Assoc. Prof. ÖZLEM ERSOY HEPSON

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

ScopusID: 57150467300 Yoksis Researcher ID: 171364

Education

Doctorate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Matematik-Bilgisayar Bilimleri (Dr), Turkey 2012 - 2015

Postgraduate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Matematik-Bilgisayar Bilimleri (Yl) (Tezli), Turkey 2009 - 2012

Undergraduate, Eskisehir Osmangazi University, Fen-Edebiyat Fakültesi, Matematik Bölümü, Turkey 2006 - 2009

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Bazı kısmi diferensiyel denklem sistemlerinin üstel kübik B-spline kolokeyşin çözümlerinin üretilmesi, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Matematik-Bilgisayar Bilimleri (Dr), 2015 Postgraduate, Singularly perturbed diferensiyel denkleminin geometrik olarak değişen sonlu elemanlarda B-spline fonksiyonları yardımıyla çözümü, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Matematik-Bilgisayar Bilimleri (Yl) (Tezli), 2012

Research Areas

Mathematics

Academic Positions

Associate Professor, Eskisehir Osmangazi University, Fen Fakültesi, Matematik Ve Bilgisayar Bilimleri Bölümü, 2023 - Continues

Associate Professor, Eskisehir Osmangazi University, Fen Fakültesi, Matematik Ve Bilgisayar Bilimleri Bölümü, 2021 - 2023

Research Assistant PhD, Eskisehir Osmangazi University, Fen Fakültesi, Matematik Ve Bilgisayar Bilimleri Bölümü, 2009 - 2021

Courses

Undergraduate

Analiz, Undergraduate, 2021 - 2022

Nümerik Analiz, Undergraduate, 2021 - 2022

Genel Matematik I, Undergraduate, 2021 - 2022

Genel Matematik I, Undergraduate, 2021 - 2022

Diferensiyel Denklemler, Undergraduate, 2016 - 2017

Fark Denklemleri II, Undergraduate, 2016 - 2017

Nümerik Analiz II, Undergraduate, 2016 - 2017

Fark Denklemleri II, Undergraduate, 2016 - 2017

Matematik I, Undergraduate, 2016 - 2017

Journal articles indexed in SCI, SSCI, and AHCI

I. A computational method for nonlinear Burgers' equation using quartic-trigonometric tension B-splines

Yigit G., ERSOY HEPSON Ö., Allahviranloo T.

Mathematical Sciences, vol.18, no.1, pp.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, vol.94, no.1, pp.83-98, 2024 (SCI-Expanded)

III. Modeling of solitary waves via higher-order predictor-corrector scheme

SAKA B., ERSOY HEPSON Ö., DAĞ İ.

Journal of Taibah University for Science, vol.18, no.1, 2024 (SCI-Expanded)

IV. 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, vol.17, no.4, pp.491-502, 2023 (SCI-Expanded)

V. A numerical scheme for the wave simulations of the Kuramoto-Sivashinsky model via quartictrigonometric tension B-spline

ERSOY HEPSON Ö., Yigit G.

Wave Motion, vol.114, 2022 (SCI-Expanded)

VI. A quartic trigonometric tension B-spline finite element method for solving Gardner equation ERSOY HEPSON Ö.

NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, vol.38, no.4, pp.1055-1067, 2022 (SCI-Expanded)

VII. A higher-order efficient approach to numerical simulations of the RLW equation

DAĞ İ., ERSOY HEPSON Ö., SAKA B.

Pramana - Journal of Physics, vol.96, no.1, 2022 (SCI-Expanded)

VIII. 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, vol.99, no.5, pp.993-1004, 2022 (SCI-Expanded)

IX. 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, vol.0, 2021 (SCI-Expanded)

X. Quartic-trigonometric tension B-spline Galerkin method for the solution of the advection-diffusion equation

Ersoy Hepson Ö., Yigit G.

Computational and Applied Mathematics, vol.40, no.4, 2021 (SCI-Expanded)

XI. 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, vol.40, no.4, 2021 (SCI-Expanded)

XII. Numerical simulations of Kuramoto-Sivashinsky equation in reaction-diffusion via Galerkin method Ersoy Hepson Ö.

MATHEMATICAL SCIENCES, vol.15, no.2, pp.199-206, 2021 (SCI-Expanded)

XIII. 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, vol.22, pp.119-133, 2021 (SCI-Expanded)

XIV. 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), vol.2334, pp.1-6, 2021 (SCIENCE)

XV. 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), vol.2334, 2021 (SCI-Expanded)

XVI. Exponential B-spline collocation solutions to the Gardner equation

ERSOY HEPSON Ö., KORKMAZ A., Dag İ.

INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, vol.97, no.4, pp.837-850, 2020 (SCI-Expanded)

XVII. A quartic trigonometric tension b-spline algorithm for nonlinear partial differential equation system Ersoy Hepson Ö.

Engineering Computations (Swansea, Wales), vol.38, no.5, pp.2293-2311, 2020 (SCI-Expanded)

XVIII. Sine-Gordon expansion method for exact solutions to conformable time fractional equations in RLW-

Korkmaz A., Ersoy Hepson Ö., Hosseini K., Rezazadeh H., Eslami M.

JOURNAL OF KING SAUD UNIVERSITY SCIENCE, vol.32, pp.567-574, 2020 (SCI-Expanded)

XIX. Exponential Twice Continuously Differentiable B-Spline Algorithm for Burgers' Equation ERSOY HEPSON Ö., Dag İ., ADAR N.

UKRAINIAN MATHEMATICAL JOURNAL, vol.70, no.6, pp.906-921, 2018 (SCI-Expanded)

XX. 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, vol.91, no.4, 2018 (SCI-Expanded)

XXI. 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, vol.50, no.1, 2018 (SCI-Expanded)

XXII. 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, vol.77, no.2, pp.507-526, 2017 (SCI-Expanded)

XXIII. Exponential B-Splines for Numerical Solutions to Some Boussinesq Systems for Water Waves ERSOY HEPSON Ö., KORKMAZ A., DAĞ İ.

MEDITERRANEAN JOURNAL OF MATHEMATICS, vol.13, no.6, pp.4975-4994, 2016 (SCI-Expanded)

XXIV. The exponential cubic B-spline algorithm for Fisher equation

DAĞ İ., ERSOY HEPSON Ö.

CHAOS SOLITONS & FRACTALS, vol.86, pp.101-106, 2016 (SCI-Expanded)

XXV. The Exponential Cubic B-Spline Collocation Method for the Kuramoto-Sivashinsky Equation ERSOY HEPSON Ö., DAĞ İ.

FILOMAT, vol.30, no.3, pp.853-861, 2016 (SCI-Expanded)

XXVI. Numerical solutions of the reaction diffusion system by using exponential cubic B-spline collocation algorithms

ERSOY HEPSON Ö., Dag İ.

OPEN PHYSICS, vol.13, no.1, pp.414-427, 2015 (SCI-Expanded)

Articles Published in Other Journals

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, vol.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, vol.9, no.4, pp.1109-1127, 2021 (ESCI)

III. EXTENDED B-SPLINE COLLOCATION METHOD FOR KDV-BURGERS EQUATION

Hepson Ö., Korkmaz A., Dag İ.

TWMS JOURNAL OF APPLIED AND ENGINEERING MATHEMATICS, vol.9, no.2, pp.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, vol.68, no.1, pp.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, vol.22, pp.1, 2018 (Peer-Reviewed Journal)

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, vol.6, no.2, pp.193-205, 2018 (Peer-Reviewed Journal)

VII. Generation of the trigonometric cubic B-spline collocation solutions for the Kuramoto-Sivashinsky(KS) equation

ERSOY HEPSON Ö.

AIP Conference Proceedings, vol.1978, 2018 (Peer-Reviewed Journal)

VIII. An extended cubic B-spline finite element method for solving generalized Burgers-Fisher equation ERSOY HEPSON Ö.

AIP Conference Proceedings, vol.1978, 2018 (Peer-Reviewed Journal)

IX. Numerical Solution of Singularly Perturbed Problems via both Galerkin and Subdomain Galerkin methods

ERSOY HEPSON Ö., DAĞ İ.

Applied Mathematics & Information Sciences, vol.12, no.3, pp.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, vol.24, no.2, pp.120-128, 2017 (Peer-Reviewed Journal)

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, vol.2017, no.2, pp.91-100, 2017 (Peer-Reviewed Journal)

XII. The extended B spline collocation method for numerical solutions of Fisher equation ERSOY HEPSON Ö., DAĞ İ.

AIP Conference Proceedings, vol.1648, no.370011, 2015 (Peer-Reviewed Journal)

XIII. Numerical solution of generalized Burgers Fisher equation by exponential cubic Bsplinecollocation method

DAĞ İ., ERSOY HEPSON Ö.

AIP Conference Proceedings, vol.1648, no.370008, 2015 (Peer-Reviewed Journal)

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

Ersoy Hepson Ö., Dağ İ.

Advances in Numerical Analysis, vol.2015, no.42015, pp.1-8, 2015 (Peer-Reviewed Journal)

XV. The exponential cubic spline algorithm for equal width equation

DAĞ İ., ERSOY HEPSON Ö.

Advanced Studies in Contemporary Mathematics, vol.25, no.4, pp.525-535, 2015 (Scopus)

Books

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

Ersoy Hepson Ö., Yiğit G.

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

II. Finite element method for Schnackenberg model

Ersoy Hepson Ö., Dağ İ.

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

Papers Presented at Peer-Reviewed Scientific Conferences

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, Afghanistan, 23 - 25 October 2020, (Full Text)

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 August 2020, (Full Text)

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 June 2020, (Full Text)

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, Praha, Czech Republic, 12 - 16 June 2019, pp.13-21, (Full Text)

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

Ersoy Hepson Ö., Dağ İ.

5th International Conference on Engineering and Natural Science, Praha, Czech Republic, 12 - 16 June 2019, pp.123-131, (Full Text)

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, Czech Republic, 12 - 16 June 2019, pp.81-90, (Full Text)

VII. Finite Element Method for Schnakenberg Model

Ersoy Hepson Ö., Dag İ.

International Symposium on Mathematical Methods in Engineering (MME), Ankara, Turkey, 27 - 29 April 2017, vol.24, pp.41-51, (Full Text)

VIII. Finite element method for Schnackenberg model

ERSOY HEPSON Ö., DAĞ İ.

The International Workshop on Mathematical Methods in Engineering (MME2017), 27 - 29 April 2017, pp.41-51, (Full Text)

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 July 2018, (Summary Text)

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 July 2018, (Summary Text)

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, Hungary, 15 - 18 August 2017, vol.1926, (Full Text)

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, Greece, 25 - 30 September 2017, vol.1978, (Full Text)

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, Hungary, 15 - 17 August 2017, vol.1926, (Full Text)

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, Greece, 25 - 30 September 2017, vol.1978, (Full Text)

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, Hungary, 15 - 17 August 2017, vol.1926, (Full Text)

XVI. Traveling waves in rational Expressions of Exponential Functions to theConformable Time Fractional Jimbo-Miwa and Zahharov-Kuznetsov Equations

KORKMAZ A., ERSOY HEPSON Ö.

International Congress on Fundamental and Applied Sciences 2017 (ICFAS2017), 21 - 25 August 2017, (Summary Text)

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, Bosnia And Herzegovina, 21 - 25 August 2017, (Summary Text)

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 August 2017, (Summary Text)

XIX. Traveling Wave Solutions to the Conformable Fractional Modified Zakharov-Kuznetsov Equation via Simple Ansat

KORKMAZ A., ERSOY HEPSON Ö.

3rd International Conference on Symmetries, Differential Equations and Applications (SDEA III), 14 - 17 August 2017, (Summary Text)

XX. Higher order Trigonometric B-spline Approximates

ERSOY HEPSON Ö., KORKMAZ A.

Mathematic Days in Sofia (MDS 2017), sofya, Bulgaria, 10 - 14 July 2017, (Summary Text)

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, Turkey, 3 - 07 July 2017, (Summary Text)

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 May 2017, (Summary Text)

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 May 2017, (Summary Text)

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 April 2017, (Summary Text)

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 April 2017, (Summary Text)

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 February 2017, (Summary Text)

 $XXVII. \quad \textbf{Numerical Solutions of the Gardner Equation by Extended Form of the Cubic B-Splines}$

Ersoy Hepson Ö., Korkmaz A., Dağ İ.

3rd International Conference on Pure and Applied Sciences, Dubai, United Arab Emirates, 2 - 06 February 2017, (Summary Text)

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, United Arab Emirates, 2 - 06 February 2017, (Summary Text)

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, Turkey, 12 - 15 July 2016, (Summary Text)

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 May 2016, (Summary Text)

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 March 2016, (Summary Text)

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, Turkey, 5 - 07 August 2015, (Summary Text)

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, Turkey, 3 - 06 June 2015, (Summary Text)

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, Turkey, 8 - 12 June 2015, (Summary Text)

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, Turkey, 8 - 12 June 2015, (Summary Text)

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, Turkey, 3 - 06 June 2015, (Summary Text)

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, Greece, 22 - 28 September 2014, vol.1648, (Full Text)

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

Ersov Hepson Ö., Dag İ.

International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, Greece, 22 - 28 September 2014, vol.1648, (Full Text)

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

DAĞ İ., ERSOY HEPSON Ö.

3rd International Eurasion Conference On Mathematical Sciences and Applications (IECMSA 2014), Austria, 25 - 28 August 2014, (Summary Text)

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

ERSOY HEPSON Ö., DAĞ İ.

3rd International Eurasion Conference On Mathematical Sciences and Applications (IECMSA 2014), Austria, 25 - 28 August 2014, (Summary Text)

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

DAĞ İ., ERSOY HEPSON Ö.

Karatekin Mathematics Days (KMD 2014), Turkey, 11 - 13 June 2014, (Full Text)

Funded Projects

ERSOY HEPSON Ö., Project Supported by Higher Education Institutions, Zaman Kesirli Kısmi Diferansiyel Denklemlerin B-spline Sonlu Eleman Yöntemleri ile Çözümleri, 2018 - 2019

DAĞ İ., ERSOY HEPSON Ö., Project Supported by Higher Education Institutions, Gardner denkleminin bazı kübik ve kuartik B spline fonksiyon tabanlı Kolokasyon yöntemi ile sayısal çözümlerinin bulunması ve karşılaştırılması, 2016 - 2017

Peer Reviews in Scientific Publications

MATHEMATICAL SCIENCES, Journal Indexed in SCI-E, August 2021

PHYSICA SCRIPTA, Journal Indexed in SCI-E, May 2021

CHAOS SOLITONS & FRACTALS, SCI Journal, March 2021

MATHEMATICAL SCIENCES, Journal Indexed in SCI-E, February 2021

ADVANCES IN DIFFERENCE EQUATIONS, Journal Indexed in SCI-E, February 2021

Results In Mathematics, Journal Indexed in SCI-E, February 2021

MATHEMATICAL SCIENCES, Journal Indexed in SCI-E, January 2021

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MATHEMATICAL SCIENCES, Journal Indexed in SCI-E, January 2021

PHYSICA SCRIPTA, Journal Indexed in SCI-E, December 2020

INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, Journal Indexed in SCI-E, December 2020

CHAOS SOLITONS & FRACTALS, SCI Journal, December 2020

MATHEMATICS AND COMPUTERS IN SIMULATION, Journal Indexed in SCI-E, November 2020

RESULTS IN MATHEMATICS, Journal Indexed in SCI-E, November 2020

INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN BIOMEDICAL ENGINEERING, Journal Indexed in SCI-E,

November 2020

NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, Journal Indexed in SCI-E, November 2020

CHAOS SOLITONS & FRACTALS, SCI Journal, November 2020

PHYSICA SCRIPTA, Journal Indexed in SCI-E, September 2020

ADVANCES IN DIFFERENCE EQUATIONS, Journal Indexed in SSCI, August 2020

INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, Journal Indexed in SCI-E, May 2020

ADVANCES IN DIFFERENTIAL EQUATIONS, Journal Indexed in SCI-E, February 2020

MATHEMATICAL METHODS IN THE APPLIED SCIENCES, Journal Indexed in SCI-E, February 2020

NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, SCI Journal, November 2019

MATHEMATICS AND COMPUTERS IN SIMULATION, Journal Indexed in SCI-E, October 2019

TWMS Journal of Applied and Engineering Mathematics, Journal Indexed in ESCI, March 2018

MULTIDISCIPLINE MODELING IN MATERIALS AND STRUCTURES, Journal Indexed in ESCI, February 2018

NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, Journal Indexed in SCI-E, June 2017

INTERNATIONAL JOURNAL OF NONLINEAR SCIENCES AND NUMERICAL SIMULATION, Journal Indexed in SCI-E, May

2017

EUROPEAN PHYSICAL JOURNAL PLUS, SCI Journal, May 2017

CHAOS SOLITONS & FRACTALS, SCI Journal, March 2017

Metrics

Publication: 84 Citation (WoS): 333 Citation (Scopus): 415 H-Index (WoS): 10

Awards

 $Ersoy\ Hepson\ \ddot{O}\text{., Certificate of Research Excellence, Vice\ President\ Of\ African\ Academy\ Of\ Sciences,\ February\ 2018}$