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Education Information

Doctorate, University of Wales-Bangor University, United Kingdom 1990 - 1994

Postgraduate, Erciyes University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), Turkey 1985 - 1987

Undergraduate, Ankara University, Fen Fakültesi, Matematik Bölümü, Turkey 1981 - 1985

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Studies of B-spline functions, University of Wales-Bangor University, 1994

Postgraduate, Diferensiyel denklemlerin sayısal çözümünde spline fonksiyon uygulamaları, Erciyes University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), 1987

Research Areas

Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Professor, Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Bilgisayar Mühendisliği, 2016 - Continues

Academic and Administrative Experience

Eskisehir Osmangazi University, Mühendislik-Mimarlık Fakültesi, Bilgisayar Mühendisliği Bölümü, 2016 - Continues

Eskisehir Osmangazi University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2014 - 2016

Eskisehir Osmangazi University, Fen-Edebiyat Fakültesi, 2006 - 2010

Eskisehir Osmangazi University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 1998 - 2006

Courses

Linear Algebra, Undergraduate, 2020 - 2021

Algoritma Analizi ve Tasarımı, Postgraduate, 2020 - 2021

Advising Theses

- DAĞ İ., Meta-sezgisel yöntemler ile müzik verisi üzerinde özellik seçimi ve kategorizasyon, Postgraduate, A.HÜSEYİN(Student), 2020
- DAĞ İ., Reaksiyon-Difüzyon Denklem Sistemlerinin Çözümleri için Trigonometrik B-Spline Kolokasyon Algoritmaları, Doctorate, A.TOK(Student), 2019
- DAĞ İ., BAZI DİFERENSİYEL DENKLEMLERİN EN KÜÇÜK KARELER DİFERENSİYEL QUADRATURE YÖNTEMİ İLE ÇÖZÜMLERİ, Doctorate, B.AY(Student), 2018
- DAĞ İ., Zamana bağlı kısmi diferensiyel denklemlerin üstel B-spline Galerkin sonlu elemanlar yöntemiyle sayısal çözümleri, Doctorate, M.ZORŞAHİN(Student), 2016
- DAĞ İ., Trigonometrik B-spline subdomain Galerkin yöntemi ile zamana bağlı bir boyutlu lineer olmayan kısmi türevli diferensiyel denklemlerin yaklaşık çözümleri, Postgraduate, B.AY(Student), 2015
- DAĞ İ., Bazı kısmi diferensiyel denklem sistemlerinin üstel kübik B-spline kolokeyşin çözümlerinin üretilmesi, Doctorate, Ö.ERSOY(Student), 2015
- DAĞ İ., Lineer olmayan kısmi türevli diferensiyel denklemlerin Taylor-kollokasyon ve Taylor-galerkin yöntemleri ile sayısal çözümleri, Doctorate, A.CANIVAR(Student), 2011
- DAĞ İ., Bazı tek boyutlu kısmi türevli diferensiyel denklemlerin b-spline diferensiyel quadrature metotları ile sayısal çözümleri, Doctorate, A.KORKMAZ(Student), 2010
- DAĞ İ., Reaksiyon-difüzyon denklem sistemlerinin B-spline sonlu elemanlar yöntemi ile nümerik çözümleri, Doctorate, A.ŞAHİN(Student), 2009
- DAĞ İ., Klein-gordon denkleminin b-spline kolokeyşin metodları ile çözümü, Doctorate, A.BOZ(Student), 2006
- DAĞ İ., Bazı tek boyutlu lineer olmayan kısmi türevli diferensiyel denklemlerin diferensiyel kuadratur metodu ile sayısal çözümleri, Postgraduate, A.KORKMAZ(Student), 2006
- DAĞ İ., Burger denkleminin B-spline fonksiyonlar yardımıyla nümerik çözümleri, Postgraduate, A.ŞAHİN(Student), 2004
- DAĞ İ., Kübik spline fonksiyonlar yardımıyla lineer olmayan kısmi türevli diferensiyel denklemlerin sayısal çözümleri, Postgraduate, A.CANIVAR(Student), 2003
- DAĞ İ., Kübik spline fonksiyonlar yardımıyla bazı kısmi türevli diferensiyel denklemlerin sayısal çözümleri, Postgraduate, D.IRK(Student), 2002
- DAĞ İ., Schrödinger denkleminin B-spline sonlu elemanlar metoduyla çözümleri, Postgraduate, T.ALPU(Student), 1999

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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)
- II. **Classification of anemia using Harris hawks optimization method and multivariate adaptive regression spline**
Yagmur N., DAĞ İ., Temurtas H.
Neural Computing and Applications, 2024 (SCI-Expanded)
- III. **A new computer-aided diagnostic method for classifying anaemia disease: Hybrid use of Tree Bagger and metaheuristics**
Yagmur N., DAĞ İ., TEMURTAŞ H.
EXPERT SYSTEMS, 2023 (SCI-Expanded)
- IV. **I-CPA: An Improved Carnivorous Plant Algorithm for Solar Photovoltaic Parameter Identification Problem**

Beskirli A., DAĞ İ.

BIOMIMETICS, vol.8, no.8, 2023 (SCI-Expanded)

- V. **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)
- VI. **Parameter extraction for photovoltaic models with tree seed algorithm**
Beşkirli A., DAĞ İ.
Energy Reports, vol.9, pp.174-185, 2023 (SCI-Expanded)
- VII. **Pattern formation of Schnakenberg model using trigonometric quadratic B-spline functions**
TOK ONARCAN A., ADAR N., DAĞ İ.
Pramana - Journal of Physics, vol.96, no.3, 2022 (SCI-Expanded)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **An efficient tree seed inspired algorithm for parameter estimation of Photovoltaic models**
Beşkirli A., DAĞ İ.
Energy Reports, vol.8, pp.291-298, 2021 (SCI-Expanded)
- XII. **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 (SCI-Expanded)
- XIII. **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)
- XIV. **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)
- XV. **Wave simulations of Gray-Scott reaction-diffusion system**
TOK ONARCAN A., ADAR N., DAĞ İ.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.42, no.16, pp.5566-5581, 2019 (SCI-Expanded)
- XVI. **Exponential B-splines Galerkin Method for the Numerical Solution of the Fisher's Equation**
ZORŞAHİN GÖRGÜLÜ M., Dag İ.
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY TRANSACTION A-SCIENCE, vol.42, pp.2189-2198, 2018 (SCI-Expanded)
- XVII. **Trigonometric cubic B-spline collocation algorithm for numerical solutions of reaction-diffusion equation systems**
TOK ONARCAN A., ADAR N., DAĞ İ.
COMPUTATIONAL & APPLIED MATHEMATICS, vol.37, no.5, pp.6848-6869, 2018 (SCI-Expanded)
- XVIII. **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)
- 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, vol.91, no.4, 2018 (SCI-Expanded)
- XX. **Simulations of solitary waves of RLW equation by exponential B-spline Galerkin method**
ZORŞAHİN GÖRGÜLÜ M., Dag İ., IRK D.
CHINESE PHYSICS B, vol.26, no.8, 2017 (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, vol.77, no.2, pp.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, vol.13, no.6, pp.4975-4994, 2016 (SCI-Expanded)
- XXIII. **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)
- XXIV. **Quartic and quintic B-spline methods for advection-diffusion equation**
KORKMAZ A., Dag İ.
APPLIED MATHEMATICS AND COMPUTATION, vol.274, pp.208-219, 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. **TRIGONOMETRIC B-SPLINE COLLOCATION ALGORITHM FOR SOLVING THE RLW EQUATION**
Dag İ., IRK D., Kacmaz O., Adar N.
APPLIED AND COMPUTATIONAL MATHEMATICS, vol.15, no.1, pp.96-105, 2016 (SCI-Expanded)
- XXVII. **Extended cubic B-spline solution of the advection-diffusion equation**
IRK D., Dag İ., TOMBUL M.
KSCE JOURNAL OF CIVIL ENGINEERING, vol.19, no.4, pp.929-934, 2015 (SCI-Expanded)
- XXVIII. **Trigonometric quadratic B-spline subdomain Galerkin algorithm for the Burgers' equation**
Ay B., Dag İ., ZORŞAHİN GÖRGÜLÜ M.
OPEN PHYSICS, vol.13, no.1, pp.400-406, 2015 (SCI-Expanded)
- XXIX. **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)
- XXX. **Numerical Simulations of Boundary-Forced RLW Equation with Cubic B-Spline-based Differential Quadrature Methods**
KORKMAZ A., Dag İ.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.38, no.5, pp.1151-1160, 2013 (SCI-Expanded)
- XXXI. **The extended cubic B-spline algorithm for a modified regularized long wave equation**
Dag İ., Irk D., Sari M.
CHINESE PHYSICS B, vol.22, no.4, 2013 (SCI-Expanded)
- XXXII. **Cubic B-spline differential quadrature methods and stability for Burgers' equation**
KORKMAZ A., Dag İ.
ENGINEERING COMPUTATIONS, vol.30, no.3, pp.320-344, 2013 (SCI-Expanded)
- XXXIII. **Numerical solutions of the Kawahara type equations using radial basis functions**
DERELİ Y., Dag İ.
NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, vol.28, no.2, pp.542-553, 2012 (SCI-Expanded)
- XXXIV. **Taylor collocation method for the numerical solution of the nonlinear Schrodinger equation using quintic B-spline basis**
Aksoy A. M., Irk D., Dag İ.
PHYSICS OF WAVE PHENOMENA, vol.20, no.1, pp.67-79, 2012 (SCI-Expanded)

- XXXV. **Cubic B-spline differential quadrature methods for the advection-diffusion equation**
KORKMAZ A., Dag İ.
INTERNATIONAL JOURNAL OF NUMERICAL METHODS FOR HEAT & FLUID FLOW, vol.22, no.8, pp.1021-1036, 2012 (SCI-Expanded)
- XXXVI. **Polynomial based differential quadrature method for numerical solution of nonlinear Burgers' equation**
KORKMAZ A., Dag İ.
JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS, vol.348, no.10, pp.2863-2875, 2011 (SCI-Expanded)
- XXXVII. **Taylor-Galerkin and Taylor-collocation methods for the numerical solutions of Burgers' equation using B-splines**
Dag İ., Canivar A., Sahin A.
COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, vol.16, no.7, pp.2696-2708, 2011 (SCI-Expanded)
- XXXVIII. **B-Spline Collocation Algorithms for Numerical Solution of the RLW Equation**
SAKA B., Sahin A., Dag İ.
NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, vol.27, no.3, pp.581-607, 2011 (SCI-Expanded)
- XXXIX. **Quintic B-spline collocation method for the generalized nonlinear Schrodinger equation**
IRK D., Dag İ.
JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS, vol.348, no.2, pp.378-392, 2011 (SCI-Expanded)
- XL. **Shock wave simulations using Sinc Differential Quadrature Method**
KORKMAZ A., Dag İ.
ENGINEERING COMPUTATIONS, vol.28, pp.654-674, 2011 (SCI-Expanded)
- XLI. **Taylor-Galerkin method for advection-diffusion equation**
Dag İ., Canivar A., Sahin A.
KYBERNETES, vol.40, pp.762-777, 2011 (SCI-Expanded)
- XLII. **Numerical Simulations of the Improved Boussinesq Equation**
IRK D., Dag İ.
NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, vol.26, no.6, pp.1316-1327, 2010 (SCI-Expanded)
- XLIII. **Numerical Investigation of the Solution of Fisher's Equation via the B-Spline Galerkin Method**
Dag İ., Sahin A., Korkmaz A.
NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, vol.26, no.6, pp.1483-1503, 2010 (SCI-Expanded)
- XLIV. **A Taylor-Galerkin finite element method for the KdV equation using cubic B-splines**
Canivar A., SARI M., Dag İ.
PHYSICA B-CONDENSED MATTER, vol.405, no.16, pp.3376-3383, 2010 (SCI-Expanded)
- XLV. **Cosine Expansion-Based Differential Quadrature Algorithm for Numerical Solution of the RLW Equation**
Dag İ., Korkmaz A., SAKA B.
NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, vol.26, no.3, pp.544-560, 2010 (SCI-Expanded)
- XLVI. **Numerical solution of RLW equation using radial basis functions**
Dag İ., DERELİ Y.
INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, vol.87, no.1, pp.63-76, 2010 (SCI-Expanded)
- XLVII. **A Compact Finite Difference Method for the Solution of the Generalized Burgers-Fisher Equation**
SARI M., GÜRARSLAN G., Dag İ.
NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, vol.26, no.1, pp.125-134, 2010 (SCI-Expanded)
- XLVIII. **Soliton solutions for NLS equation using radial basis functions**
DERELİ Y., IRK D., Dag İ.
CHAOS SOLITONS & FRACTALS, vol.42, no.2, pp.1227-1233, 2009 (SCI-Expanded)

- XLIX. Crank-Nicolson - Differential quadrature algorithms for the Kawahara equation**
Korkmaz A., Dag İ.
CHAOS SOLITONS & FRACTALS, vol.42, no.1, pp.65-73, 2009 (SCI-Expanded)
- L. Quartic B-spline Galerkin approach to the numerical solution of the KdVB equation**
Saka B., DaG İ.
APPLIED MATHEMATICS AND COMPUTATION, vol.215, no.2, pp.746-758, 2009 (SCI-Expanded)
- LI. Solitary wave simulations of Complex Modified Korteweg-de Vries Equation using differential quadrature method**
Korkmaz A., Dag İ.
COMPUTER PHYSICS COMMUNICATIONS, vol.180, no.9, pp.1516-1523, 2009 (SCI-Expanded)
- LII. A differential quadrature algorithm for nonlinear Schrodinger equation**
Korkmaz A., Dag İ.
NONLINEAR DYNAMICS, vol.56, pp.69-83, 2009 (SCI-Expanded)
- LIII. A numerical solution of the RLW equation by Galerkin method using quartic B-splines**
Saka B., Dag İ.
COMMUNICATIONS IN NUMERICAL METHODS IN ENGINEERING, vol.24, no.11, pp.1339-1361, 2008 (SCI-Expanded)
- LIV. A differential quadrature algorithm for simulations of nonlinear Schrodinger equation**
Korkmaz A., Dag İ.
COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.56, no.9, pp.2222-2234, 2008 (SCI-Expanded)
- LV. A numerical study of the Burgers' equation**
Saka B., Dag İ.
JOURNAL OF THE FRANKLIN INSTITUTE-ENGINEERING AND APPLIED MATHEMATICS, vol.345, no.4, pp.328-348, 2008 (SCI-Expanded)
- LVI. Three different methods for numerical solution of the EW equation**
Saka B., Dag İ., DERELİ Y., Korkmaz A.
ENGINEERING ANALYSIS WITH BOUNDARY ELEMENTS, vol.32, no.7, pp.556-566, 2008 (SCI-Expanded)
- LVII. Solitary wave solutions of the CMKdV equation by using the quintic B-spline collocation method**
IRK D., Dag İ.
PHYSICA SCRIPTA, vol.77, no.6, 2008 (SCI-Expanded)
- LVIII. Numerical solutions of KdV equation using radial basis functions**
Dag İ., DERELİ Y.
APPLIED MATHEMATICAL MODELLING, vol.32, no.4, pp.535-546, 2008 (SCI-Expanded)
- LIX. Quintic B-spline collocation method for numerical solution of the RLW equation**
Saka B., Dag İ., IRK D.
ANZIAM JOURNAL, vol.49, no.3, pp.389-410, 2008 (SCI-Expanded)
- LX. A B-spline algorithm for the numerical solution of Fisher's equation**
Sahin A., Dag İ., Saka B.
KYBERNETES, vol.37, pp.326-342, 2008 (SCI-Expanded)
- LXI. Quartic B-spline collocation method to the numerical solutions of the Burgers' equation**
Saka B., Dag İ.
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- LXII. Quartic B-spline collocation algorithms for numerical solution of the RLW equation**
Saka B., Dag İ.
NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, vol.23, no.3, pp.731-751, 2007 (SCI-Expanded)
- LXIII. Numerical solution of the Burgers' equation over geometrically graded mesh**
Dag İ., Sahin A.
KYBERNETES, vol.36, pp.721-735, 2007 (SCI-Expanded)
- LXIV. Galerkin method for the numerical solution of the RLW equation using quintic B-splines**
Dag İ., Saka B., Irk D.
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.190, pp.532-547, 2006 (SCI-Expanded)

- LXV. **Least-squares finite element method for the advection-diffusion equation**
Dag İ., Irk D., Tombul M.
APPLIED MATHEMATICS AND COMPUTATION, vol.173, no.1, pp.554-565, 2006 (SCI-Expanded)
- LXVI. **A small time solutions for the Korteweg-de Vries equation using spline approximation**
Irk D., Dag İ., Saka B.
APPLIED MATHEMATICS AND COMPUTATION, vol.173, no.2, pp.834-846, 2006 (SCI-Expanded)
- LXVII. **B-spline Galerkin methods for numerical solutions of the Burgers' equation**
Dag İ., Saka B., Boz A.
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- LXVIII. **A numerical solution of the Burgers' equation using cubic B-splines**
Dag İ., Irk D., Saka B.
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- LXIX. **B-spline collocation methods for numerical solutions of the Burgers' equation**
Dag İ., Irk D., Sahin A.
MATHEMATICAL PROBLEMS IN ENGINEERING, no.5, pp.521-538, 2005 (SCI-Expanded)
- LXX. **A collocation method for the numerical solution of the RLW equation using cubic B-spline basis**
Saka B., Dag İ.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.30, pp.39-50, 2005 (SCI-Expanded)
- LXXI. **Application of cubic B-splines for numerical solution of the RLW equation**
Dag İ., Saka B., Irk D.
APPLIED MATHEMATICS AND COMPUTATION, vol.159, no.2, pp.373-389, 2004 (SCI-Expanded)
- LXXII. **Galerkin method for the numerical solution of the RLW equation using quadratic B-splines**
Saka B., Dag İ., Dogan A.
INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, vol.81, no.6, pp.727-739, 2004 (SCI-Expanded)
- LXXIII. **Numerical solutions of the Burgers' equation by the least-squares quadratic B-spline finite element method**
Kutluay S., ESEN A., Dag İ.
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.167, no.1, pp.21-33, 2004 (SCI-Expanded)
- LXXIV. **B-spline collocation methods for numerical solutions of the RLW equation**
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- LXXV. **Approximation of the RLW equation by the least square cubic B-spline finite element method**
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- LXXVI. **Least-squares quadratic B-spline finite element method for the regularised long wave equation**
Dag İ.
COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING, vol.182, pp.205-215, 2000 (SCI-Expanded)
- LXXVII. **A quadratic B-spline finite element method for solving nonlinear Schrodinger equation**
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COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING, vol.174, pp.247-258, 1999 (SCI-Expanded)
- LXXVIII. **The boundary-forced regularised long-wave equation.**
Gardner L., Dag İ.
NUOVO CIMENTO DELLA SOCIETA ITALIANA DI FISICA B-GENERAL PHYSICS RELATIVITY ASTRONOMY AND MATHEMATICAL PHYSICS AND METHODS, vol.110, no.12, pp.1487-1496, 1995 (SCI-Expanded)
- LXXIX. **A B-SPLINE FINITE-ELEMENT METHOD FOR THE REGULARIZED LONG-WAVE EQUATION**
GARDNER L., GARDNER G., DAG I.
COMMUNICATIONS IN NUMERICAL METHODS IN ENGINEERING, vol.11, no.1, pp.59-68, 1995 (SCI-Expanded)

Articles Published in Other Journals

- I. **NUMERICAL SOLUTIONS OF REACTION-DIFFUSION EQUATION SYSTEMS WITH TRIGONOMETRIC QUINTIC B-SPLINE COLLOCATION ALGORITHM**
TOK ONARCAN A., ADAR N., DAĞ İ.
Eskişehir Technical University Journal of Science and and Technology A- Applied Sciences and Engineering, vol.24, no.2, pp.121-140, 2023 (Peer-Reviewed Journal)
- II. **Metin Madenciligi Yöntemleri ile Twitter Verilerinden Bilgi Keşfi**
Beşkirli A., Gülbandır E., Dağ İ.
Eskişehir Türk Dünyası Uygulama ve Araştırma Merkezi Bilişim Dergisi, vol.2, no.1, pp.21-25, 2021 (Peer-Reviewed Journal)
- III. **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)
- IV. **EXTENDED B-SPLINE COLLOCATION METHOD FOR KDV-BURGERS EQUATION**
Hepson Ö., Korkmaz A., Dağ İ.
TWMS JOURNAL OF APPLIED AND ENGINEERING MATHEMATICS, vol.9, no.2, pp.267-278, 2019 (ESCI)
- V. **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)
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