

## **Prof.Dr. ALİ DEMİR**

### **Kişisel Bilgiler**

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### **Eğitim Bilgileri**

Doktora, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, Matematik Anabilim Dalı, Türkiye 2004 - 2007

Yüksek Lisans, University of Illinois at Urbana-Champaign, Matematik, Matematik, Amerika Birleşik Devletleri 1995 - 1997

Lisans, İstanbul Teknik Üniversitesi, Fen-Edebiyat, Matematik Mühendisliği, Türkiye 1989 - 1993

### **Yabancı Diller**

İngilizce, C2 Ustalık

### **Yaptığı Tezler**

Doktora, Lyapunov-Schmidt indirgeme metodu ile elde edilen indirgenmiş bifurkasyon denklemi ve analizi, Kocaeli Üniversitesi, Fen Bilimleri Enstitüsü, 2007

### **Araştırma Alanları**

Temel Bilimler

### **Akademik Unvanlar / Görevler**

Prof.Dr., Kocaeli Üniversitesi, Fen Edebiyat Fakültesi, Matematik, 2021 - Devam Ediyor

Doç.Dr., Kocaeli Üniversitesi, Fen Edebiyat Fakültesi, Matematik, 2014 - 2021

Yrd.Doç.Dr., Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2007 - 2014

Araştırma Görevlisi, Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2003 - 2007

### **Akademik İdari Deneyim**

Anabilim/Bilim Dalı Başkanı, Kocaeli Üniversitesi, 2009 - Devam Ediyor

Dekan Yardımcısı, Kocaeli Üniversitesi, Fen Edebiyat Fakültesi, Matematik, 2019 - 2022

## **Verdiği Dersler**

Olasılık, Lisans, 2022 - 2023

Analiz II, Lisans, 2021 - 2022

Fonksiyonel Analiz, Lisans, 2021 - 2022

İstatistik ve Olasılık, Lisans, 2020 - 2021

Reel Analiz, Lisans, 2020 - 2021

Analiz I, Lisans, 2020 - 2021

Lineer Cebir, Lisans, 2020 - 2021

Mühendislik Matematiği I, Doktora, 2020 - 2021

## **Yönetilen Tezler**

Kodal Sevindir H., DEMİR A., Uzay-zaman kesirli diferansiyel denklemlerin çözümünün analizi, Doktora, S.ÇETİNKAYA(Öğrenci), 2023

Demir A., Kesirli diferansiyel denklemler, Yüksek Lisans, M.AKYOL(Öğrenci), 2022

Demir A., Kesirli mertebeden difüzyon denklemi için başlangıç sınır değer probleminin çözümü, Yüksek Lisans, G.LÜLECİ(Öğrenci), 2019

Demir A., Küçük gecikme içeren lineer kesirli diferansiyel denklemlerin çözümü, Yüksek Lisans, K.KARAPINAR(Öğrenci), 2019

Demir A., Durum değişkenine bağlı gecikme terimi içeren diferansiyel denklemlerin analizi, Doktora, S.ERMAN(Öğrenci), 2016

Demir A., Sinir sistemi modelinin analizi, Doktora, B.ÖZGÜR(Öğrenci), 2016

Demir A., Adomian ayrıştırma metodu ile ısı transfer denklemi için ters problem analizi, Yüksek Lisans, E.KORKMAZ(Öğrenci), 2012

## **SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler**

### **I. On the Inverse Problem of Time-Dependent Coefficient in a Time Fractional Diffusion Problem by Newly Defined Monic Laquerre Wavelets**

Bayrak M. A., Demir A.

JOURNAL OF COMPUTATIONAL AND NONLINEAR DYNAMICS, cilt.18, sa.11, 2023 (SCI-Expanded)

### **II. A novel approach for the solution of fractional diffusion problems with conformable derivative**

Bayrak M. A., Demir A., Ozbilge E.

NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, cilt.39, sa.3, ss.1870-1887, 2023 (SCI-Expanded)

### **III. Solving inverse non-linear fractional differential equations by generalized Chelyshkov wavelets**

Erman S., DEMİR A., Ozbilge E.

Alexandria Engineering Journal, cilt.66, ss.947-956, 2023 (SCI-Expanded)

### **IV. On the solution of time fractional initial value problem by a new method with ARA transform**

ÇETINKAYA S., DEMİR A.

Journal of Intelligent and Fuzzy Systems, cilt.44, sa.2, ss.2693-2701, 2023 (SCI-Expanded)

### **V. On the numerical solution of conformable fractional diffusion problem with small delay**

Bayrak M. A., Demir A., Ozbilge E.

NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, cilt.38, sa.2, ss.177-189, 2022 (SCI-Expanded)

### **VI. On Fractional Newton-Type Method for Nonlinear Problems**

Bayrak M. A., Demir A., Ozbilge E.

Journal of Mathematics, cilt.2022, 2022 (SCI-Expanded)

### **VII. An Improved Version of Residual Power Series Method for Space-Time Fractional Problems**

Bayrak M. A., Demir A., Ozbilge E.

ADVANCES IN MATHEMATICAL PHYSICS, cilt.2022, 2022 (SCI-Expanded)

- VIII. **On the Solution of Bratu's Initial Value Problem in the Liouville-Caputo Sense by ARA Transform and Decomposition Method**  
Çetinkaya S., Demir A.  
Comptes Rendus De L Academie Bulgare Des Sciences, cilt.74, sa.12, ss.1729-1738, 2021 (SCI-Expanded)
- IX. **On Effects of a New Method for Fractional Initial Value Problems**  
Kodal Sevindir H., Çetinkaya S., Demir A.  
ADVANCES IN MATHEMATICAL PHYSICS, cilt.2021, ss.1-10, 2021 (SCI-Expanded)
- X. **Solving Time Fractional Schrodinger Equation in the Sense of Local Fractional Derivative**  
Bayrak M. A., Demir A.  
JOURNAL OF COMPUTATIONAL AND NONLINEAR DYNAMICS, cilt.16, sa.8, 2021 (SCI-Expanded)
- XI. **Solution of Space-Time-Fractional Problem by Shehu Variational Iteration Method**  
Çetinkaya S., Demir A., Kodal Sevindir H.  
ADVANCES IN MATHEMATICAL PHYSICS, cilt.2021, 2021 (SCI-Expanded)
- XII. **On solution of fractional partial differential equation by the weighted fractional operator**  
Bayrak M. A., Demir A., Ozbilge E.  
Alexandria Engineering Journal, cilt.59, ss.4805-4819, 2020 (SCI-Expanded)
- XIII. **On the construction and stability analysis of the solution of linear fractional differential equation**  
Erman S., Demir A.  
APPLIED MATHEMATICS AND COMPUTATION, cilt.386, 2020 (SCI-Expanded)
- XIV. **Numerical solution of fractional diffusion equation by Chebyshev collocation method and residual power series method**  
Bayrak M. A., Demir A., Ozbilge E.  
Alexandria Engineering Journal, cilt.59, ss.4709-4717, 2020 (SCI-Expanded)
- XV. **New approaches for the solution of space-time fractional Schrodinger equation**  
Demir A., Bayrak M. A., Ozbilge E.  
ADVANCES IN DIFFERENCE EQUATIONS, cilt.2020, sa.1, 2020 (SCI-Expanded)
- XVI. **A New Approach for the Approximate Analytical Solution of Space-Time Fractional Differential Equations by the Homotopy Analysis Method**  
Demir A., Bayrak M. A., Özbilge Kahveci E.  
ADVANCES IN MATHEMATICAL PHYSICS, cilt.2019, ss.1-12, 2019 (SCI-Expanded)
- XVII. **A new approach for space-time fractional partial differential equations by residual power series method**  
Bayrak M. A., Demir A.  
APPLIED MATHEMATICS AND COMPUTATION, cilt.336, ss.215-230, 2018 (SCI-Expanded)
- XVIII. **The stability analysis of a system with two delays**  
Erman S., Sevindir H., Demir A.  
BOUNDARY VALUE PROBLEMS, 2018 (SCI-Expanded)
- XIX. **Distinguishability of a source function in a time fractional inhomogeneous parabolic equation with Robin boundary condition**  
Ozbilge E., DEMİR A.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, cilt.47, sa.6, ss.1503-1511, 2018 (SCI-Expanded)
- XX. **ON THE STABILITY OF TWO NEURON POPULATIONS INTERACTING WITH EACH OTHER**  
Ozgur B., DEMİR A.  
ROCKY MOUNTAIN JOURNAL OF MATHEMATICS, cilt.48, sa.7, ss.2337-2346, 2018 (SCI-Expanded)
- XXI. **The Solution of Initial Boundary Value Problem with Time and Space-Fractional Diffusion Equation via a Novel Inner Product**  
Sevindir H., DEMİR A.  
ADVANCES IN MATHEMATICAL PHYSICS, cilt.2018, 2018 (SCI-Expanded)
- XXII. **An Approximate Solution of the Time-Fractional Fisher Equation with Small Delay by Residual Power Series Method**  
Demir A., Bayrak M. A., Özbilge E.

- MATHEMATICAL PROBLEMS IN ENGINEERING, cilt.2018, 2018 (SCI-Expanded)
- XXIII. A note on the stability of a neural field model  
Ozgur B., Demir A., Erman S.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, cilt.47, ss.1495-1502, 2018 (SCI-Expanded)
- XXIV. An analysis on the stability of a state dependent delay differential equation  
Erman S., DEMİR A.  
OPEN MATHEMATICS, cilt.14, ss.425-435, 2016 (SCI-Expanded)
- XXV. IDENTIFICATION OF UNKNOWN COEFFICIENT IN TIME FRACTIONAL PARABOLIC EQUATION WITH MIXED BOUNDARY CONDITIONS VIA SEMIGROUP APPROACH  
Ozbilge E., Demir A.  
DYNAMIC SYSTEMS AND APPLICATIONS, cilt.24, sa.3, ss.341-348, 2015 (SCI-Expanded)
- XXVI. Numerical solution and distinguishability in time fractional parabolic equation  
DEMİR A., Kanca F., Ozbilge E.  
BOUNDARY VALUE PROBLEMS, 2015 (SCI-Expanded)
- XXVII. Inverse problem for a time-fractional parabolic equation  
Ozbilge E., DEMİR A.  
JOURNAL OF INEQUALITIES AND APPLICATIONS, 2015 (SCI-Expanded)
- XXVIII. Analysis of the inverse problem in a time fractional parabolic equation with mixed boundary conditions  
Ozbilge E., DEMİR A.  
BOUNDARY VALUE PROBLEMS, 2014 (SCI-Expanded)
- XXIX. Identification of the unknown diffusion coefficient in a linear parabolic equation via semigroup approach  
Ozbilge E., DEMİR A.  
ADVANCES IN DIFFERENCE EQUATIONS, 2014 (SCI-Expanded)
- XXX. Analysis of fractional partial differential equations by Taylor series expansion  
DEMİR A., Erman S., Ozgur B., Korkmaz E.  
BOUNDARY VALUE PROBLEMS, 2013 (SCI-Expanded)
- XXXI. Analysis of the new homotopy perturbation method for linear and nonlinear problems  
Demir A., Erman S., Ozgur B., Korkmaz E.  
BOUNDARY VALUE PROBLEMS, 2013 (SCI-Expanded)
- XXXII. Semigroup approach for identification of the unknown diffusion coefficient in a linear parabolic equation with mixed output data  
Ozbilge E., DEMİR A.  
BOUNDARY VALUE PROBLEMS, 2013 (SCI-Expanded)
- XXXIII. Identification of the unknown coefficient in a quasi-linear parabolic equation by a semigroup approach  
ÖZBİLGE E., DEMİR A.  
JOURNAL OF INEQUALITIES AND APPLICATIONS, 2013 (SCI-Expanded)
- XXXIV. Identification of the unknown boundary condition in a linear parabolic equation  
DEMİR A., ÖZBİLGE E.  
JOURNAL OF INEQUALITIES AND APPLICATIONS, 2013 (SCI-Expanded)
- XXXV. On the Inverse Problem of the Fractional Heat-Like Partial Differential Equations: Determination of the Source Function  
ÖZKUM G., DEMİR A., Erman S., Korkmaz E., Ozgur B.  
ADVANCES IN MATHEMATICAL PHYSICS, cilt.2013, 2013 (SCI-Expanded)
- XXXVI. Stability for determining the principal coefficient of parabolic equation  
Demir A., Erdem A.  
APPLIED MATHEMATICS AND COMPUTATION, cilt.219, sa.8, ss.3826-3830, 2012 (SCI-Expanded)
- XXXVII. Analysis of a semigroup approach in the inverse problem of identifying an unknown parameters  
ÖZBİLGE E., DEMİR A.

- APPLIED MATHEMATICS AND COMPUTATION, cilt.218, sa.3, ss.965-969, 2011 (SCI-Expanded)
- XXXVIII. **Analysis for the identification of an unknown diffusion coefficient via semigroup approach**  
DEMİR A., ÖZBİLGE E.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, cilt.32, sa.18, ss.2405-2415, 2009 (SCI-Expanded)
- XXXIX. **Analysis of a semigroup approach in the inverse problem of identifying an unknown coefficient**  
DEMİR A., ÖZBİLGE E.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, cilt.31, sa.14, ss.1635-1645, 2008 (SCI-Expanded)
- XL. **Parametrized fibonacci search method with k-Lucas numbers**  
DEMİR A., ÖMÜR N., ULUTAS Y. T.  
APPLIED MATHEMATICS AND COMPUTATION, cilt.198, sa.1, ss.355-360, 2008 (SCI-Expanded)
- XLI. **Trisection method by k-Lucas numbers**  
Demir A.  
APPLIED MATHEMATICS AND COMPUTATION, cilt.198, sa.1, ss.339-345, 2008 (SCI-Expanded)
- XLII. **Identification of the unknown diffusion coefficient in a linear parabolic equation by the semigroup approach**  
DEMİR A., Hasanov A.  
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, cilt.340, sa.1, ss.5-15, 2008 (SCI-Expanded)
- XLIII. **Optimization by k-Lucas numbers**  
DEMİR A., ÖMÜR N., ULUTAS Y. T.  
APPLIED MATHEMATICS AND COMPUTATION, cilt.197, sa.1, ss.366-371, 2008 (SCI-Expanded)
- XLIV. **Monotonicity of input-output mappings in inverse coefficient and source problems for parabolic equations**  
HASANOV A., Demir A., Erdem A.  
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, cilt.335, sa.2, ss.1434-1451, 2007 (SCI-Expanded)
- XLV. **Semigroup approach for identification of the unknown diffusion coefficient in a quasi-linear parabolic equation**  
Demir A., Ozbilge E.  
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, cilt.30, sa.11, ss.1283-1294, 2007 (SCI-Expanded)
- XLVI. **Delay equations with fluctuating delay related to the regenerative chatter**  
Demir A., Hasanov A., Namachchivaya N.  
INTERNATIONAL JOURNAL OF NON-LINEAR MECHANICS, cilt.41, sa.3, ss.464-474, 2006 (SCI-Expanded)
- XLVII. **Delay equations with fluctuating delay related to the regenerative chatter II analysis of reduced bifurcation equation**  
DEMİR A., HASANOĞLU A.  
Applicable Analysis, cilt.84, sa.6, ss.631-647, 2005 (SCI-Expanded)
- XLVIII. **Delay equations with fluctuating delay related to the regenerative chatter I reduced bifurcation equation**  
DEMİR A., HASANOĞLU A.  
Applicable Analysis, cilt.84, sa.5, ss.437-449, 2005 (SCI-Expanded)

## Düzen Dergilerde Yayınlanan Makaleler

- I. **Inverse Coefficient Problem by Fractional Taylor Series Method**  
Bayrak M. A., Demir A.  
ANNALS OF THE UNIVERSITY OF CRAIOVA, MATHEMATICS AND COMPUTER SCIENCE SERIES, cilt.50, sa.2, ss.292-301, 2023 (ESCI)
- II. **Diffusion Equation Including Local Fractional Derivative and Dirichlet Boundary Conditions**  
Çetinkaya S., Demir A.  
Konuralp Journal of Mathematics, cilt.11, sa.2, ss.148-154, 2023 (Hakemli Dergi)
- III. **On new aspects of Chebyshev polynomials for space-time fractional diffusion process**

- Demir A., Bayrak M. A., Bulut A., Ozbilge E., Cetinkaya S.  
APPLIED MATHEMATICS AND NONLINEAR SCIENCES, cilt.8, sa.2, ss.1051-1062, 2023 (ESCI)
- IV. **Space-Time Fractional Heat Equation's Solutions with Fractional Inner Product**  
Çetinkaya S., Demir A.  
Turkic World Mathematical Society Journal of Applied and Engineering Mathematics, cilt.13, sa.2, ss.462-469, 2023 (ESCI)
- V. **On the Solution of Mathematical Model Including Space-Time Fractional Diffusion Equation in Conformable Derivative, Via Weighted Inner Product**  
ÇETINKAYA S., DEMİR A.  
Kocaeli Journal of Science and Engineering, cilt.6, sa.1, ss.1-5, 2023 (Hakemli Dergi)
- VI. **Identification of a time-dependent diffusivity coefficient in heat-like space-time fractional differential equations**  
Bayrak M. A., Demir A.  
Journal of Amasya University the Institute of Sciences and Technology, cilt.3, sa.2, ss.11-20, 2022 (Hakemli Dergi)
- VII. **On the challenge of identifying space dependent coefficient in space-time fractional diffusion equations by fractional scaling transformations method**  
Bayrak M. A., Demir A.  
TURKISH JOURNAL OF SCIENCE, cilt.7, sa.2, ss.132-145, 2022 (Hakemli Dergi)
- VIII. **NUMERICAL SOLUTIONS OF NONLINEAR SYSTEM OF FRACTIONAL DIFFERENTIAL EQUATIONS VIA A NEW INTEGRAL TRANSFORM**  
Demir A., Çetinkaya S.  
TWMS JOURNAL OF PURE AND APPLIED MATHEMATICS, cilt.12, sa.3, ss.1061-1068, 2022 (Hakemli Dergi)
- IX. **Solutions of Fuzzy Time Fractional Heat Equation**  
ÇETINKAYA S., DEMİR A.  
Journal of Mathematical Extension, cilt.22, sa.6, 2022 (ESCI)
- X. **SOLUTIONS FOR THE FRACTIONAL MATHEMATICAL MODELS OF DIFFUSION PROCESS**  
Çetinkaya S., Bayrak M. A., Demir A., Baleanu D.  
FACTA UNIVERSITATIS-SERIES MATHEMATICS AND INFORMATICS, cilt.37, sa.1, ss.103-120, 2022 (ESCI)
- XI. **Time fractional problem via inner product including weighted function**  
ÇETINKAYA S., DEMİR A.  
Balikesir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, cilt.24, 2022 (Hakemli Dergi)
- XII. **Effects of the ARA transform method for time fractional problems**  
ÇETINKAYA S., DEMİR A.  
Centre for Evaluation in Education and Science (CEON/CEES), cilt.26, 2022 (Hakemli Dergi)
- XIII. **ON THE INTEGRAL TRANSFORM SHEHU FOR NONLINEAR FRACTIONAL PROBLEMS**  
ÇETINKAYA S., DEMİR A.  
MELDAR : REVISTA INTERNACIONAL DE ESTUDIOS SEFARDÍES, 2022 (Hakemli Dergi)
- XIV. **DIFFUSION EQUATION INCLUDING A LOCAL FRACTIONAL DERIVATIVE AND WEIGHTED INNER PRODUCT**  
ÇETINKAYA S., DEMİR A.  
JOURNAL OF APPLIED MATHEMATICS AND COMPUTATIONAL MECHANICS, cilt.21, sa.1, ss.19-27, 2022 (ESCI)
- XV. **A New Iterative Algorithm for the Time-Fractional Fisher Equation Including Small Delay**  
Demir A., Bayrak M. A.  
Konuralp journal of mathematics, cilt.10, sa.1, ss.1-10, 2022 (Hakemli Dergi)
- XVI. **Time fractional problem via inner product including weighted function**  
ÇETINKAYA S., DEMİR A.  
Journal of Balikesir University Institute of Science and Technology, cilt.24, sa.1, ss.91-98, 2022 (Hakemli Dergi)
- XVII. **Analysis of fractional Fokker-Planck equation with Caputo and Caputo-Fabrizio derivatives**  
ÇETINKAYA S., DEMİR A., BALEANU D.  
Annals of the University of Craiova, Mathematics and Computer Science Series, cilt.48, sa.2, ss.334-348, 2021 (ESCI)

- XVIII. DETERMINATION OF TIME DEPENDENT DIFFUSION COEFFICIENT IN TIME FRACTIONAL DIFFUSION EQUATIONS BY FRACTIONAL SCALING TRANSFORMATIONS METHOD  
Bayrak M. A., Demir A.  
BULLETIN OF THE INSTITUTE OF MATHEMATICS ACADEMIA SINICA NEW SERIES, cilt.16, sa.4, ss.303-319, 2021 (ESCI)
- XIX. A NEW APPROACH FOR THE APPROXIMATE SOLUTION OF FRACTIONAL INTEGRO-DIFFERENTIAL EQUATIONS  
Bayrak M. A., Demir A.  
BULLETIN OF THE INSTITUTE OF MATHEMATICS ACADEMIA SINICA NEW SERIES, cilt.16, sa.3, ss.193-215, 2021 (ESCI)
- XX. Sequential space fractional diffusion equation's solutions via new inner product  
ÇETİNKAYA S., DEMİR A.  
ASIAN-EUROPEAN JOURNAL OF MATHEMATICS, cilt.14, sa.7, 2021 (ESCI)
- XXI. Sequential time space fractional diffusion equation including nonhomogenous initial boundary conditions  
ÇETİNKAYA S., DEMİR A.  
TBILISI MATHEMATICAL JOURNAL, cilt.14, sa.2, ss.83-91, 2021 (ESCI)
- XXII. ON SOLUTIONS OF HYBRID TIME FRACTIONAL HEAT PROBLEM  
ÇETİNKAYA S., DEMİR A.  
BULLETIN OF THE INSTITUTE OF MATHEMATICS ACADEMIA SINICA NEW SERIES, cilt.16, sa.1, ss.49-62, 2021 (ESCI)
- XXIII. SOLUTION OF HYBRID TIME FRACTIONAL DIFFUSION PROBLEM VIA WEIGHTED INNER PRODUCT  
ÇETİNKAYA S., DEMİR A.  
JOURNAL OF APPLIED MATHEMATICS AND COMPUTATIONAL MECHANICS, cilt.20, sa.2, ss.17-27, 2021 (ESCI)
- XXIV. NUMERICAL SOLUTIONS OF NONLINEAR FRACTIONAL DIFFERENTIAL EQUATIONS VIA LAPLACE TRANSFORM  
Cetinkaya S., Demir A.  
FACTA UNIVERSITATIS-SERIES MATHEMATICS AND INFORMATICS, cilt.36, sa.2, ss.249-257, 2021 (ESCI)
- XXV. Hybrid Fractional Diffusion Problem with Dirichlet Boundary Conditions  
ÇETİNKAYA S., DEMİR A.  
JOURNAL OF MATHEMATICAL EXTENSION, cilt.15, sa.26, ss.1-15, 2021 (ESCI)
- XXVI. DIFFUSION EQUATION INCLUDING LOCAL FRACTIONAL DERIVATIVE AND NON-HOMOGENOUS DIRICHLET BOUNDARY CONDITIONS  
ÇETİNKAYA S., DEMİR A.  
Journal of Scientific Reports-A, sa.45, ss.101-110, 2020 (Hakemli Dergi)
- XXVII. Diffusion Equation Including Local Fractional Derivative and Non-Homogenous Dirichlet Boundary Conditions  
Çetinkaya S., Demir A.  
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- XXVIII. DIFFUSION EQUATION INCLUDING LOCAL FRACTIONAL DERIVATIVE AND NON-HOMOGENOUS DIRICHLET BOUNDARY CONDITIONS  
Çetinkaya S., Demir A.  
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- XXIX. Time Fractional Equation Including Non-homogenous Dirichlet Boundary Conditions  
Çetinkaya S., Demir A.  
Sakarya University Journal of Science, cilt.6, sa.24, ss.1185-1190, 2020 (Hakemli Dergi)
- XXX. THE ANALYTIC SOLUTION OF INITIAL BOUNDARY VALUE PROBLEM INCLUDING TIME FRACTIONAL DIFFUSION EQUATION  
Çetinkaya S., Demir A., Kodal Sevindir H.  
FACTA UNIVERSITATIS-SERIES MATHEMATICS AND INFORMATICS, cilt.35, sa.1, ss.243-252, 2020 (ESCI)
- XXXI. Equation Including Local Fractional Derivative and Neumann Boundary Conditions

- ÇETINKAYA S., DEMİR A.  
Kocaeli Journal of Science and Engineering, cilt.3, sa.2, 2020 (Hakemli Dergi)
- XXXII. **The Analytic Solution of Sequential Space-Time Fractional Diffusion Equation Including Periodic Boundary Conditions**  
Çetinkaya S., Demir A., Kodal Sevindir H.  
JOURNAL OF MATHEMATICAL ANALYSIS, cilt.11, sa.1, ss.17-28, 2020 (ESCI)
- XXXIII. **The Analytic Solution of Initial Periodic Boundary Value Problem Including Sequential Time Fractional Diffusion Equation**  
Çetinkaya S., Demir A., Kodal Sevindir H.  
COMMUNICATIONS IN MATHEMATICS AND APPLICATIONS, cilt.11, ss.173-179, 2020 (ESCI)
- XXXIV. **ON THE EXISTENCE AND UNIQUENESS OF SOLUTIONS FOR A FIRST AND SECOND-ORDER DISCRETE BOUNDARY VALUE PROBLEM**  
Coskun A., Demir A.  
JOURNAL OF MATHEMATICAL ANALYSIS, cilt.11, sa.2, ss.86-101, 2020 (ESCI)
- XXXV. **Time Fractional Diffusion Equation with Periodic Boundary Conditions**  
Çetinkaya S., Demir A.  
Konuralp Journal of Mathematics, cilt.8, sa.2, ss.337-342, 2020 (Hakemli Dergi)
- XXXVI. **On the Solutions of Linear Fractional Differential Equations of Order  $2q$  Including Small Delay Where  $0 < q < 1$**   
Demir A., Karapinar K., Erman S.  
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- XXXVII. **On time-fractional Lotka-Volterra diffusion model**  
Demir A., Bayrak M. A.  
New Trends in Mathematical Science, cilt.3, sa.7, ss.178-285, 2019 (Hakemli Dergi)
- XXXVIII. **A New Approach for the Solution of Space-Time Fractional Order Heat-Like Partial Differential Equations by Residual Power Series Method**  
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- XXXIX. **The Analytic Solution of Time-Space Fractional Diffusion Equation via New Inner Product with Weighted Function**  
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- XL. **An Inverse Source Problem in Time-Space Fractional Differential Equations**  
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- VI. A new approach to differential equations using clique collocation method**  
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- XX. On The Existence And Uniqueness Of Solutions For A First And Second-Order Discrete Boundary Value Problem  
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- XXVIII. **A new approach for space-time fractional partial differential equations by Residual power series method**  
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- XXX. **A new approach for the solution of space-time fractional order heat-like partial differential equations by Residual power series method**  
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- XXXII. **On the Stability of a Neural Field Model**  
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- XXXVI. **Inverse Problem of Determining Source Function in a Linear Parabolic Equation by Adomian Decomposition Method**  
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## Desteklenen Projeler

DEMİR A., Yükseköğretim Kurumları Destekli Proje, BİRDEN FAZLA DURUM DEĞİŞKENİNÉ BAĞLI GEÇME TERİMİ İÇEREN, 2014 - 2015

## Metrikler

Yayın: 142  
Atıf (WoS): 318  
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