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Kişisel Bilgiler

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Publons / Web Of Science ResearcherID: P-8635-2015

ScopusID: 57150467300

Yoksis Araştırmacı ID: 171364

Eğitim Bilgileri

Doktora, Eskişehir Osmangazi Üniversitesi, FEN BİLİMLERİ ENSTİTÜSÜ, Matematik-Bilgisayar Bilimleri (Dr), Türkiye 2012 - 2015

Yüksek Lisans, Eskişehir Osmangazi Üniversitesi, FEN BİLİMLERİ ENSTİTÜSÜ, Matematik-Bilgisayar Bilimleri (YI) (Tezli), Türkiye 2009 - 2012

Lisans, Eskişehir Osmangazi Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, Türkiye 2006 - 2009

Yabancı Diller

İngilizce, B2 Orta Üstü

Yaptığı Tezler

Doktora, Bazı kısmi diferensiyel denklem sistemlerinin üstel kübik B-spline kolokeyşin çözümlerinin üretilmesi, Eskişehir Osmangazi Üniversitesi, FEN BİLİMLERİ ENSTİTÜSÜ, Matematik-Bilgisayar Bilimleri (Dr), 2015

Yüksek Lisans, Singularly perturbed diferensiyel denkleminin geometrik olarak değişen sonlu elemanlarda B-spline fonksiyonları yardımıyla çözümü, Eskişehir Osmangazi Üniversitesi, FEN BİLİMLERİ ENSTİTÜSÜ, Matematik-Bilgisayar Bilimleri (YI) (Tezli), 2012

Araştırma Alanları

Matematik

Akademik Unvanlar / Görevler

Araştırma Görevlisi Dr., Eskişehir Osmangazi Üniversitesi, FEN FAKÜLTESİ, MATEMATİK VE BİLGİSAYAR BİLİMLERİ BÖLÜMÜ, 2009 - Devam Ediyor

Verdiği Dersler

Analiz, Lisans, 2021 - 2022
Nümerik Analiz, Lisans, 2021 - 2022
Genel Matematik I, Lisans, 2021 - 2022
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Diferensiyel Denklemler, Lisans, 2016 - 2017
Fark Denklemleri II, Lisans, 2016 - 2017
Nümerik Analiz II, Lisans, 2016 - 2017
Fark Denklemleri II, Lisans, 2016 - 2017
Matematik I, Lisans, 2016 - 2017

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **A computational method for nonlinear Burgers' equation using quartic-trigonometric tension B-splines**
Yigit G., ERSOY HEPSON Ö., Allahviranloo T.
Mathematical Sciences, cilt.18, sa.1, ss.17-28, 2024 (SCI-Expanded)
- II. **High Order Predictor–Corrector Cubic B-Spline Collocation Method for Modeling Solitary Waves**
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- III. **Integration of the RLW equation using higher-order predictor–corrector scheme and quintic B-spline collocation method**
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- IV. **A numerical scheme for the wave simulations of the Kuramoto–Sivashinsky model via quartic-trigonometric tension B-spline**
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- V. **A quartic trigonometric tension B-spline finite element method for solving Gardner equation**
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- VI. **A higher-order efficient approach to numerical simulations of the RLW equation**
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Pramana - Journal of Physics, cilt.96, sa.1, 2022 (SCI-Expanded)
- VII. **The cubic B-spline least-squares finite-element method for the numerical solutions of regularized long-wave equation**
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- VIII. **Solitary waves of the RLW equation via least squares method**
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- IX. **Quartic-trigonometric tension B-spline Galerkin method for the solution of the advection-diffusion equation**
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- X. **Numerical simulations of reaction–diffusion systems in biological and chemical mechanisms with quartic-trigonometric B-splines**
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- XI. **Numerical simulations of Kuramoto-Sivashinsky equation in reaction-diffusion via Galerkin method**
 Ersoy Hepson Ö.
 MATHEMATICAL SCIENCES, cilt.15, sa.2, ss.199-206, 2021 (SCI-Expanded)
- XII. **Numerical investigation of the solutions of Schrödinger equation with exponential cubic B-spline finite element method**
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- XIII. **Hyperbolic-trigonometric tension B-spline Galerkin approach for the solution of Fisher equation**
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- XIV. **Hyperbolic-trigonometric tension B-spline Galerkin approach for the solution of RLW equation**
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- XV. **Exponential B-spline collocation solutions to the Gardner equation**
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- XVI. **A quartic trigonometric tension b-spline algorithm for nonlinear partial differential equation system**
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 Engineering Computations (Swansea, Wales), cilt.38, sa.5, ss.2293-2311, 2020 (SCI-Expanded)
- XVII. **Sine-Gordon expansion method for exact solutions to conformable time fractional equations in RLW-classac**
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- XVIII. **Exponential Twice Continuously Differentiable B-Spline Algorithm for Burgers' Equation**
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- XIX. **Numerical solutions of the Gardner equation by extended form of the cubic B-splines**
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- XX. **Traveling waves in rational expressions of exponential functions to the conformable time fractional Jimbo-Miwa and Zakharov-Kuznetsov equations**
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- XXI. **Motion of Patterns Modeled by the Gray-Scott Autocatalysis System in One Dimension**
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- XXII. **Exponential B-Splines for Numerical Solutions to Some Boussinesq Systems for Water Waves**
 ERSOY HEPSON Ö., KORKMAZ A., DAĞ İ.
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- XXIII. **The exponential cubic B-spline algorithm for Fisher equation**
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- XXIV. **The Exponential Cubic B-Spline Collocation Method for the Kuramoto-Sivashinsky Equation**
 ERSOY HEPSON Ö., DAĞ İ.
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- XXV. **Numerical solutions of the reaction diffusion system by using exponential cubic B-spline collocation algorithms**
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Diğer Dergilerde Yayınlanan Makaleler

- I. **An expansion based on Sine-Gordon equation to Solve KdV and modified KdV equations in conformable fractional forms**
ERSOY HEPSON Ö., KORKMAZ A., HOSSEINI K., REZAZADEH H., ESLAMI M.
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- II. **An Exponential Cubic B-spline Algorithm for Solving the Nonlinear Coupled Burgers' Equation**
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- III. **EXTENDED B-SPLINE COLLOCATION METHOD FOR KDV-BURGERS EQUATION**
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- IV. **ON THE NUMERICAL SOLUTION OF THE KLEIN-GORDON EQUATION BY EXPONENTIAL CUBIC B-SPLINE COLLOCATION METHOD**
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- V. **Numerical Solutions of the Gardner Equation via Trigonometric Quintic B-spline Collocation Method**
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- VI. **Solitary wave simulations of Complex Modified Korteweg-de Vries (CMKdV) Equation using Quintic Trigonometric B-Spline**
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- VII. **Generation of the trigonometric cubic B-spline collocation solutions for the Kuramoto-Sivashinsky(KS) equation**
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AIP Conference Proceedings, cilt.1978, 2018 (Hakemli Dergi)
- VIII. **An extended cubic B-spline finite element method for solving generalized Burgers-Fisher equation**
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- X. **The Trigonometric Cubic B-spline Algorithm for Burgers' Equation**
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- XI. **The Numerical Approach to the Fisher'xxs Equation via Trigonometric Cubic B-spline Collocation Method**
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- XII. **The extended B spline collocation method for numerical solutions of Fisher equation**
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- XIII. **Numerical solution of generalized Burgers Fisher equation by exponential cubic Bsplinecollocation method**
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XV. The exponential cubic spline algorithm for equal width equation

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Advanced Studies in Contemporary Mathematics, cilt.25, sa.4, ss.525-535, 2015 (Scopus)

Kitap & Kitap Bölümleri

I. Numerical Investigations of Physical Processes for Regularized Long Wave Equation

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II. Finite element method for Schnackenberg model

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Mathematical Methods in Engineering, Applications in Dynamics of Complex Systems, Kenan Taş, Dumitru Baleanu, J. A. Tenreiro Machado, Editör, Springer, London/Berlin, Zürich, ss.41-51, 2019

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. Least Squares Method for the Numerical Solution of Advection-Diffusion Equation

DAĞ İ., ERSOY HEPSON Ö.

MAS 13th International European Conference on Mathematics, Engineering, Natural Medical Science, Afganistan, 23 - 25 Ekim 2020

II. Numerical Investigations of Physical Processes for Regularized Long Wave Equation

ERSOY HEPSON Ö., YİĞİT G.

The 4th Online International Conference on Intelligent Decision Sciences (IDS 2020), 7 - 08 Ağustos 2020

III. Hyperbolic-trigonometric Tension B-spline Galerkin Approach for the Solution of RLW Equation"

DAĞ İ., ERSOY HEPSON Ö.

Fourth International Conference of Mathematical Sciences (ICMS 2020), 17 - 21 Haziran 2020

IV. Numerical Solution of the Time Fractional Korteweg-de Vries Equation by way of Quintic

Trigonometric B-spline Integrator

ERSOY HEPSON Ö., DAĞ İ.

5th International Conference on Engineering and Natural Science, PRAG, Çek Cumhuriyeti, 12 - 16 Haziran 2019, ss.13-22

V. Exponential B-spline Solution for the Time Fractional Burgers' Equation

ERSOY HEPSON Ö., DAĞ İ.

5th International Conference on Engineering and Natural Science, PRAG, Çek Cumhuriyeti, 12 - 16 Haziran 2019, ss.123-132

VI. The Cubic Trigonometric B-spline Galerkin Method for the Fisher Equation

ERSOY HEPSON Ö., DAĞ İ.

5th International Conference on Engineering and Natural Science, PRAG, Çek Cumhuriyeti, 12 - 16 Haziran 2019, ss.81-90

VII. Finite Element Method for Schnackenberg Model

Ersoy Hepson Ö., Dağ İ.

International Symposium on Mathematical Methods in Engineering (MME), Ankara, Türkiye, 27 - 29 Nisan 2017, cilt.24, ss.41-51

VIII. Finite element method for Schnackenberg model

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The International Workshop on Mathematical Methods in Engineering (MME2017), 27 - 29 Nisan 2017, ss.41-51

- IX. **Trigonometric B-spline Collocation and Galerkin methods for Time Fractional Burgers' Equation**
ERSOY HEPSON Ö., DAĞ İ.
INTERNATIONAL CONFERENCE ON MATHEMATICS "An Istanbul Meeting for World Mathematicians" Minisymposium on Approximation Theory Minisymposium on Math Education", 3 - 06 Temmuz 2018
- X. **Study on Time Fractional Korteweg-de Vries Equation via Subdomain Galerkin Method**
ERSOY HEPSON Ö.
INTERNATIONAL CONFERENCE ON MATHEMATICS "An Istanbul Meeting for World Mathematicians" Minisymposium on Approximation Theory Minisymposium on Math Education", 3 - 06 Temmuz 2018
- XI. **A cubic subdomain Galerkin method over the geometrically graded mesh to the singularly perturbed problem**
Ersoy Hepson Ö., Dag İ.
6th International Eurasian Conference on Mathematical Sciences and Applications, IECMSA 2017, Budapest, Macaristan, 15 - 18 Ağustos 2017, cilt.1926
- XII. **An Extended Cubic B-spline Finite Element Method for Solving Generalized Burgers-Fisher Equation**
ERSOY HEPSON Ö.
International Conference of Numerical Analysis and Applied Mathematics (ICNAAM), Thessaloniki, Yunanistan, 25 - 30 Eylül 2017, cilt.1978
- XIII. **Higher Order Trigonometric B-spline Algorithms to the Solution of Coupled Burgers' Equation**
Tok Onarcan A., Ersoy Hepson Ö.
6th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA), Budapest, Macaristan, 15 - 17 Ağustos 2017, cilt.1926
- XIV. **Generation Of The Trigonometric Cubic B-spline Collocation Solutions for the Kuramoto-Sivashinsky(KS) Equation**
ERSOY HEPSON Ö.
International Conference of Numerical Analysis and Applied Mathematics (ICNAAM), Thessaloniki, Yunanistan, 25 - 30 Eylül 2017, cilt.1978
- XV. **Hyperbolic tangent solution to the conformable time fractional Zakharov-Kuznetsov Equation in 3D space**
KORKMAZ A., ERSOY HEPSON Ö.
6th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA), Budapest, Macaristan, 15 - 17 Ağustos 2017, cilt.1926
- XVI. **Traveling waves in rational Expressions of Exponential Functions to the Conformable Time Fractional Jimbo-Miwa and Zahharov-Kuznetsov Equations**
KORKMAZ A., ERSOY HEPSON Ö.
International Congress on Fundamental and Applied Sciences 2017 (ICFAS2017), 21 - 25 Ağustos 2017
- XVII. **A NUMERICAL APPROXIMATION TO THE SOLUTIONS OF THE CAHN-HILLARD EQUATION**
TOK ONARCAN A., ADAR N., ERSOY HEPSON Ö., DAĞ İ.
International Congress on Fundamental and Applied Sciences 2017 (ICFAS2017), Sarajevo, Bosna-Hersek, 21 - 25 Ağustos 2017
- XVIII. **Numerical Study Based on Trigonometric B-splines for Boussinesq System of the Bona-Smith Family**
ERSOY HEPSON Ö.
International Congress on Fundamental and Applied Sciences 2017 (ICFAS2017), 21 - 25 Ağustos 2017
- XIX. **Traveling Wave Solutions to the Conformable Fractional Modified Zakharov-Kuznetsov Equation via Simple Ansatz**
KORKMAZ A., ERSOY HEPSON Ö.
3rd International Conference on Symmetries, Differential Equations and Applications (SDEA III), 14 - 17 Ağustos 2017

- XX. **Higher order Trigonometric B-spline Approximates**
 ERSOY HEPSON Ö., KORKMAZ A.
 Mathematic Days in Sofia (MDS 2017), sofya, Bulgaristan, 10 - 14 Temmuz 2017
- XXI. **Least Squares Method for the numerical solution of Burgers'xx Equation**
 SAKA B., ERSOY HEPSON Ö.
 International Conference on Applied Analysis and Mathematical Modelling (ICAAMM2017), İstanbul, Türkiye, 3 - 07 Temmuz 2017
- XXII. **Numerical Solutions of the Gardner Equation via Quintic Trigonometric B-Spline Collocation Method**
 ERSOY HEPSON Ö.
 International Conference on Mathematics and Engineering (ICOME 2017), 10 - 12 Mayıs 2017
- XXIII. **Solitary wave simulations of Complex Modified Korteweg-de Vries(CMKdV) Equation using Quintic Trigonometric B-Spline**
 ERSOY HEPSON Ö.
 International Conference on Mathematics and Engineering (ICOME 2017), 10 - 12 Mayıs 2017
- XXIV. **A Quartic Trigonometric B-spline Collocation Method for Solving the Kuramoto-Sivashinsky Equation**
 SAKA B., ERSOY HEPSON Ö., DAĞ İ.
 The International Workshop on Mathematical Methods in Engineering (MME2017), 27 - 29 Nisan 2017
- XXV. **A Comparative Numerical Study Based on Cubic Polynomial and Trigonometric B-splines for the Gardner Equation**
 ERSOY HEPSON Ö., KORKMAZ A., DAĞ İ.
 The International Workshop on Mathematical Methods in Engineering (MME2017), 27 - 29 Nisan 2017
- XXVI. **Numerical Solutions of Singularly Perturbed Problems via both Galerkin and Subdomain Galerkin methods**
 ERSOY HEPSON Ö., DAĞ İ.
 3rd International Conference on Pure and Applied Sciences, 2 - 06 Şubat 2017
- XXVII. **Numerical Solutions of the Gardner Equation by Extended Form of the Cubic B-Splines**
 Ersoy Hepson Ö., Korkmaz A., Dağ İ.
 3rd International Conference on Pure and Applied Sciences, Dubai, Birleşik Arap Emirlikleri, 2 - 06 Şubat 2017
- XXVIII. **Exponential B-spline Collocation Solutions to the Gardner Equation**
 Ersoy Hepson Ö., Korkmaz A., Dağ İ.
 International Conference on Pure Applied Science (ICPAS 2017), Dubai, Birleşik Arap Emirlikleri, 2 - 06 Şubat 2017
- XXIX. **On the Numerical Solution of the Klein Gordon Equation by Exponential B Spline Collocation Method**
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 Second International Conference on Analysis and its Applications, Kırşehir, Türkiye, 12 - 15 Temmuz 2016
- XXX. **The Exponential Cubic B Spline Algorithms for Burgers Equation**
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- XXXI. **The Numerical Approach to the Fisher s Equation viaTrigonometric Cubic B spline Collocation Method**
 ERSOY HEPSON Ö., DAĞ İ.
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- XXXII. **A Trigonometric Cubic B spline Finite Element Method for Solving the Nonlinear Coupled Burgers Equation**
 ERSOY HEPSON Ö., DAĞ İ.
 International Conference on Advances in Applied and Computational Mechanics, İzmir, Türkiye, 5 - 07 Ağustos 2015
- XXXIII. **The Exponential Cubic B spline Collocation Method for Kuramoto Sivashinsky KS Equation**
 ERSOY HEPSON Ö., DAĞ İ.
 International Conference on Recent Advances in Pure and Applied Mathematics, ICRAPAM 2015, İstanbul, Türkiye, 3 - 06 Haziran 2015
- XXXIV. **Numerical Solutions of the Reaction Diffusion Equation System by Exponential Cubic B spline**

Collocation method

ERSOY HEPSON Ö., DAĞ İ.

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XXXVI. **The Exponential Cubic B spline Collocation Method for the Kuramoto Sivashinsky KS Equation**

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2nd International Conference on Recent Advances in Pure and Applied Mathematics, İstanbul, Türkiye, 3 - 06 Haziran 2015

XXXVII. **Numerical Solution of Generalized Burgers-Fisher Equation by Exponential Cubic B-Spline**

Collocation Method

Dag İ., ERSOY HEPSON Ö.

International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, Yunanistan, 22 - 28 Eylül 2014, cilt.1648

XXXVIII. **The Extended B-Spline Collocation Method for Numerical Solutions of Fisher Equation**

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XXXIX. **The Exponential Cubic B-Spline Algorithm for Fisher Equation**

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XL. **The Exponential Cubic B-Spline Algorithm for Korteweg-de Vries (KDV) Equation**

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XLI. **The Exponential Cubic B-Spline Algorithm for Equal Width Equation**

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Karatekin Mathematics Days (KMD 2014), Türkiye, 11 - 13 Haziran 2014

Desteklenen Projeler

ERSOY HEPSON Ö., Yükseköğretim Kurumları Destekli Proje, Zaman Kesirli Kısmi Diferansiyel Denklemlerin B-spline Sonlu Eleman Yöntemleri ile Çözümleri, 2018 - 2019

DAĞ İ., ERSOY HEPSON Ö., Yükseköğretim Kurumları Destekli Proje, Gardner denkleminin bazı kübik ve kuartik B spline fonksiyon tabanlı Kolokasyon yöntemi ile sayısal çözümlerinin bulunması ve karşılaştırılması, 2016 - 2017

Bilimsel Hakemlikler

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PHYSICA SCRIPTA, SCI-E Kapsamındaki Dergi, Mayıs 2021

CHAOS SOLITONS & FRACTALS, SCI Kapsamındaki Dergi, Mart 2021

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