Dönüşüm Metodu ve Yeni İteratif Dönüşüm Metodu ile Çözümü, Doktora, R.Najafi(Öğrenci), 2016
ÇELİK E., Çarpımsal(Multiplikatif) Türev ve Çarpımsal Lineer Diferansiyel Denklemler, Doktora, N.TUNCELİ(Öğrenci), 2016
ÇELİK E., Lineer Kompleks Diferansiyel Denklemlerin Legendre Polinomları ile Nümerik Çözümleri, Doktora, F.DÜŞÜNCELİ(Öğrenci), 2015
ÇELİK E., Uyumlu Kesirli Türev ve Dizisel Lineer Diferansiyel Denklemler, Atatürk Üniversitesi, Doktora, E.ÜNAL(Öğrenci), 2015
ÇELİK E., Diferansiyel Cebirsel Denklemlerin Haar Dalgacık Metodu İle Nümerik Çözümü, Doktora, M.KARABACAK(Öğrenci), 2014
ÇELİK E., Kesirli Mertebeden Kısmi Diferansiyel Cebirsel Denklemlerin Farklı Metodlarla Nümerik Çözümü, Doktora, G.Dilek(Öğrenci), 2014
ÇELİK E., Fuzzy Kesirli Diferansiyel Denklemlerin Sayısal Çözümleri, Doktora, E.KHODADADİGNANDNAR(Öğrenci), 2014
ÇELİK E., Numerical solution of Fractional Partial Differential-Algebraic Equations, Doktora, K.TABATAHAEİ(Öğrenci), 2013
ÇELİK E., Quasi Optiğin Durgun Denklemi İçin Optimal Kontrol Problemi ve Onun Nümerik Çözümü, Doktora, Y.KOÇAK(Öğrenci), 2013
ÇELİK E., RSA Kripto sistemini Etkileyen Faktörler, Doktora, İ.OKUMUŞ(Öğrenci), 2012
ÇELİK E., Kısmi Diferansiyel-Cebirsel Denklemlerin Çok Değişkenli Padé Yaklaşımı ile Nümerik Çözümü, Doktora,

M.YİĞİDER(Öğrenci), 2011

ÇELİK E., Lineer Diferensiyel-Cebirsel Denklemlerin Hermite Polinomları yaklaşımı ile Nümerik Çözümü, Yüksek Lisans,

D.ÖZGÖKKURT(Öğrenci), 2011

ÇELİK E., Diferensiyel-Cebirsel Denklemlerin Laguerre Polinomları ile Nümerik Çözümü, Yüksek Lisans,

M.AKÇAY(Öğrenci), 2010

ÇELİK E., Diferensiyel-Cebirsel Denklemlerin Legendre Polinomları ile Nümerik Çözümü, Yüksek Lisans,

F.BERK(Öğrenci), 2010

ÇELİK E., Çok Değişkenli Padé Yaklaşımları ve Uygulamaları, Yüksek Lisans, V.TÜRÜT(Öğrenci), 2007

ÇELİK E., Diferensiyel-Cebirsel Denklemlerin En Küçük Kareler Yaklaşımı ile Nümerik Çözümü, Yüksek Lisans,

M.AKAR(Öğrenci), 2007

ÇELİK E., Diferensiyel-Cebirsel Denklemlerin Adomian Ayırıştırma metodu ile Nümerik çözümü, Yüksek Lisans,

O.Kızıloğlu(Öğrenci), 2005

ÇELİK E., Diferensiyel-Cebirsel Denklemlerin Chebyshev Yaklaşımı ile Nümerik çözümü, Yüksek Lisans,

T.Yeloğlu(Öğrenci), 2004

Jüri Üyelikleri

Doçentlik Sınavı, Doçentlik Sınavı, Bingöl Üniversitesi, Ekim, 2021

Tez Savunma (Yüksek Lisans), Tez Savunma (Yüksek Lisans), Atatürk Üniversitesi, Eylül, 2021

Tez Savunma (Doktora), Tez Savunma (Doktora), Atatürk Üniversitesi, Ağustos, 2021

Tez Savunma (Doktora), Tez Savunma (Doktora), Atatürk Üniversitesi, Haziran, 2021

Tez Savunma (Yüksek Lisans), Tez Savunma (Yüksek Lisans), Ağrı İbrahim Çeçen Üniversitesi, Haziran, 2021

Doktora Tez İzleme Komitesi (TİK) Üyeliği, Doktora Tez İzleme Komitesi (TİK) Üyeliği, Atatürk Üniversitesi, Haziran, 2021

Doktora Tez İzleme Komitesi (TİK) Üyeliği, Doktora Tez İzleme Komitesi (TİK) Üyeliği, Atatürk Üniversitesi, Haziran, 2021

Doktora Yeterlik Sınavı, Doktora Yeterlik Sınavı, Fırat Üniversitesi, Haziran, 2021

Doktora Tez İzleme Komitesi (TİK) Üyeliği, Doktora Tez İzleme Komitesi (TİK) Üyeliği, Atatürk Üniversitesi, Haziran, 2021

Doçentlik Sınavı, Doçentlik Sınavı, Orta Doğu Teknik Üniversitesi, Mayıs, 2021

Doktora Yeterlik Sınavı, Doktora Yeterlik Sınavı, Atatürk Üniversitesi, Şubat, 2021

Doktora Yeterlik Sınavı, Doktora Yeterlik Sınavı, Atatürk Üniversitesi, Şubat, 2021

Tez Savunma (Yüksek Lisans), Tez Savunma (Yüksek Lisans), Erzurum Teknik Üniversitesi, Aralık, 2020

Doçentlik Sınavı, Doçentlik Sınavı, Eskişehir Osmangazi Üniversitesi, Kasım, 2020

Doçentlik Sınavı, Doçentlik Sınavı, Orta Doğu Teknik Üniversitesi, Ekim, 2020

Tez Savunma (Yüksek Lisans), Tez Savunma (Yüksek Lisans), Atatürk Üniversitesi, Ekim, 2020

Tez Savunma (Doktora), Tez Savunma (Doktora), İnönü Üniversitesi, Ağustos, 2020

Doktora Yeterlik Sınavı, Doktora Yeterlik Sınavı, Fırat Üniversitesi, Temmuz, 2020

Doktora Tez İzleme Komitesi (TİK) Üyeliği, Doktora Tez İzleme Komitesi (TİK) Üyeliği, Atatürk Üniversitesi, Haziran, 2020

Doktora Tez İzleme Komitesi (TİK) Üyeliği, Doktora Tez İzleme Komitesi (TİK) Üyeliği, Atatürk Üniversitesi, Haziran, 2020

Akademik Kadroya Atama-Yardımcı Doçentlik, Akademik Kadroya Atama, Yıldız Teknik Üniversitesi, Mayıs, 2020

Tez Savunma (Yüksek Lisans), Tez Savunma (Yüksek Lisans), Ağrı İbrahim Çeçen Üniversitesi, Mayıs, 2020

Doçentlik Sınavı, Doçentlik Sınavı, Bingöl Üniversitesi, Mart, 2020

Doktora Tez İzleme Komitesi (TİK) Üyeliği, Doktora Tez İzleme Komitesi (TİK) Üyeliği, Atatürk Üniversitesi, Şubat, 2020

Tez Savunma (Yüksek Lisans), Tez Savunma (Yüksek Lisans), Kafkas Üniversitesi, Ocak, 2020

Doktora Tez İzleme Komitesi (TİK) Üyeliği, Doktora Tez İzleme Komitesi (TİK) Üyeliği, Atatürk Üniversitesi, Ocak, 2020

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Investigation on the new exact solutions of generalized Rosenau-Kawahara-RLW equation with p-th order nonlinearity occurring in ocean engineering models**
TAŞBOZAN O., ÇELİK E., Kurt A., Akinyemi L.
Applied Mathematics, cilt.39, sa.4, ss.642-653, 2024 (SCI-Expanded)
- II. **USING FUZZY-ROUGH SET EVALUATION FOR FEATURE SELECTION AND NAIVE BAYES TO CLASSIFY THE PARKINSON DISEASE**
Lanbaran N. M., ÇELİK E., Kotan O.
MISKOLC MATHEMATICAL NOTES, cilt.23, sa.2, ss.787-800, 2022 (SCI-Expanded)
- III. **Numerical solution of Volterra-Fredholm integral equations with Hosoya polynomials**
Gecmen M. Z., ÇELİK E.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, cilt.44, sa.14, ss.11166-11173, 2021 (SCI-Expanded)
- IV. **On the modulation instability analysis and deeper properties of the cubic nonlinear Schrodinger's equation with repulsive delta-potential**
Li Y., ÇELİK E., Guirao J. L. G., Saeed T., Mehmet Baskonus H.
RESULTS IN PHYSICS, cilt.25, 2021 (SCI-Expanded)
- V. **New exact solutions for the doubly dispersive equation using the improved Bernoulli sub-equation function method**
Dusunceli F., Celik E., Askin M., Bulut H.
INDIAN JOURNAL OF PHYSICS, cilt.95, sa.2, ss.309-314, 2021 (SCI-Expanded)
- VI. **ANALYZING A NOVEL CORONAVIRUS MODEL (COVID-19) IN THE SENSE OF CAPUTO-FABRIZIO FRACTIONAL OPERATOR**
Dokuyucu M. A., ÇELİK E.
APPLIED AND COMPUTATIONAL MATHEMATICS, cilt.20, sa.1, ss.49-69, 2021 (SCI-Expanded)
- VII. **ON THE EXISTENCE AND UNIQUENESS OF THE SOLUTION OF AN OPTIMAL CONTROL PROBLEM FOR SCHRÖDINGER EQUATION**
Kuecuk G. D., YAGUB G., ÇELİK E.
DISCRETE AND CONTINUOUS DYNAMICAL SYSTEMS-SERIES S, cilt.12, sa.3, ss.503-512, 2019 (SCI-Expanded)
- VIII. **Numerical solution for high-order linear complex differential equations with variable coefficients**
Dusunceli F., ÇELİK E.
NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, cilt.34, sa.5, ss.1645-1658, 2018 (SCI-Expanded)
- IX. **Novel features of the nonlinear model arising in nano-ionic currents throughout microtubules**
ÇELİK E., Bulut H., Baskonus H. M.
INDIAN JOURNAL OF PHYSICS, cilt.92, sa.9, ss.1137-1143, 2018 (SCI-Expanded)
- X. **Cancer treatment model with the Caputo-Fabrizio fractional derivative**
Dokuyucu M. A., ÇELİK E., Bulut H., Baskonus H. M.
EUROPEAN PHYSICAL JOURNAL PLUS, cilt.133, sa.3, 2018 (SCI-Expanded)
- XI. **Analysis of Keller-Segel Model with Atangana-Baleanu Fractional Derivative**
DOKUYUCU M. A., BALEANU D., ÇELİK E.
FILOMAT, cilt.32, sa.16, ss.5633-5643, 2018 (SCI-Expanded)
- XII. **Modified iteration method for solving fractional gas dynamics equation**
NAJAFİ R., Kucuk G. D., ÇELİK E.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, cilt.40, sa.4, ss.939-946, 2017 (SCI-Expanded)
- XIII. **Solutions around a regular a singular point of a sequential conformable fractional differential equation**
Unal E., GÖKDOĞAN A., ÇELİK E.
KUWAIT JOURNAL OF SCIENCE, cilt.44, sa.1, ss.9-16, 2017 (SCI-Expanded)
- XIV. **Multiplicative Laplace transform and its applications**
YALÇIN N., ÇELİK E., GÖKDOĞAN A.

- OPTIK, cilt.127, sa.20, ss.9984-9995, 2016 (SCI-Expanded)
- XV. **EXISTENCE AND UNIQUENESS THEOREMS FOR SEQUENTIAL LINEAR CONFORMABLE FRACTIONAL DIFFERENTIAL EQUATIONS**
Gokdogan A., Unal E., ÇELİK E.
MISKOLC MATHEMATICAL NOTES, cilt.17, sa.1, ss.267-279, 2016 (SCI-Expanded)
- XVI. **A Note on Optimal Control Problem Governed by Schrodinger Equation**
Kocak Y., ÇELİK E., Aksoy N. Y.
OPEN PHYSICS, cilt.13, sa.1, ss.407-413, 2015 (SCI-Expanded)
- XVII. **The numerical solution of partial differential-algebraic equations**
YİĞİDER M., ÇELİK E.
ADVANCES IN DIFFERENCE EQUATIONS, 2013 (SCI-Expanded)
- XVIII. **On The Numerical Solution of differential algebraic equations with Index 3 by Pade approximation**
ÇELİK E., TABATABEI K.
Applied Mathematics & Information Sciences, cilt.2, ss.1-6, 2013 (SCI-Expanded)
- XIX. **The variational iteration method for fuzzy fractional differential equations with uncertainty**
Khodadadi E., ÇELİK E.
FIXED POINT THEORY AND APPLICATIONS, ss.1-7, 2013 (SCI-Expanded)
- XX. **On the Numerical Solution of Differential-Algebraic Equations with Hessenberg Index-3**
Karta M., ÇELİK E.
DISCRETE DYNAMICS IN NATURE AND SOCIETY, 2012 (SCI-Expanded)
- XXI. **Optimal control problem for stationary quasi-optic equations**
Kocak Y., ÇELİK E.
BOUNDARY VALUE PROBLEMS, 2012 (SCI-Expanded)
- XXII. **Multivariate pade approximation for solving partial differential equations (PDE)**
Turut V., ÇELİK E., Yigider M.
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS, cilt.66, sa.9, ss.1159-1173, 2011 (SCI-Expanded)
- XXIII. **The Numerical Method for Solving Differential Equations of Lane-Emden Type by Pade Approximation**
Yigider M., Tabatabaei K., ÇELİK E.
DISCRETE DYNAMICS IN NATURE AND SOCIETY, 2011 (SCI-Expanded)
- XXIV. **Chebyshev series approximation for solving differential-algebraic equations (DAEs)**
Celik E., Yeloglu T.
INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, cilt.83, ss.651-662, 2006 (SCI-Expanded)
- XXV. **The numerical solution of physical problems modeled, as a systems of differential-algebraic equations (DAEs)**
Celik E., BAYRAM M.
JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS, cilt.342, sa.1, ss.1-6, 2005 (SCI-Expanded)
- XXVI. **Numerical solution of differential-algebraic equation systems and applications**
ÇELİK E., BAYRAM M.
Applied Mathematics and Computation, cilt.154, sa.2, ss.405-413, 2004 (SCI-Expanded)
- XXVII. **On the numerical solution of chemical differential-algebraic equations by Pade series**
ÇELİK E.
Applied Mathematics and Computation, cilt.153, sa.1, ss.13-17, 2004 (SCI-Expanded)
- XXVIII. **The modified successive approximations method and padé approximants for solving the differential equation with variant retarded argumend**
ÇELİK E., AYKUT A., BAYRAM M.
Applied Mathematics and Computation, cilt.151, sa.2, ss.393-400, 2004 (SCI-Expanded)
- XXIX. **The successive approximation method and Padé approximants for solutions the non-linear boundary value problem**

- ŞİMŞEK H., ÇELİK E.
Applied Mathematics and Computation, cilt.146, ss.681-690, 2003 (SCI-Expanded)
- XXX. **Numerical solutions of chemical differential-algebraic equations**
ÇELİK E., KARADUMAN E., BAYRAM M.
Applied Mathematics and Computation, cilt.139, ss.259-264, 2003 (SCI-Expanded)
- XXXI. **On the numerical solution of differential-algebraic equations by Padé series**
ÇELİK E., BAYRAM M.
Applied Mathematics and Computation, cilt.137, sa.1, ss.151-160, 2003 (SCI-Expanded)
- XXXII. **Arbitrary order numerical method for solving differential-algebraic equation by Padé series**
ÇELİK E., BAYRAM M.
Applied Mathematics and Computation, cilt.137, sa.1, ss.57-65, 2003 (SCI-Expanded)
- XXXIII. **Numerical method to solve chemical differential-algebraic equations**
Celik E., Karaduman E., BAYRAM M.
INTERNATIONAL JOURNAL OF QUANTUM CHEMISTRY, cilt.89, sa.5, ss.447-451, 2002 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **The Solution of Linear Volterra Integral Equation of the First Kind with ZZ- Transform**
ÖZDEMİR E., ÇELİK E., ŞENER KILIÇ S. Ş.
TURKISH JOURNAL OF SCIENCE, cilt.6, sa.3, ss.127-133, 2021 (Hakemli Dergi)
- II. **Numerical Solution of Volterra Integral Equations Using Hosoya Polynomial**
GEÇMEN M. Z., ÇELİK E., DOKUYUCU M. A.
TURKISH JOURNAL OF SCIENCE, cilt.6, sa.3, ss.110-117, 2021 (Hakemli Dergi)
- III. **Prediction of Breast Cancer through Tolerance-based Intuitionistic Fuzzy-rough Set Feature Selection and Artificial Neural Network**
Lanbaran N. M., ÇELİK E.
GAZI UNIVERSITY JOURNAL OF SCIENCE, cilt.34, sa.4, ss.1064-1075, 2021 (ESCI)
- IV. **EVALUATION OF INVESTMENT OPPORTUNITIES WITH INTERVAL-VALUED FUZZY TOPSIS METHOD**
ÇELİK E., YİĞİDER M., LANBARAN MOHAMMADI N.
Applied Mathematics and Nonlinear Sciences, cilt.5, sa.1, ss.461-474, 2020 (ESCI)
- V. **Analytical and approximate solutions of Fractional Partial Differential-Algebraic Equations**
ÇELİK E., GÜNERHAN H.
Applied Mathematics and Nonlinear Sciences, cilt.5, sa.1, ss.109-120, 2020 (ESCI)
- VI. **Approximate solution of the problem of delayed variable boundary value by the CAS wavelet method**
ÇELİK E., ÖZTÜRK E. D., AYKUT A.
Communication in Mathematical Modeling and Applications, cilt.4, sa.1, ss.1-8, 2019 (Hakemli Dergi)
- VII. **Çarpımsal Cauchy-Euler ve Legendre Diferansiyel Denklemi**
YALÇIN N., ÇELİK E.
Gümüşhane Üniversitesi Fen Bilimleri Enstitüsü Dergisi, cilt.9, sa.3, ss.373-382, 2019 (Hakemli Dergi)
- VIII. **Fixed point theorem for defuzzification and its application in decision making units**
ÇELİK E., ABBASI E., SANEIFARD R.
New Trends in Mathematical Sciences, cilt.7, sa.2, ss.214-221, 2019 (Hakemli Dergi)
- IX. **A valid and advanced method for ranking the fuzzy numbers**
ÇELİK E., ABBASI E., SANEIFARD R.
Communication in Mathematical Modeling and Applications, cilt.3, ss.23-30, 2018 (Hakemli Dergi)
- X. **Improved of Approximating Function $Li(x)$**
OKUMUŞ İ., ÇELİK E.
International Journal of Engineering and Applied Sciences (IJEAS), cilt.5, 2018 (Hakemli Dergi)
- XI. **Solution of multiplicative homogeneous linear differential equations with constant exponentials**
YALÇIN N., ÇELİK E.

- New Trends in Mathematical Science, cilt.2, ss.58-67, 2018 (Hakemli Dergi)
- XII. **The Solution of Multiplicative Non-Homogeneous Linear Differential Equations**
YALÇIN N., ÇELİK E.
Journal of Applied Mathematics and Computation, cilt.2, 2018 (Hakemli Dergi)
- XIII. **Numerical Solution of Fractional Differential Equation in a Model of HIV Infection of CD4 T Cells**
ÇELİK E., SEFİDĞAR E., SHIRI B.
INTERNATIONAL JOURNAL OF APPLIED MATHEMATICS & STATISTICS, cilt.56, ss.23-32, 2017 (ESCI)
- XIV. **The One Dimensional Keller-Segel Model**
DOKUYUCU M. A., ÇELİK E.
Eastern Anatolian Journal of Science, cilt.3, ss.38-41, 2017 (Hakemli Dergi)
- XV. **FIBONACCI MATRIX POLYNOMIAL METHOD FOR LINEAR COMPLEX DIFFERENTIAL EQUATIONS**
DÜŞÜNCELİ F., ÇELİK E.
Asian Journal of Mathematics and Computer Research, cilt.15, ss.229-238, 2017 (Hakemli Dergi)
- XVI. **On the Solution of Stephan Inverse Problems**
NAJAFİ R., ALIYEV N., ÇELİK E.
New Trends in Mathematical Sciences, cilt.4, ss.174-179, 2016 (Hakemli Dergi)
- XVII. **Non Linear Difusion for Chemotaxis and Birth Death Process for Keller Segel Model**
DOKUYUCU M. A., ÇELİK E.
New Trends in Mathematical Sciences, cilt.4, ss.204-211, 2016 (Hakemli Dergi)
- XVIII. **Numerical Approximation of an Optimal Control Problem for Quasi Optics Equation**
KOÇAK Y., YILDIRIM AKSOY N., ÇELİK E.
Eastern anatolian journal of science, cilt.2, ss.67-71, 2016 (Hakemli Dergi)
- XIX. **Solving fuzzy fractional Riccati differential equations by the variational iteration method**
KHODADADI E., KARABACAK M., ÇELİK E.
International Journal of Engineering and Applied Sciences, cilt.2, ss.35-40, 2015 (Hakemli Dergi)
- XX. **The Numerical Solution of Fractional Differential Algebraic Equations FDAEs by Haar Wavelet Functions**
KARABACAK M., ÇELİK E.
International Journal of Engineering and Applied Sciences, cilt.2, ss.65-71, 2015 (Hakemli Dergi)
- XXI. **Solutions of Sequential Conformable Fractional Differential Equations around an Ordinary Point and Conformable Fractional Hermite Differential Equation**
ÜNAL E., GÖKDOĞAN A., ÇELİK E.
British Journal of Applied Science & Technology, cilt.10, ss.1-11, 2015 (Hakemli Dergi)
- XXII. **An Effective Tool: Numerical Solutions by Legendre Polynomials for High-order Linear Complex Differential Equations**
FARUK D., ÇELİK E.
British Journal of Applied Science Technology, cilt.8, ss.348-355, 2015 (Hakemli Dergi)
- XXIII. **The numerical solution of fractional differential algebraic equations by Haar wavelet functions**
ÇELİK E., KARABACAK M.
International Journal of Engineering and Applied Sciences, cilt.2, sa.2, 2015 (Hakemli Dergi)
- XXIV. **Well posedness of Optimal Control Problem for the Schrödinger Equations with Complex Potential**
ÇELİK E., KOÇAK Y., DOKUYUCU M. A.
International Journal of Mathematics and Computation, cilt.26, 2015 (Hakemli Dergi)
- XXV. **On a Stability Theorem of the Optimal Control Problem For Quasi Optic Equation**
KOÇAK Y., ÇELİK E., YILDIRIM AKSOY N.
Journal of Progressive Research in Mathematics, cilt.5, ss.487-492, 2015 (Hakemli Dergi)
- XXVI. **Numerical Solution of Fractional Partial Differential Algebraic Equations**
ÇELİK E., Tabatabaei K., Gunerhan E.
AASCIT Communications, cilt.2, sa.5, ss.230-236, 2014 (Hakemli Dergi)
- XXVII. **Numerical Solution of Fractional Partial Differential Algebraic Equation by Adomian Decomposition Method and Multivariate Pade Approximation**

- ÇELİK E., YİĞİDER M., KÜÇÜK G. D.
British Journal of Applied Science Technology, cilt.4, sa.25, 2014 (Hakemli Dergi)
- XXVIII. **The Numerical Solution of Fractional Differential Algebraic Equations FDAEs**
KARABACAK M., ÇELİK E.
New Trends in Mathematical Sciences, cilt.1, ss.1-6, 2013 (Hakemli Dergi)
- XXIX. **solving a Class of Volterra Integral Equation Systems by the Differential Transform Method**
ÇELİK E.
International Journal of Nonlinear Science, cilt.16, sa.1, ss.87-91, 2013 (Hakemli Dergi)
- XXX. **The Numerical Solution of Fractional Differential Algebraic Equations**
ÇELİK E., KARABACAK M.
New Trends in Mathematical Sciences, cilt.1, sa.2, ss.1-6, 2013 (Hakemli Dergi)
- XXXI. **The differential transform method for solving heat-like and wave-like equations with variable coefficients**
Tabatabaei K., ÇELİK E., Tabatabaei R.
TURKISH JOURNAL OF PHYSICS, cilt.36, sa.1, ss.87-98, 2012 (ESCI)
- XXXII. **The Numerical Solution of Partial Differential Algebraic Equations by Multivariate Padé Approximation**
ÇELİK E., YİĞİDER M.
EUROPEAN JOURNAL OF PURE AND APPLIED MATHEMATICS, cilt.4, ss.67-75, 2011 (Hakemli Dergi)
- XXXIII. **Least Squares Approximations for Solving Differential Algebraic Equations**
ÇELİK E., AKAR M.
World Applied Sciences Journal, cilt.11, sa.8, 2010 (Hakemli Dergi)
- XXXIV. **On the Numerical Solution of Differential Algebraic equations with Index 2 by Chebyshev Approximation**
ÇELİK E., YELOĞLU T.
International Journal of Applied Mathematics and Statistics, cilt.14, ss.47-57, 2008 (ESCI)
- XXXV. **Application of Gröbner Bases Theory to Derive Steady State Rate Equations in Biochemical Kinetic Theory**
ÇELİK E., BAYRAM M., GÜZEL N.
International Journal of Applied Mathematics and Statistics, cilt.3, ss.51-59, 2005 (ESCI)
- XXXVI. **Chebyshev Approximation for Numerical Solution of Differential Algebraic Equations**
ÇELİK E., BAYRAM M.
International Journal of Applied Mathematics and Statistics, cilt.2, ss.29-39, 2004 (ESCI)

Kitap & Kitap Bölümleri

- I. **Diferansiyel Denklemler, Lineer Programlama**
ÇELİK E.
Matematik II, Tamer UĞUR, Editör, Atatürk Üniversitesi Açıköğretim Fakültesi, Erzurum, 2016
- II. **Transandant Fonksiyonlar**
ÇELİK E., BAYRAM M.
Thomas Kalkülüs, Mustafa Bayram, Editör, PEARSON, 2011

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **The Solution of Linear Volterra Integral Equation of The First Kind Aboodh Transform**
ÇELİK E., KOTAN Ö.
4th INTERNATIONAL CONFERENCE ON MATHEMATICAL AND RELATED SCIENCES ICMRS 2021, Türkiye, 22 Ekim 2021

- II. **Analyzing a West Nile Virus Model in the Sense of Atangana-Baleanu Fractional Operator**
ÇELİK E., DOKUYUCU M. A., DUTTA H.
4th INTERNATIONAL CONFERENCE ON MATHEMATICAL AND RELATED SCIENCES ICMRS 2021, Türkiye, 22 Ekim 2021
- III. **On Optimal Control of the Initial Velocity of an Euler-Bernoulli Beam System**
ÇELİK E., SARAÇ Y., ENGİN A.
4th INTERNATIONAL CONFERENCE ON MATHEMATICAL AND RELATED SCIENCES ICMRS 2021, 22 Ekim 2021
- IV. **Using Fuzzy-Rough Subset Evaluation for Feature Selection and Naive Bayes to Classify the Parkinson's Disease**
ÇELİK E., LANBARAN MOHAMMADI N.
The 9th International Online Conference on "Mathematical Analysis, Differential Equation & Applications MADEA 9, Bishkek, Kırgızistan, 21 Haziran 2021
- V. **Comparison of Modal Assurance Criteria with Fuzzy Similarity to Detect Damage to Structures**
ÇELİK E., LANBARAN MOHAMMADI N.
The Fifth International Conference on Computational Mathematics and Engineering Sciences (CMES-2021), Van, Türkiye, 08 Haziran 2021
- VI. **Numerical Solution of Volterra Integral Equations with Hosoya Polynomials**
ÇELİK E., GEÇMEN M. Z., DOKUYUCU M. A.
The Fifth International Conference on Computational Mathematics and Engineering Sciences (CMES-2021), Van, Türkiye, 08 Haziran 2021
- VII. **Approximate-analytical method for solving the nonlinear fractional Ebola Virus mathematical model**
ÇELİK E., GÜNERHAN H.
The Fifth International Conference on Computational Mathematics and Engineering Sciences (CMES-2021), Van, Türkiye, 08 Haziran 2021
- VIII. **The Solution of The Linear Differential-Difference Equations with Aboodh Transform**
ÇELİK E., Kotan Ö.
The Fifth International Conference on Computational Mathematics and Engineering Sciences (CMES-2021), Van, Türkiye, 08 Haziran 2021
- IX. **On Survey of the Some Wave Solutions of the Nonlinear Schrödinger Equation in Infinite Water Depth**
ÇELİK E., BULUT H., YEL G., YAZĞAN T.
The Fifth International Conference on Computational Mathematics and Engineering Sciences (CMES-2021), Van, Türkiye, 08 Haziran 2021
- X. **The Solution of First Kind Linear Volterra Integral Equations with ZZ Transform**
ÇELİK E., ÖZDEMİR E.
The Fifth International Conference on Computational Mathematics and Engineering Sciences (CMES-2021), Van, Türkiye, 08 Haziran 2021
- XI. **Numerical Solution of Volterra-Fredholm Integral Equations Using Hosoya Polynomial**
Çelik E., Geçmen M. Z.
3rd International Conference on Mathematical and Related Sciences: Current Trends and Developments (ICMRS 2020), Antalya, Türkiye, 20 - 22 Kasım 2020
- XII. **Breast cancer prediction by using of Tolerancebased intuitionistic fuzzy-rough set feature selection method and machine learning**
Çelik E., Lanbaran Mohammadi N.
3rd International Conference on Mathematical and Related Sciences: Current Trends and Developments (ICMRS 2020), Antalya, Türkiye, 20 - 22 Kasım 2020
- XIII. **On Analytical Approach for Time Regularized Long Wave Equation**
Çelik E., Durur H., Yokuş A.
7th International Conference on Recent Advances in Pure and Applied Mathematics (ICRAPAM), Muğla, Türkiye, 25 - 28 Eylül 2020
- XIV. **Malkus waterwheel model with constant proportional Caputo operatör**

- Çelik E., Dokuyucu M. A.
7th International Conference on Recent Advances in Pure and Applied Mathematics (ICRAPAM), Muğla, Türkiye, 25 - 28 Eylül 2020
- XV. **A Smoking Habit Model via constant proportional Caputo operatör**
Çelik E., Dokuyucu M. A.
7th International Conference on Recent Advances in Pure and Applied Mathematics (ICRAPAM), Muğla, Türkiye, 25 - 28 Eylül 2020
- XVI. **Convection-Diffusion Equation with CaputoFabrizio Derivative**
DOKUYUCU M. A., ÇELİK E., GÜNERHAN H.
4th INTERNATIONAL CONFERENCE ON ADVANCES IN NATURAL APPLIED SCIENCES, 19 - 21 Haziran 2019
- XVII. **The Solution of Differential Equations via Collocation Method Based on Bessel Polynomials**
ÇELİK E., DÜŞÜNCELİ F., CENGİZ F. B., GEÇMEN M. Z.
The Fourth International Conference on Computational Mathematics and Engineering Sciences (CMES-2019), 20 - 22 Nisan 2019
- XVIII. **Analytical and Approximate Solution of Two-Dimensional Convection-Diffusion Equations**
ÇELİK E., LANBARAN MOHAMMADI N., YİĞİDER M.
The Fourth International Conference on Computational Mathematics and Engineering Sciences (CMES-2019), 20 - 22 Nisan 2019
- XIX. **Analysis of a Nonlinear Alcoholism Model via new Fractional Operator**
ÇELİK E., DÜŞÜNCELİ F., CENGİZ F. B., GEÇMEN M. Z.
The Fourth International Conference on Computational Mathematics and Engineering Sciences (CMES-2019), 20 - 22 Nisan 2019
- XX. **Fuzzy Rough Fuzz,fication in Data Mining and Decision Making**
ÇELİK E., LANBARAN MOHAMMADI N., YİĞİDER M.
The Fourth International Conference on Computational Mathematics and Engineering Sciences (CMES-2019), 20 - 22 Nisan 2019
- XXI. **Analysis of the Hunter-Saxton Equation With Caputo-Fabrizio Fractional Derivative**
DOKUYUCU M. A., ÇELİK E.
InternationalSyposium on Applied Sciences andEngineering (ISESA2018), 26 - 28 Aralık 2018
- XXII. **GegenbauerPolynomial Method for Linear Complex Differential Equations**
DÜŞÜNCELİ F., ÇELİK E.
the 8-th International Joint Youth Science Forum «litteris Et Artibus», 22 - 24 Kasım 2018
- XXIII. **New Exact Solutions for the Doubly Dispersive Equation Using an Improved Bernoulli Sub-Equation Function Method**
ÇELİK E., DÜŞÜNCELİ F., AŞKIN M.
International Conference on Applied Mathematics in Engineering, 27 - 29 Haziran 2018
- XXIV. **Approximate Solution of Delayed Variable Boundary Value Problem by the Cas Wavelet Meyhod**
ÇELİK E., ÖZTÜRK E. D., AYKUT A.
7th International Conference on Applied Analysis and Mathematical Modeling, 20 - 24 Haziran 2018
- XXV. **7th International Conference on Applied Analysis and Mathematical Modeling**
ÇELİK E., YALÇIN N.
7th International Conference on Applied Analysis and Mathematical Modeling, 20 - 24 Haziran 2018
- XXVI. **Numerical Solution of Logistic Equation, International Conference on Advances in Natural and Applied Sciences (ICANAS 2018)**
ÇELİK E., DOKUYUCU M. A.
International Conference on Advances in Natural and Applied Sciences (ICANAS 2018), 09 Mayıs 2018
- XXVII. **Numerical Analysis on Mathematical Models of Tumour Growth and Treatment**
ÇELİK E., DOKUYUCU M. A.
International Conference on Advances in Natural and Applied Sciences (ICANAS 2018), 9 - 12 Mayıs 2018
- XXVIII. **On the Existence and Uniqueness of the Solutions of Space and Time Fractional Telegraph Equations**
ÇELİK E., NAJAFİ R., KÜÇÜK G. D.

The Third International Conference on Computational Mathematics and Engineering Sciences (CMES-2018), 4 - 06 Mayıs 2018

- XXIX. **Analysis of Logistic Equation with Atangana-Baleanu Derivative with Fractional Order**
ÇELİK E., DOKUYUCU M. A., CENGİZ F. B.
The Third International Conference on Computational Mathematics and Engineering Sciences (CMES-2018), 4 - 06 Mayıs 2018
- XXX. **Analysis of Cancer Treatment Model with a Fractional Derivative without Singular Kernel**
ÇELİK E., DOKUYUCU M. A., GEÇMEN M. Z.
The Third International Conference on Computational Mathematics and Engineering Sciences (CMES-2018), 4 - 06 Mayıs 2018
- XXXI. **Pellmatrix Polynomial Method for Linear Complex Differential Equations**
DÜŞÜNCELİ F., ÇELİK E., BAŞKONUŞ H. M.
International Conference on Current Scenario in Pure and Applied Mathematics (ICCSPAM 2018), 14 - 16 Şubat 2018
- XXXII. **Analysis of the Tumor Growth and Treatment Model**
DOKUYUCU M. A., ÇELİK E.
International Conference on Current Scenario in Pure and Applied Mathematics (ICCSPAM 2018), 14 - 16 Şubat 2018
- XXXIII. **On the New Fractional Derivative to Cancer Treatment Model**
DOKUYUCU M. A., ÇELİK E.
International Conference on Current Scenario in Pure and Applied Mathematics (ICCSPAM 2018), 14 - 16 Şubat 2018
- XXXIV. **Soliton Solutions of Wu-Zhang System by Generalized Kudryashov Method**
Tuluçe Demiray S., BULUT H., ÇELİK E.
7th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA), Kyiv, Ukrayna, 28 - 31 Ağustos 2018, cilt.2037
- XXXV. **Uncertainty Representation of Grey Systems and Interval Valued Fuzzy Sets**
MOHAMMADI N., YİĞİDER M., ÇELİK E.
4th International Conference on Pure and Applied Sciences: Renewable Energies, 23 - 25 Kasım 2017
- XXXVI. **On The Numerical Solution of Differential-Algebraic Equations (DAEs) by Lucas Polynomials**
BULUR B., ÇELİK E.
4th International Conference on Pure and Applied Sciences: Renewable Energies, 23 - 25 Kasım 2017
- XXXVII. **A comparative study of Caputo-Fabrizio and Atangana-Baleanu Derivatives for fractional birth-death process**
DOKUYUCU M. A., ÇELİK E.
II. International Igdir Symposium, 9 - 11 Ekim 2017
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DOKUYUCU M. A., ÇELİK E.
II. International Igdir Symposium, 9 - 11 Ekim 2017
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KÜÇÜK G. D., NAJAFI R., ÇELİK E.
II. International Igdir Symposium, 9 - 11 Ekim 2017
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ÇELİK E., BULUT H., BAŞKONUŞ H. M.
Ukrainian Conference on Applied Mathematics, 28 - 30 Eylül 2017
- XLI. **Numerical Solution for Linear Complex Differential Equations via Pell Matrix Polynomial**
DÜŞÜNCELİ F., ÇELİK E.
Caucasian Mathematics Conference II (CMC II), 22 - 24 Ağustos 2017
- XLII. **An Improved Parametric Approach for Ranking Fuzzy Numbers**

- ABBASİ E., SANEİFARD R., ÇELİK E.
INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELING, 3 - 07 Temmuz 2017
- XLIII. **Numerical approximation of the Keller-Segel Model with new fractional derivative**
DOKUYUCU M. A., ÇELİK E.
INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELING, 03 Temmuz 2017
- XLIV. **An advanced ranking approach for generalized fuzzy numbers based on Euclidian distance idea**
ABBASİ E., SANEİFARD R., ÇELİK E.
INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELING, 3 - 07 Temmuz 2017
- XLV. **Nonlinear solutions of the space- and time-fractional coupled Burgers equations**
TURUT V., ÇELİK E.
INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELING, 3 - 07 Temmuz 2017
- XLVI. **Analysis of Keller-Segel Model with Caputo and Caputo-Fabrizio Derivatives**
DOKUYUCU M. A., ÇELİK E.
2nd International Conference on Computational Mathematics and Engineering Sciences, 20 - 22 Mayıs 2017
- XLVII. **Lucas Matrix Polynomial Method for Linear Complex Differential Equations**
DÜŞÜNCELİ F., ÇELİK E.
International Conference on Mathematics and Mathematics Education, Şanlıurfa, Türkiye, 11 - 13 Mayıs 2017
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YALÇIN N., ÜNAL E., ÇELİK E.
International Conference on Mathematics and Mathematics Education, 11 - 13 Mayıs 2017
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SEFİDĞAR E., ÇELİK E., SHİRİ B.
2nd International Conference on Advances in Natural and Applied Sciences, 18 - 21 Nisan 2017
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MOHAMMADI N., ÇELİK E., YİĞİDER M.
2nd International Conference on Advances in Natural and Applied Sciences, 18 - 21 Nisan 2017
- LI. **Analysis of the Keller-Segel Model with the Caputo Fractional Derivative**
DOKUYUCU M. A., ÇELİK E., BULUR B.
2nd International Conference on Advances in Natural and Applied Sciences, 18 - 21 Nisan 2017
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International Conference on Advances in Natural and Applied Sciences, Antalya, Türkiye, 21 - 23 Nisan 2016
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KOÇAK Y., ÇELİK E.
The 9th Dynamical Systems and Applications, 20 - 23 Temmuz 2016
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SEFİDĞAR E., ÇELİK E.
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2nd International Conference on Pure & Applied Science, İstanbul, Türkiye, 1 - 05 Haziran 2016
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2nd International Conference on Pure & Applied Science, İstanbul, Türkiye, 1 - 05 Haziran 2016

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2nd International Conference on Pure & Applied Science, İstanbul, Türkiye, 1 - 05 Haziran 2016
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2nd International Conference on Pure Applied Science, İstanbul, Türkiye, 1 - 05 Haziran 2016
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International Conference for Engineering and Technology, 23 - 26 Mayıs 2016
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International Conference on Mathematics and Mathematics Education(ICMME-2016), Elazığ, Türkiye, 12 - 14 Mayıs 2016
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International Conference on Mathematics and Mathematics Education(ICMME-2016), Elazığ, Türkiye, 12 - 14 Mayıs 2016
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International Conference on Mathematics and Mathematics Education(ICMME-2016), Elazığ, Türkiye, 12 - 14 Mayıs 2016
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International Conference on Mathematics and Mathematics Education(ICMME-2016), Elazığ, Türkiye, 12 - 14 Mayıs 2016
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International Conference on Advancements in Mathematical Sciences, Antalya, Türkiye, 5 - 07 Kasım 2015
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CAIM 2015, 17 - 21 Eylül 2015
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elham s., ÇELİK E.
THE INTERNATIONAL CONFERENCE "MATHEMATICAL AND COMPUTATIONAL MODELLING IN SCIENCE AND TECHNOLOGY", 2 - 07 Ağustos 2015
- LXX. **Multiplicative Laplace Transform and Its Applications**
GÖKDOĞAN A., YALÇIN N., ÇELİK E.
INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELLING, İstanbul, Türkiye, 8 - 12 Haziran 2015
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INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELLING, İstanbul, Türkiye, 8 - 12 Haziran 2015
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INTERNATIONAL CONFERENCE ON APPLIED ANALYSIS AND MATHEMATICAL MODELLING, İstanbul, Türkiye, 8 - 12 Haziran 2015
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faruk d., ÇELİK E.
The numerical solution of fractional differential equations by explicit methods, İstanbul, Türkiye, 8 - 12 Haziran 2015
- LXXVI. **Well Posedness of Optimal Control Problem for the Schrodinger Equations with Complex Potential**
KOÇAK Y., DOKUYUCU M. A., ÇELİK E.
The 3rd Abu Dhabi University Annual International Conference: Mathematical Science and It's Applications, Abu Dhabi, Birleşik Arap Emirlikleri, 27 - 30 Aralık 2014
- LXXVII. **Numerical solution for high order linear complex differential equations in a circular domain**
ÇELİK E.
Second International Conference on Analysis and Applied Mathematics, Shymkent, Kazakistan, 11 - 13 Eylül 2014
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International Conference on Advances in Applied Mathematics and Mathematical Physics, İstanbul, Türkiye, 19 - 21 Ağustos 2014
- LXXIX. **The comparison between the Adomian decomposition method and Homotopy perturbation method with mean value method for solving nonlinear Fredholm integral equations**
ÇELİK E.
International Conference on Advances in Applied Mathematics and Mathematical Physics, İstanbul, Türkiye, 19 - 21 Ağustos 2014
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KOÇAK Y., ÇELİK E.
Karatekin Mathematics Days 2014, Çankırı, Türkiye, 11 - 13 Haziran 2014
- LXXXI. **Numerical Solution of Fractional Partial Differential Algebraic Equations Via Fractional Variational Iteration Method and Multivariate Padé Approximation**
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Karatekin Mathematics Days 2014, Çankırı, Türkiye, 11 - 13 Haziran 2014
- LXXXII. **Numerical solutions of linear differential-algebraic equation systems via Hartley series**
Unal E., Yalcin N., ÇELİK E.
2nd International Conference on Analysis and Applied Mathematics (ICAAM), Shymkent, Kazakistan, 11 - 13 Eylül 2014, cilt.1611, ss.290-295
- LXXXIII. **On The Numerical Solution of Differential Algebraic Equations of Fractional Order by Haar Transform Method**
KARABACAK M., YİĞİDER M., ÇELİK E.
IV International Conference of the Georgian Mathematical Union dedicated to the 110-th birthday anniversary of academician Victor Kupradze and the 90-th year anniversary of Georgian Mathematical Union, Tbilisi, Gürcistan, 9 - 15 Eylül 2013
- LXXXIV. **NUMERICAL SOLUTION OF FRACTIONAL PARTIAL DIFFERENTIAL ALGEBRAIC EQUATIONS**

- KÜÇÜK G. D., YİĞİDER M., ÇELİK E.
International Conference on Applied Analysis and Mathematical Modelling, İstanbul, Türkiye, 2 - 05 Haziran 2013
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KARABACAK M., ÇELİK E.
International Conference on Applied Analysis and Mathematical Modelling, İstanbul, Türkiye, 2 - 05 Haziran 2013
- LXXXVI. **The Numerical Solutions of Fractional Differential Algebraic Equations FDAEs by Haar Wavelet Method**
KARABACAK M., DÜŞÜNCELİ F., ÇELİK E.
International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Türkiye, 2 - 05 Haziran 2013
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International Conference on Applied Analysis and Mathematical Modelling, İstanbul, Türkiye, 2 - 05 Haziran 2013
- LXXXVIII. **An Optimal Control Problem Governed by Stationary Equation of Quasi Optic**
KOÇAK Y., ÇELİK E.
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- LXXXIX. **Classification of Factors that Affect the Speed of The RSA Cryptosystem**
OKUMUŞ İ., ÇELİK E.
Third International conference, Georgian Mathematical Union, Batumi, Gürcistan, 2 - 09 Eylül 2012
- XC. **The Numerical Solution of Fractional Differential Algebraic Equations**
KARABACAK M., YİĞİDER M., ÇELİK E.
Third International conference, Georgian Mathematical Union, Batumi, Gürcistan, 2 - 09 Eylül 2012
- XCI. **The Numerical Solutions of Fractional Differential Algebraic Equations**
KARABACAK M., YİĞİDER M., ÇELİK E.
Georgian Mathematical Union Third International Conference, Batumi, Gürcistan, 2 - 09 Eylül 2012
- XCII. **Variational Iteration Method for Fuzzy Fractional Differential Equations with Uncertainty**
ÇELİK E.
Third International conference, Georgian Mathematical Union, Batumi, Gürcistan, 2 - 09 Eylül 2012
- XCIII. **The Numerical Solutions of Partial Differential Algebraic Equations PDAEs by Multivariate Padé Approximation**
YİĞİDER M., KARABACAK M., ÇELİK E.
International Conference on Applied Analysis and Algebra, İstanbul, Türkiye, 20 - 24 Haziran 2012
- XCIV. **THE NUMERICAL SOLUTION OF PARTIAL DIFFERENTIAL ALGEBRAIC EQUATIONS PDAEs BY MULTIVARIATE PADE APPROXIMATION**
YİĞİDER M., KARABACAK M., ÇELİK E.
International Conference on Applied Analysis and Algebra, İstanbul, Türkiye, 20 - 24 Haziran 2012
- XCV. **Fast decryption algorithm for RSA**
OKUMUŞ İ., ÇELİK E.
International Conference on Applied Analysis and Algebra, İstanbul, Türkiye, 20 - 24 Haziran 2012
- XCVI. **OPTİMAL CONTROL PROBLEM FOR STATİONARY QUASİ OPTİC EQUATİON**
KOÇAK Y., ÇELİK E.
International Conference on Applied Analysis and Algebra, İstanbul, Türkiye, 20 - 24 Haziran 2012
- XCVII. **The Variational Iteration Method for Solving Fuzzy Fractional Differential Equations**
ÇELİK E.
International Conference on Applied Analysis and Algebra, İstanbul, Türkiye, 20 - 24 Haziran 2012
- XCVIII. **Numerical Solutions of the Helmholtz Equation by Multivariate Padé Approximation**
YİĞİDER M., KARABACAK M., ÇELİK E.
Georgian Mathematical Union Second International Conference, Batumi, Gürcistan, 15 - 19 Eylül 2011
- XCIX. **Stochastic Model in the Evolution of a Single Crystal**
KHODADADI E., KARABACAK M., ÇELİK E.
International Conference on Applied Analysis and Algebra, İstanbul, Türkiye, 29 Haziran - 02 Temmuz 2011

- C. **Improved of Approximating Function Li x**
OKUMUŞ İ., TOKSOY E., ÇELİK E.
International Conference on Applied Analysis and Algebra, İstanbul, Türkiye, 29 Haziran - 02 Temmuz 2011
- CI. **Stochastik Model in the Evolotion of a Single Crystal**
KARABACAK M., ÇELİK E.
International Conference on Applied Analysis and Algebra, İstanbul, Türkiye, 29 Haziran - 02 Temmuz 2011
- CII. **On the Numerical Solution of Differential Algebraic Equations DAEs with Index 3 by Padé Approximation**
KÜÇÜK G. D., ÇELİK E.
International Conference on Applied Analysis and Algebra, İstanbul, Türkiye, 29 Haziran - 02 Temmuz 2011
- CIII. **On the Numerical Solution of Differential Algebraic Equations DAEs by Using Legendre Polynomials Approximation**
AKAR M., ÇELİK E.
SIAM Conference on Analysis of Partial Differential Equations, Florida, Amerika Birleşik Devletleri, 7 - 09 Aralık 2009
- CIV. **On The Numerical Solution of Differential Algebraic equations DAEs by Least Squares Approximation**
ÇELİK E., AKAR M.
XIX. Ulusal Matematik sempozyumu, Erzurum, Türkiye, 3 - 06 Eylül 2007
- CV. **On The Numerical Solution Of Differential Algebraic Equations with Index 2 By Chebyshev Approximation**
YELOĞLU T., SEÇER A., ÇELİK E.
XVII. Ulusal Matematik sempozyumu, İstanbul, Türkiye, 4 - 08 Eylül 2005
- CVI. **Chebyshev Series Approximation for Solving Differential Algebraic Equations DAEs**
ÇELİK E., YELOĞLU T.
, XVI. Ulusal Matematik sempozyumu, Bolu, Türkiye, 23 - 26 Ağustos 2004
- CVII. **On the Numerical Solutions of Chemical Differential Algebraic Equations**
ÇELİK E., BAYRAM M.
XIV. Ulusal Matematik Sempozyumu, Eskişehir, Türkiye, 19 - 21 Eylül 2001
- CVIII. **Arbitrary Order Numerical Method for Solving Differential Algebraic Equation by Padé Series**
ÇELİK E., BAYRAM M.
Palandöken Matematik Günleri, Erzurum, Türkiye, 28 - 30 Haziran 2001
- CIX. **An Alternative Method for Simultaneous Solution of Polynomial Equations**
ÇELİK E., BAYRAM M.
XIII. Ulusal Matematik Sempozyumu, İstanbul, Türkiye, 6 - 09 Eylül 2000
- CX. **Gröbner Bazı ve Uygulamaları**
ÇELİK E., BAYRAM M.
Uygulamalı Matematik Günleri, Zonguldak, Türkiye, 11 - 12 Haziran 2000
- CXI. **Application of Gröbner Basis Techniques to Enzyme to Kinetics**
ÇELİK E., BAYRAM M.
Sarımsaklıda Matematik Günleri, Balıkesir, Türkiye, 5 - 08 Haziran 1997

Desteklenen Projeler

YILDIRIM İ., ÇELİK E., CENGİZ N., KADIOĞLU E., ÖZDEMİR M., KOPUZLU A., UĞUR T., KÜÇÜK A., GÜLTEKİN İ., KAZAZ C., et al., Yükseköğretim Kurumları Destekli Proje, Workshop on Pure and Applied Mathematics 2019, (WOPAM 2019), 2019 - 2020

ÇELİK E., KARABACAK M., GEÇMEN M. Z., Yükseköğretim Kurumları Destekli Proje, Palandöken Uygulamalı Matematik ve Mühendislik Çalıştayı, 2019 - 2019

ÇELİK E., Yükseköğretim Kurumları Destekli Proje, FRAKSİYONEL KISMİ DİFERENSİYEL CEBİRSEL DENKLEMLERİN NÜMERİK ÇÖZÜMÜ VE TEK BİR KRİSTALİN OLUŞUMUNDAKİ STOKASTİK MODEL., 2011 - 2012

Bilimsel Dergilerdeki Faaliyetler

Turkish Journal of Science., Editörler Kurulu Üyesi, 2020 - Devam Ediyor

Communication in Mathematical Modeling and Applications, Editör, 2020 - Devam Ediyor

Journal of Abstract and Computational Mathematics, Editör, 2020 - Devam Ediyor

Bilimsel Hakemlikler

TÜBİTAK Projesi, 1001 - Bilimsel ve Teknolojik Araştırma Projelerini Destekleme Programı, Atatürk Üniversitesi, Türkiye, Mayıs 2021

TÜBİTAK Projesi, 1001 - Bilimsel ve Teknolojik Araştırma Projelerini Destekleme Programı, Atatürk Üniversitesi, Türkiye, Mayıs 2021

New Trends in Mathematical Sciences, Diğer İndekslerce Taranan Dergi, Nisan 2021

TÜBİTAK Projesi, 1002 - Hızlı Destek Programı, 2021-MFAG121F091, Türkiye, Nisan 2021

New Trends in Mathematical Sciences, Diğer İndekslerce Taranan Dergi, Aralık 2020

NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, SCI Kapsamındaki Dergi, Kasım 2020

New Trends in Mathematical Sciences, Diğer İndekslerce Taranan Dergi, Kasım 2020

MATHEMATICAL SCIENCES, SCI Kapsamındaki Dergi, Kasım 2020

NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, SCI Kapsamındaki Dergi, Kasım 2020

NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, SCI Kapsamındaki Dergi, Eylül 2020

NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, SCI Kapsamındaki Dergi, Ağustos 2020

NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, SCI Kapsamındaki Dergi, Mart 2020

NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, SCI Kapsamındaki Dergi, Ocak 2020

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H-İndeks (Scopus): 12

Tanıtım ve Temsil Faaliyetleri

Kurumsal Temsil, Atatürk Üniversitesi, Fen Fakültesi, Matematik, Türkiye, Erzurum, 2019 - 2021