

Doç. Dr. ÖZLEM ERSOY HEPSON

Kişisel Bilgiler

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Uluslararası Araştırmacı ID'leri

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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

Doç. Dr., Eskişehir Osmangazi Üniversitesi, Fen Fakültesi, Matematik Ve Bilgisayar Bilimleri Bölümü, 2023 - Devam Ediyor

Doç. Dr., Eskişehir Osmangazi Üniversitesi, Fen Fakültesi, Matematik Ve Bilgisayar Bilimleri Bölümü, 2021 - 2023

Araştırma Görevlisi Dr., Eskişehir Osmangazi Üniversitesi, Fen Fakültesi, Matematik Ve Bilgisayar Bilimleri Bölümü, 2009
- 2021

Verdiği Dersler

Analiz, Lisans, 2021 - 2022

Nümerik Analiz, Lisans, 2021 - 2022

Genel Matematik I, Lisans, 2021 - 2022

Genel Matematik I, Lisans, 2021 - 2022

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**
SAKA B., ERSOY HEPSON Ö., DAĞ İ.
Proceedings of the National Academy of Sciences India Section A - Physical Sciences, cilt.94, sa.1, ss.83-98, 2024 (SCI-Expanded)
- III. **Integration of the RLW equation using higher-order predictor–corrector scheme and quintic B-spline collocation method**
SAKA B., DAĞ İ., ERSOY HEPSON Ö.
Mathematical Sciences, cilt.17, sa.4, ss.491-502, 2023 (SCI-Expanded)
- IV. **A numerical scheme for the wave simulations of the Kuramoto–Sivashinsky model via quartic-trigonometric tension B-spline**
ERSOY HEPSON Ö., Yigit G.
Wave Motion, cilt.114, 2022 (SCI-Expanded)
- V. **A quartic trigonometric tension B-spline finite element method for solving Gardner equation**
ERSOY HEPSON Ö.
NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, cilt.38, sa.4, ss.1055-1067, 2022 (SCI-Expanded)
- VI. **A higher-order efficient approach to numerical simulations of the RLW equation**
DAĞ İ., ERSOY HEPSON Ö., SAKA B.
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**
Hepson Ö., Dağ İ., Saka B., Ay B.
International Journal of Computer Mathematics, cilt.99, sa.5, ss.993-1004, 2022 (SCI-Expanded)
- VIII. **Solitary waves of the RLW equation via least squares method**
Ersoy Hepson Ö., Dağ İ., Saka B., Ay B.
International Journal Of Nonlinear Sciences And Numerical Simulation, cilt.0, 2021 (SCI-Expanded)
- IX. **Quartic-trigonometric tension B-spline Galerkin method for the solution of the advection-diffusion equation**
Ersoy Hepson Ö., Yigit G.
Computational and Applied Mathematics, cilt.40, sa.4, 2021 (SCI-Expanded)
- X. **Numerical simulations of reaction–diffusion systems in biological and chemical mechanisms with quartic-trigonometric B-splines**
Ersoy Hepson Ö., Yiğit G., Allahviranloo T.

Computational and Applied Mathematics, cilt.40, sa.4, 2021 (SCI-Expanded)

- 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**
ERSOY HEPSON Ö., DAĞ İ.
International Journal of Nonlinear Sciences and Numerical Simulation, cilt.22, ss.119-133, 2021 (SCI-Expanded)
- XIII. **Hyperbolic-trigonometric tension B-spline Galerkin approach for the solution of Fisher equation**
Dağ İ., Ersoy Hepson Ö.
FOURTH INTERNATIONAL CONFERENCE OF MATHEMATICAL SCIENCES (ICMS 2020), cilt.2334, ss.1-6, 2021 (SCI-Expanded)
- XIV. **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), cilt.2334, 2021 (SCI-Expanded)
- XV. **Exponential B-spline collocation solutions to the Gardner equation**
ERSOY HEPSON Ö., KORKMAZ A., Dag İ.
INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, cilt.97, sa.4, ss.837-850, 2020 (SCI-Expanded)
- XVI. **A quartic trigonometric tension b-spline algorithm for nonlinear partial differential equation system**
Ersoy Hepson Ö.
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**
Korkmaz A., Ersoy Hepson Ö., Hosseini K., Rezazadeh H., Eslami M.
JOURNAL OF KING SAUD UNIVERSITY SCIENCE, cilt.32, ss.567-574, 2020 (SCI-Expanded)
- XVIII. **Exponential Twice Continuously Differentiable B-Spline Algorithm for Burgers' Equation**
ERSOY HEPSON Ö., Dag İ., ADAR N.
UKRAINIAN MATHEMATICAL JOURNAL, cilt.70, sa.6, ss.906-921, 2018 (SCI-Expanded)
- XIX. **Numerical solutions of the Gardner equation by extended form of the cubic B-splines**
ERSOY HEPSON Ö., KORKMAZ A., Dag İ.
PRAMANA-JOURNAL OF PHYSICS, cilt.91, sa.4, 2018 (SCI-Expanded)
- XX. **Traveling waves in rational expressions of exponential functions to the conformable time fractional Jimbo-Miwa and Zakharov-Kuznetsov equations**
KORKMAZ A., ERSOY HEPSON Ö.
OPTICAL AND QUANTUM ELECTRONICS, cilt.50, sa.1, 2018 (SCI-Expanded)
- XXI. **Motion of Patterns Modeled by the Gray-Scott Autocatalysis System in One Dimension**
KORKMAZ A., ERSOY HEPSON Ö., DAĞ İ.
MATCH-COMMUNICATIONS IN MATHEMATICAL AND IN COMPUTER CHEMISTRY, cilt.77, sa.2, ss.507-526, 2017 (SCI-Expanded)
- XXII. **Exponential B-Splines for Numerical Solutions to Some Boussinesq Systems for Water Waves**
ERSOY HEPSON Ö., KORKMAZ A., DAĞ İ.
MEDITERRANEAN JOURNAL OF MATHEMATICS, cilt.13, sa.6, ss.4975-4994, 2016 (SCI-Expanded)
- XXIII. **The exponential cubic B-spline algorithm for Fisher equation**
DAĞ İ., ERSOY HEPSON Ö.
CHAOS SOLITONS & FRACTALS, cilt.86, ss.101-106, 2016 (SCI-Expanded)
- XXIV. **The Exponential Cubic B-Spline Collocation Method for the Kuramoto-Sivashinsky Equation**
ERSOY HEPSON Ö., DAĞ İ.
FILOMAT, cilt.30, sa.3, ss.853-861, 2016 (SCI-Expanded)
- XXV. **Numerical solutions of the reaction diffusion system by using exponential cubic B-spline collocation algorithms**

ERSOY HEPSON Ö., Dağ İ.
OPEN PHYSICS, cilt.13, sa.1, ss.414-427, 2015 (SCI-Expanded)

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.
Boletim da Sociedade Paranaense de Matemática, cilt.40, 2022 (ESCI)
- II. **An Exponential Cubic B-spline Algorithm for Solving the Nonlinear Coupled Burgers' Equation**
Ersoy Hepson Ö., Dağ İ.
Computational Methods for Differential Equations, cilt.9, sa.4, ss.1109-1127, 2021 (ESCI)
- III. **EXTENDED B-SPLINE COLLOCATION METHOD FOR KDV-BURGERS EQUATION**
Hepson Ö., Korkmaz A., Dağ İ.
TWMS JOURNAL OF APPLIED AND ENGINEERING MATHEMATICS, cilt.9, sa.2, ss.267-278, 2019 (ESCI)
- IV. **ON THE NUMERICAL SOLUTION OF THE KLEIN-GORDON EQUATION BY EXPONENTIAL CUBIC B-SPLINE COLLOCATION METHOD**
Ersoy Hepson Ö., Korkmaz A., Dağ İ.
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, cilt.68, sa.1, ss.412-421, 2019 (ESCI)
- V. **Numerical Solutions of the Gardner Equation via Trigonometric Quintic B-spline Collocation Method**
ERSOY HEPSON Ö.
Sakarya University Journal of Science, cilt.22, ss.1, 2018 (Hakemli Dergi)
- VI. **Solitary wave simulations of Complex Modified Korteweg-de Vries (CMKdV) Equation using Quintic Trigonometric B-Spline**
Ersoy Hepson Ö.
Anadolu Üniversitesi Bilim Ve Teknoloji Dergisi - B Teorik Bilimler, cilt.6, sa.2, ss.193-205, 2018 (Hakemli Dergi)
- VII. **Generation of the trigonometric cubic B-spline collocation solutions for the Kuramoto-Sivashinsky(KS) equation**
ERSOY HEPSON Ö.
AIP Conference Proceedings, cilt.1978, 2018 (Hakemli Dergi)
- VIII. **An extended cubic B-spline finite element method for solving generalized Burgers-Fisher equation**
ERSOY HEPSON Ö.
AIP Conference Proceedings, cilt.1978, 2018 (Hakemli Dergi)
- IX. **Numerical Solution of Singularly Perturbed Problems via both Galerkin and Subdomain Galerkin methods**
ERSOY HEPSON Ö., DAĞ İ.
Applied Mathematics & Information Sciences, cilt.12, sa.3, ss.495-500, 2018 (Scopus)
- X. **The Trigonometric Cubic B-spline Algorithm for Burgers' Equation**
DAĞ İ., ERSOY HEPSON Ö., KAÇMAZ Ö.
International Journal of Nonlinear Science, cilt.24, sa.2, ss.120-128, 2017 (Hakemli Dergi)
- XI. **The Numerical Approach to the Fisher'xxs Equation via Trigonometric Cubic B-spline Collocation Method**
ERSOY HEPSON Ö., DAĞ İ.
Communications in Numerical Analysis, cilt.2017, sa.2, ss.91-100, 2017 (Hakemli Dergi)
- XII. **The extended B spline collocation method for numerical solutions of Fisher equation**
ERSOY HEPSON Ö., DAĞ İ.
AIP Conference Proceedings, cilt.1648, sa.370011, 2015 (Hakemli Dergi)
- XIII. **Numerical solution of generalized Burgers Fisher equation by exponential cubic Bsplinecollocation method**

DAĞ İ., ERSOY HEPSON Ö.

AIP Conference Proceedings, cilt.1648, sa.370008, 2015 (Hakemli Dergi)

XIV. The Exponential Cubic B Spline Algorithm for Korteweg de Vries Equation

Ersoy Hepson Ö., Dağ İ.

Advances in Numerical Analysis, cilt.2015, sa.42015, ss.1-8, 2015 (Hakemli Dergi)

XV. The exponential cubic spline algorithm for equal width equation

DAĞ İ., ERSOY HEPSON Ö.

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

Ersoy Hepson Ö., Yiğit G.

Advances in Intelligent Systems and Computing, Tofigh Allahviranloo, Soheil Salahsour, Nafiz Arıca, Editör, Springer, London/Berlin, Zürich, ss.710-724, 2021

II. Finite element method for Schnackenberg model

Ersoy Hepson Ö., Dağ İ.

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**
 ERSOY HEPSON Ö., DAĞ İ.
 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**
Ersoy Hepson Ö., Korkmaz A., Dağ İ.
Second International Conference on Analysis and its Applications, Kırşehir, Türkiye, 12 - 15 Temmuz 2016
- XXX. **The Exponential Cubic B Spline Algorithms for Burgers Equation**
ERSOY HEPSON Ö., DAĞ İ., ADAR N.
International Conference on Quantum Science and Applications (ICQSA 2016), 25 - 27 Mayıs 2016
- XXXI. **The Numerical Approach to the Fisher s Equation via Trigonometric Cubic B spline Collocation Method**
ERSOY HEPSON Ö., DAĞ İ.
International Conference on Natural Science and Engineering, 19 - 20 Mart 2016
- 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.
International Conference on Applied Analysis and Mathematical Modelling, ICAAMM 2015, İstanbul, Türkiye, 8 - 12 Haziran 2015
- XXXV. **Numerical Solutions of the Reaction Diffusion Equation System via Exponential Cubic B spline Collocation method**
ERSOY HEPSON Ö., DAĞ İ.
International Conference on Applied Analysis and Mathematical Modelling, İstanbul, Türkiye, 8 - 12 Haziran 2015
- XXXVI. **The Exponential Cubic B spline Collocation Method for the Kuramoto Sivashinsky KS Equation**
ERSOY HEPSON Ö., DAĞ İ.
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**
Ersoy Hepson Ö., Dag İ.
International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, Yunanistan, 22 - 28 Eylül 2014, cilt.1648
- XXXIX. **The Exponential Cubic B-Spline Algorithm for Fisher Equation**
DAĞ İ., ERSOY HEPSON Ö.
3rd International Eurasian Conference On Mathematical Sciences and Applications (IECMSA 2014), Avusturya, 25 - 28 Ağustos 2014
- XL. **The Exponential Cubic B-Spline Algorithm for Korteweg-de Vries (KDV) Equation**
ERSOY HEPSON Ö., DAĞ İ.
3rd International Eurasian Conference On Mathematical Sciences and Applications (IECMSA 2014), Avusturya, 25 - 28 Ağustos 2014
- XLI. **The Exponential Cubic B-Spline Algorithm for Equal Width Equation**
DAĞ İ., ERSOY HEPSON Ö.
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

MATHEMATICAL SCIENCES, SCI-E Kapsamındaki Dergi, Ağustos 2021

PHYSICA SCRIPTA, SCI-E Kapsamındaki Dergi, Mayıs 2021

CHAOS SOLITONS & FRACTALS, SCI Kapsamındaki Dergi, Mart 2021

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Metrikler

Yayın: 83

Atıf (WoS): 333

Atıf (Scopus): 410

H-İndeks (WoS): 10

H-İndeks (Scopus): 10

Ödüller

Ersoy Hepson Ö., Certificate of Research Excellence, Vice President Of African Academy Of Sciences, Şubat 2018