

# Prof. İDİRİS DAĞ

## Personal Information

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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, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, BİLGİSAYAR MÜHENDİSLİĞİ BÖLÜMÜ, 2016 - Continues

## Academic and Administrative Experience

Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, 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 Denklemlerinin 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 denklemlerinin üstel kübik B-spline kolokasyon çözümlerinin üretilmesi, Doctorate, Ö.ERSOY(Student), 2015

DAĞ İ., Lineer olmayan kısmi türevli diferensiyel denklemlerin Taylor-kolokasyon 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 denklemlerinin B-spline sonlu elemanlar yöntemi ile nümerik çözümleri, Doctorate, A.ŞAHİN(Student), 2009

DAĞ İ., Klein-gordon denkleminin b-spline kolokasyon metodları ile çözümü, Doctorate, A.BOZ(Student), 2006

DAĞ İ., Bazı tek boyutlu lineer olmayan kısmi türevli diferensiyel denklemlerin diferensiyel quadrature 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. **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, vol.41, no.8, 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, vol.36, no.11, pp.5653-5672, 2024 (SCI-Expanded)
- III. **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)
- 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.  
APPLIED MATHEMATICS AND COMPUTATION, vol.166, no.3, pp.506-522, 2005 (SCI-Expanded)
- 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**  
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- 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.  
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- LXXII. **Galerkin method for the numerical solution of the RLW equation using quadratic B-splines**  
Saka B., Dag İ., Dogan A.  
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- 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**  
Dag İ., Dogan A., Saka B.  
INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, vol.80, no.6, pp.743-757, 2003 (SCI-Expanded)
- LXXV. **Approximation of the RLW equation by the least square cubic B-spline finite element method**  
Dag İ., Ozer M.  
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- LXXVI. **Least-squares quadratic B-spline finite element method for the regularised long wave equation**  
Dag İ.  
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- LXXVII. **A quadratic B-spline finite element method for solving nonlinear Schrodinger equation**  
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- 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)
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