

Prof. YUSUF UÇAR



Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: ABG-8562-2020

ScopusID: 55580992800

Yoksis Researcher ID: 101265

Education

Doctorate, Inonu University, Fen-Edebiyat Fakültesi, Matematik/Uygulamalı Matematik, Turkey 2005 - 2011

Postgraduate, Inonu University, Fen-Edebiyat Fakültesi, Matematik/Uygulamalı Matematik, Turkey 2003 - 2005

Undergraduate, Karadeniz Technical University, Mühendislik-Mimarlık Fakültesi, Bilgisayar Mühendisliği, Turkey 1993 - 1997

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, B-SPLINE SONLU ELEMAN YÖNTEMLERİ İLE COUPLED DİFERANSİYEL DENKLEMLERİN NÜMERİK ÇÖZÜMLERİ, Inonu University, Fen Bilimleri Enstitüsü, Matematik/Uygulamalı Matematik, 2011

Postgraduate, 1-BOYUTLU BURGERS TİPİ DENKLEMLERİN SONLU FARK ÇÖZÜMLERİ, Inonu University, Fen Bilimleri Enstitüsü, Matematik/Uygulamalı Matematik, 2005

Research Areas

Mathematics, Differential Equations, Numerical Analysis

Academic Positions

Professor, Inonu University, Fen-Edebiyat Fakültesi, Matematik, 2022 - Continues

Associate Professor, Inonu University, Fen-Edebiyat Fakültesi, Matematik, 2017 - 2022

Assistant Professor, Inonu University, Fen-Edebiyat Fakültesi, Matematik, 2012 - 2017

Lecturer, Malatya Turgut Özal University, Akçadağ Vocational School, Department Of Computer Technologies, 1999 -

Academic and Administrative Experience

Yüksekökol Yönetim Kurulu Üyesi, Inonu University, Fen-Edebiyat Fakültesi, Matematik, 2016 - 2018

Inonu University, Akçadağ Meslek Yüksekokulu, 2009 - 2012

Inonu University, Akçadağ Meslek Yüksekokulu, Bilgisayar Teknolojileri Bölümü, 2008 - 2011

Inonu University, Akçadağ Meslek Yüksekokulu, Bilgisayar Teknolojileri Bölümü, 2000 - 2007

Inonu University, Akçadağ Meslek Yüksekokulu, Bilgisayar Teknolojileri Bölümü, 2000 - 2002

Courses

Doctorate

Doctorate, 2021 - 2022

Doctorate, 2021 - 2022

Postgraduate

UYGULAMALI MATEMATİK I, Postgraduate, 2017 - 2018

Undergraduate

GENEL MATEMATİK I, Undergraduate, 2017 - 2018

ALGORİTMA VE PROGRAMLAMAYA GİRİŞ I, Undergraduate, 2017 - 2018, 2016 - 2017

GÖRSEL PROGRAMLAMA, Undergraduate, 2017 - 2018, 2016 - 2017

ALGORİTMA VE PROGRAMLAMAYA GİRİŞ II, Undergraduate, 2017 - 2018, 2016 - 2017

SEMBOLİK PROGRAMLAMA, Undergraduate, 2017 - 2018, 2016 - 2017

WEB TASARIMIN TEMELLERİ, Undergraduate, 2017 - 2018, 2016 - 2017

İNTERNET PROGRAMCILIĞI, Undergraduate, 2017 - 2018, 2016 - 2017

VERİ TABANI YÖNETİM SİSTEMLERİ, Undergraduate, 2017 - 2018, 2016 - 2017

NESNE TABANLI PROGRAMLAMA, Undergraduate, 2017 - 2018, 2016 - 2017

NESNE TABANLI PROGRAMLAMA, Undergraduate, 2017-2018

WEB TASARIMIN TEMELLERİ, Undergraduate, 2017-2018

ALGORİTMA VE PROGRAMLAMAYA GİRİŞ II, Undergraduate, 2017-2018

SEMBOLİK PROGRAMLAMA, Undergraduate, 2017-2018

GENEL MATEMATİK I, Undergraduate, 2017-2018

ALGORİTMA VE PROGRAMLAMAYA GİRİŞ I, Undergraduate, 2017-2018

İNTERNET PROGRAMCILIĞI, Undergraduate, 2017-2018

GÖRSEL PROGRAMLAMA, Undergraduate, 2017-2018

VERİ TABANI YÖNETİM SİSTEMLERİ, Undergraduate, 2017-2018

GÖRSEL PROGRAMLAMA, Undergraduate, 2016-2017

İNTERNET PROGRAMCILIĞI, Undergraduate, 2016-2017

NESNE TABANLI PROGRAMLAMA, Undergraduate, 2016-2017

SEMBOLİK PROGRAMLAMA, Undergraduate, 2016-2017

ALGORİTMA VE PROGRAMLAMAYA GİRİŞ II, Undergraduate, 2016-2017

VERİ TABANI YÖNETİM SİSTEMLERİ, Undergraduate, 2016-2017

ALGORİTMA VE PROGRAMLAMAYA GİRİŞ I, Undergraduate, 2016-2017

WEB TASARIMIN TEMELLERİ, Undergraduate, 2016-2017

İNTERNET PROGRAMCILIĞI, Undergraduate, 2015-2016

ALGORİTMA VE PROGRAMLAMAYA GİRİŞ II, Undergraduate, 2015-2016

ALGORİTMA VE PROGRAMLAMAYA GİRİŞ I, Undergraduate, 2015-2016

WEB TASARIMIN TEMELLERİ, Undergraduate, 2015-2016

VERİ TABANI YÖNETİM SİSTEMLERİ, Undergraduate, 2015-2016

GÖRSEL PROGRAMLAMA, Undergraduate, 2015-2016
DİFERANSİYEL DENKLEMLER, Undergraduate, 2014-2015
VERİ TABANI YÖNETİM SİSTEMLERİ, Undergraduate, 2014-2015
ALGORİTMA VE PROGRAMLAMAYA GİRİŞ I, Undergraduate, 2014-2015
ALGORİTMA VE PROGRAMLAMAYA GİRİŞ II, Undergraduate, 2014-2015
GÖRSEL PROGRAMLAMA, Undergraduate, 2014-2015
ALGORİTMA VE PROGRAMLAMAYA GİRİŞ I, Undergraduate, 2013-2014
WEB TASARIMIN TEMELLERİ, Undergraduate, 2013-2014
VERİ TABANI YÖNETİM SİSTEMLERİ, Undergraduate, 2013-2014
ALGORİTMA VE PROGRAMLAMAYA GİRİŞ II, Undergraduate, 2013-2014
GÖRSEL PROGRAMLAMA, Undergraduate, 2013-2014

Associate Degree

MATEMATİK I, Associate Degree, 2017 - 2018, 2016 - 2017
MATEMATİK II, Associate Degree, 2017 - 2018, 2016 - 2017
MATEMATİK II, Associate Degree, 2017-2018
MATEMATİK I, Associate Degree, 2017-2018
MATEMATİK I, Associate Degree, 2016-2017
MATEMATİK II, Associate Degree, 2016-2017
AÇIK KAYNAK İŞLETİM SİSTEMLERİ, Associate Degree, 2015-2016
PROGRAMLAMA TEMELLERİ, Associate Degree, 2015-2016
NESNE TABANLI PROGRAMLAMA-2, Associate Degree, 2015-2016
DELPHİ PROGRAMLAMA I, Associate Degree, 2015-2016
NESNE TABANLI PROGRAMLAMA-2, Associate Degree, 2014-2015
DELPHİ PROGRAMLAMA I, Associate Degree, 2014-2015
PROGRAMLAMA TEMELLERİ, Associate Degree, 2014-2015
NESNE TABANLI PROGRAMLAMA-2, Associate Degree, 2013-2014
VERİ TABANI VE YÖNETİMİ, Associate Degree, 2013-2014
DELPHİ PROGRAMLAMA I, Associate Degree, 2013-2014
PROGRAMLAMA TEMELLERİ, Associate Degree, 2013-2014
MATEMATİK, Associate Degree, 2012-2013
MESLEKİ MATEMATİK, Associate Degree, 2012-2013

Undergraduate Double Major

UYGULAMALI MATEMATİK I, Undergraduate Double Major, 2017-2018
İLERİ PROGRAMLAMA, Undergraduate Double Major, 2013-2014

Undergraduate Minor

SONLU FARK YÖNTEMLERİ II, Undergraduate Minor, 2013-2014
SONLU FARK YÖNTEMLERİ I, Undergraduate Minor, 2012-2013

Supervised Theses

Kutluay S., Uçar Y., 1-Boyutlu Genelleştirilmiş Rosenau-KdV Denklemi Ve Nümerik Çözümü, Postgraduate, N.SAKAR(Student), 2022
Yağmurlu N. M., Uçar Y., Rosenau-Burgers Denklemine Nümerik Çözümüne Yeni Bir Yaklaşım, Postgraduate, A.AHMEDOV(Student), 2022
Uçar Y., Yağmurlu N. M., İkili Burgers denkleminin trigonometrik B-spline kollokasyon yöntemi ile nümerik çözümleri, Postgraduate, M.KEREM(Student), 2021
Uçar Y., Burgers tipi denklemlerin trigonometrik B-spline kollokasyon sonlu eleman yöntemiyle nümerik çözümleri, Postgraduate, İ.DİKEN(Student), 2020
Uçar Y., Trigonometrik B-spline kollokasyon sonlu eleman yöntemiyle düzenli uzun dalga (RLW) denkleminin nümerik çözümleri, Postgraduate, H.YILDIRIM(Student), 2020

Uçar Y., Yağmurlu N. M., Operatör splitting B-spline kollokasyon yöntemi ile bazı kısmi türevli diferansiyel denklemlerin çözümleri, Doctorate, İ.ÇELİKKAYA(Student), 2018
UÇAR Y., 2-boyutlu burgers denkleminin sonlu fark yöntemleri ile nümerik çözümleri, Postgraduate, E.KESER(Student), 2016

Journal articles indexed in SCI, SSCI, and AHCI

- I. **Numerical solution of the coupled Burgers equation by trigonometric B-spline collocation method**
Uçar Y., Yağmurlu N. M., Yiğit M. K.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.46, no.5, pp.6025-6041, 2023 (SCI-Expanded)
- II. **Numerical approximation to the MEW equation for the single solitary wave and different types of interactions of the solitary waves**
Başhan A., Uçar Y., Yağmurlu N. M., Esen A.
JOURNAL OF DIFFERENCE EQUATIONS AND APPLICATIONS, no.28, pp.1-21, 2022 (SCI-Expanded)
- III. **An efficient Strang splitting technique combined with the multiquadric-radial basis function for the Burgers' equation**
SEYDAOĞLU M., UÇAR Y., KUTLUAY S.
COMPUTATIONAL & APPLIED MATHEMATICS, vol.40, no.8, 2021 (SCI-Expanded)
- IV. **Strang time-splitting technique for the generalised Rosenau-RLW equation**
KUTLUAY S., Karta M., UÇAR Y.
PRAMANA-JOURNAL OF PHYSICS, vol.95, no.3, 2021 (SCI-Expanded)
- V. **A new perspective for the numerical solution of the Modified Equal Width wave equation**
BAŞHAN A., YAĞMURLU N. M., UÇAR Y., ESEN A.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.44, no.11, pp.8925-8939, 2021 (SCI-Expanded)
- VI. **Numerical solutions of Boussinesq equation using Galerkin finite element method**
UÇAR Y., ESEN A., Karaagac B.
NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, vol.37, no.2, pp.1612-1630, 2021 (SCI-Expanded)
- VII. **Finite difference method combined with differential quadrature method for numerical computation of the modified equal width wave equation**
Bashan A., YAĞMURLU N. M., UÇAR Y., ESEN A.
NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, vol.37, no.1, pp.690-706, 2021 (SCI-Expanded)
- VIII. **Dynamics of modified improved Boussinesq equation via Galerkin Finite Element Method**
Karaagac B., UÇAR Y., ESEN A.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.43, no.17, pp.10204-10220, 2020 (SCI-Expanded)
- IX. **Operator splitting for numerical solution of the modified Burgers' equation using finite element method**
UÇAR Y., YAĞMURLU N. M., CELIKKAYA I.
NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, vol.35, no.2, pp.478-492, 2019 (SCI-Expanded)
- X. **OPERATOR SPLITTING FOR NUMERICAL SOLUTIONS OF THE RLW EQUATION**
YAĞMURLU N. M., UÇAR Y., CELIKKAYA I.
JOURNAL OF APPLIED ANALYSIS AND COMPUTATION, vol.8, no.5, pp.1494-1510, 2018 (SCI-Expanded)
- XI. **A new perspective for the numerical solutions of the cmKdV equation via modified cubic B-spline differential quadrature method**
Bashan A., YAĞMURLU N. M., UÇAR Y., ESEN A.
INTERNATIONAL JOURNAL OF MODERN PHYSICS C, vol.29, no.6, 2018 (SCI-Expanded)
- XII. **A new perspective for quintic B-spline based Crank-Nicolson-differential quadrature method algorithm for numerical solutions of the nonlinear Schrodinger equation**
Bashan A., UÇAR Y., YAĞMURLU N. M., ESEN A.
EUROPEAN PHYSICAL JOURNAL PLUS, vol.133, no.1, 2018 (SCI-Expanded)

- XIII. **Numerical Solutions of the Improved Boussinesq Equation by the Galerkin Quadratic B-Spline Finite Element Method**
KARAAĞAÇ B., UÇAR Y., ESEN A.
FILOMAT, vol.32, no.16, pp.5573-5583, 2018 (SCI-Expanded)
- XIV. **An effective approach to numerical soliton solutions for the Schrodinger equation via modified cubic B-spline differential quadrature method**
BAŞHAN A., YAĞMURLU N. M., UÇAR Y., ESEN A.
CHAOS SOLITONS & FRACTALS, vol.100, pp.45-56, 2017 (SCI-Expanded)
- XV. **Numerical Solutions of the Modified Burgers Equation by a Cubic B-spline Collocation Method**
KUTLUAY S., UÇAR Y., YAĞMURLU N. M.
BULLETIN OF THE MALAYSIAN MATHEMATICAL SCIENCES SOCIETY, vol.39, no.4, pp.1603-1614, 2016 (SCI-Expanded)
- XVI. **A Collocation Finite Element Solution for Stefan Problems with Periodic Boundary Conditions**
KARABENLİ H., UÇAR Y., AKSAN E. N.
FILOMAT, vol.30, no.3, pp.699-709, 2016 (SCI-Expanded)
- XVII. **A new approach on numerical solutions of the Improved Boussinesq type equation using quadratic B-spline Galerkin finite element method**
UÇAR Y., KARAAĞAÇ B., ESEN A.
APPLIED MATHEMATICS AND COMPUTATION, vol.270, pp.148-155, 2015 (SCI-Expanded)
- XVIII. **Numerical solutions of the MRLW equation by cubic B-spline Galerkin finite element method**
Karakoc S. B. G., UÇAR Y., YAGMURLU N. M.
KUWAIT JOURNAL OF SCIENCE, vol.42, no.2, pp.141-159, 2015 (SCI-Expanded)
- XIX. **Numerical solutions of the coupled Burgers' equation by the Galerkin quadratic B-spline finite element method**
KUTLUAY S., UÇAR Y.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.36, no.17, pp.2403-2415, 2013 (SCI-Expanded)
- XX. **Numerical solution of a coupled modified Korteweg-de Vries equation by the Galerkin method using quadratic B-splines**
KUTLUAY S., UÇAR Y.
INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, vol.90, no.11, pp.2353-2371, 2013 (SCI-Expanded)
- XXI. **A Numerical Solution to Fractional Diffusion Equation for Force-Free Case**
TASBOZAN O., ESEN A., YAĞMURLU N. M., UÇAR Y.
ABSTRACT AND APPLIED ANALYSIS, 2013 (SCI-Expanded)
- XXII. **A Quadratic B-Spline Galerkin Approach for Solving a Coupled KdV Equation**
KUTLUAY S., UÇAR Y.
MATHEMATICAL MODELLING AND ANALYSIS, vol.18, no.1, pp.103-121, 2013 (SCI-Expanded)
- XXIII. **A Galerkin Finite Element Method to Solve Fractional Diffusion and Fractional Diffusion-Wave Equations**
ESEN A., UÇAR Y., Yagmurlu N. M., TASBOZAN O.
MATHEMATICAL MODELLING AND ANALYSIS, vol.18, no.2, pp.260-273, 2013 (SCI-Expanded)
- XXIV. **Numerical approximation to a solution of the modified regularized long wave equation using quintic B-splines**
KARAKOÇ S. B. G., YAĞMURLU N. M., UÇAR Y.
BOUNDARY VALUE PROBLEMS, 2013 (SCI-Expanded)

Articles Published in Other Journals

- I. **Numerical Investigation of Modified Fornberg Whitham Equation**
YAĞMURLU N. M., YILDIZ E., UÇAR Y., ESEN A.
Mathematical Sciences and Applications E-Notes, vol.9, no.2, pp.81-94, 2021 (Peer-Reviewed Journal)

- II. **Higher Order Splitting Method for Numerical Solution Of Nonlinear Coupled System Viscous Burger's Equation**
YAĞMURLU N. M., UÇAR Y., ÇELİKKAYA İ.
Konuralp Journal of Mathematics, vol.8, no.2, pp.234-243, 2020 (Peer-Reviewed Journal)
- III. **Numerical Solution of Burger's Type Equation Using Finite Element Collocation method with Strang Splitting**
UÇAR Y., YAĞMURLU N. M., ÇELİKKAYA İ.
Mathematical Sciences and Applications E-Notes, vol.8, no.1, pp.29-45, 2020 (Peer-Reviewed Journal)
- IV. **Collocation Method for the KdV-Burgers-Kuramoto Equation with Caputo Fractional Derivative**
YAĞMURLU N. M., UÇAR Y., ESEN A.
Fundamentals of Contemporary Mathematical Sciences, vol.1, no.1, pp.1-13, 2020 (Peer-Reviewed Journal)
- V. **Numerical Approximation of the Combined KdV-mKdV Equation via the Quintic B-Spline Differential Quadrature Method**
YAĞMURLU N. M., UÇAR Y., BAŞHAN A.
Adıyaman University Journal of Science, vol.9, no.2, pp.386-403, 2019 (Peer-Reviewed Journal)
- VI. **A New Perspective on The Numerical Solution for Fractional Klein Gordon Equation**
Karaagac B., UÇAR Y., YAĞMURLU N. M., ESEN A.
JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI, vol.22, no.2, pp.443-451, 2019 (ESCI)
- VII. **A Finite Element Method to Solve the System of Two-dimensional Burger' Equations**
KUTLUAY S., YAĞMURLU N. M., UÇAR Y., TAŞBOZAN O.
International Journal of Engineering Mathematics Physics, vol.2019, no.1, pp.1-10, 2019 (Peer-Reviewed Journal)
- VIII. **NUMERICAL SOLUTIONS AND STABILITY ANALYSIS OF MODIFIED BURGERS EQUATION VIA MODIFIED CUBIC B-SPLINE DIFFERENTIAL QUADRATURE METHODS**
UÇAR Y., YAĞMURLU N. M., Bashan A.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.37, no.1, pp.129-142, 2019 (ESCI)
- IX. **NUMERICAL SOLUTIONS FOR THE FOURTH ORDER EXTENDED FISHER-KOLMOGOROV EQUATION WITH HIGH ACCURACY BY DIFFERENTIAL QUADRATURE METHOD**
Bashan A., UÇAR Y., YAĞMURLU N. M., ESEN A.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.9, no.3, pp.273-284, 2018 (ESCI)
- X. **Numerical Solutions of the Modified Burgers' Equation by Finite Difference Methods**
Ucar Y., Yagmurlu N. M., Tasbozan O.
JOURNAL OF APPLIED MATHEMATICS STATISTICS AND INFORMATICS, vol.13, no.1, pp.19-30, 2017 (ESCI)
- XI. **A Numerical Approach to the Rosenau-KdV equation using Galerkin Cubic Finite Element Method**
UÇAR Y., KARAAGAC B., KUTLUAY S.
INTERNATIONAL JOURNAL OF APPLIED MATHEMATICS & STATISTICS, vol.56, no.3, pp.83-92, 2017 (ESCI)
- XII. **A Numerical Solution of the Modified Burgers Equation Using Linearized Finite Difference Methods**
UÇAR Y., YAĞMURLU N. M., GÜLBAHAR S., KOSE E. G.
Proceedings of IAM, vol.5, no.2, pp.184-195, 2016 (Peer-Reviewed Journal)
- XIII. **Numerical solution of the complex modified Korteweg-de Vries equation by DQM**
Başhan A., Uçar Y., Yağmurlu N. M., Esen A.
JOURNAL OF PHYSICS: CONFERENCE SERIES, vol.766, no.1, pp.1-6, 2016 (Peer-Reviewed Journal)
- XIV. **Numerical Solutions of the Sine-Gordon Equation by Collocation Method**
TASBOZAN O., YAĞMURLU N. M., UÇAR Y., ESEN A.
Sohag J. Math, vol.3, no.1, pp.1-6, 2016 (Peer-Reviewed Journal)
- XV. **Numerical Solutions of the Combined KdV MKdV Equation by a quinic B spline Collocation Method**
YAĞMURLU N. M., TAŞBOZAN O., UÇAR Y., ESEN A.
Applied Mathematics & Information Sciences Letters, vol.4, no.1, pp.19-24, 2016 (Peer-Reviewed Journal)
- XVI. **A B-spline collocation method for solving fractional diffusion and fractional diffusion-wave equations**

ESEN A., TASBOZAN O., UÇAR Y., YAĞMURLU N. M.

TBILISI MATHEMATICAL JOURNAL, vol.8, no.2, pp.181-193, 2015 (ESCI)

XVII. Numerical solution of some fractional partial differential equations using collocation finite element method

UÇAR Y., YAĞMURLU N. M., Tasbozan O., ESEN A.

Progress in Fractional Differentiation and Applications, vol.1, no.3, pp.157-164, 2015 (Scopus)

XVIII. Solving Fractional Diffusion And Fractional Diffusion Wave Equations By Petrov Galerkin Finiyte Element Method

ESEN A., UÇAR Y., YAĞMURLU N. M., TAŞBOZAN O.

TWMS J. App. Eng. Math., vol.4, no.2, pp.155-168, 2014 (Peer-Reviewed Journal)

XIX. The Solution of Advection Diffusion Equation by the Finite Elements Method

BULUT H., AKTURK T., UÇAR Y.

International Journal of Basic & Applied Sciences IJBAS-IJENS, vol.13, no.1, pp.88-97, 2013 (Peer-Reviewed Journal)

XX. Different Linearization Techniques for the Numerical Solution of the MEW Equation

KARAKOÇ S. B. G., UÇAR Y., YAĞMURLU N. M.

Selçuk Journal of Applied Mathematics, vol.13, no.2, pp.43-62, 2012 (Peer-Reviewed Journal)

Papers Presented at Peer-Reviewed Scientific Conferences

I. Solving 5th Order KdV-Burger-Fisher Equation via Quintic Trigonometric B-spline Collocation Method

KARAAĞAÇ B., ESEN A., UÇAR Y., YAĞMURLU N. M.

6 th INTERNATIONAL CONFERENCE ON LIFE AND ENGINEERING SCIENCES, Antalya, Turkey, 2 - 05 November 2023, (Summary Text)

II. THE COLLOCATION METHOD FOR SIMPLIFIED MODIFIED CAMASSA HOLM EQUATION

KARAAĞAÇ B., UÇAR Y., ESEN A.

BINGOL 1st INTERNATIONAL CONFERENCE ON APPLIED SCIENCES, Bingöl, Turkey, 27 - 29 October 2023, (Full Text)

III. A COLLOCATION FINITE ELEMENT SOLUTION FOR THE FRACTIONAL FOKKER-PLANCK PROBLEM

KARABENLİ H., ESEN A., UÇAR Y.

CMES-2022, Ordu, Turkey, 20 - 22 May 2022, (Summary Text)

IV. ON THE NUMERICAL SOLUTIONS OF TIME FRACTIONAL FITZHUGH NAGUMO EQUATION WITH FORCED TERM

Köse G. E., UÇAR Y., ESEN A.

CMES-2022, Ordu, Turkey, 20 - 22 May 2022, (Summary Text)

V. Numerical Solution of the coupled Burgers' equation by Trigonometric B-spline Collocation Method

UÇAR Y., YAĞMURLU N. M., YİĞİT M. K.

CMES-2021, Van, Turkey, 8 - 10 June 2021, (Summary Text)

VI. A new perspective for the numerical solutions of the cmKdV equation via modified cubic B-spline differential quadrature method

BAŞHAN A., YAĞMURLU N. M., UÇAR Y., ESEN A.

International Congress on Fundamental and Applied Sciences, 18 - 22 June 2018, (Summary Text)

VII. A New Perspective for the Numerical Solution for Fractional Klein Gordon Equation

KARAAĞAÇ B., UÇAR Y., YAĞMURLU N. M., ESEN A.

3rd International Conference On Computational Mathematics and Engineering Sciences, 4 - 06 May 2018, (Summary Text)

VIII. Galerkin Finite Element Method For Coupled Klein Gordon Equation in Two Component Systems

UÇAR Y., KARAAĞAÇ B., YAĞMURLU N. M., ESEN A.

3rd International Conference On Computational Mathematics and Engineering Sciences, 4 - 06 May 2018,

(Summary Text)

- IX. **An effective approach to numerical soliton solutions for the Schrödinger equation via modified cubic B-spline differential quadrature method**
BAŞHAN A., YAĞMURLU N. M., UÇAR Y., ESEN A.
Caucasian Mathematics Conference II (CMC II), Van, Turkey, 22 - 24 August 2017, (Summary Text)
- X. **A Quintic B-spline based Crank-Nicolson-Differential Quadrature Method algorithm for numerical solutions of the nonlinear Schrödinger equation**
BAŞHAN A., UÇAR Y., YAĞMURLU N. M., ESEN A.
International Conference on Applied Analysis and Mathematical Modeling, ICAAMM17, İstanbul, Turkey, 3 - 07 July 2017, (Summary Text)
- XI. **A new perspective: Numerical solutions of the modified improved Boussinesq equation using Lumped Galerkin Approach**
KARAAĞAÇ B., UÇAR Y., ESEN A.
International Conference on Applied Analysis and Mathematical Modeling, ICAAMM17, İstanbul, Turkey, 3 - 07 July 2017, (Summary Text)
- XII. **Numerical Approximations of the Combined KdV-mKdV Equation via the Quintic B-spline Differential Quadrature Method**
YAĞMURLU N. M., UÇAR Y., BAŞHAN A.
International Conference on Applied Analysis and Mathematical Modeling, ICAAMM17, İstanbul, Turkey, 3 - 07 July 2017, (Summary Text)
- XIII. **Numerical solutions for the fourth order extended Fisher-Kolmogorov equation with high accuracy by differential quadrature method**
BAŞHAN A., UÇAR Y., YAĞMURLU N. M., ESEN A.
International Conference on Applied Analysis and Mathematical Modeling, ICAAMM17, 3 - 07 July 2017, (Summary Text)
- XIV. **Numerical Solution of the Modified Burgers Equation using Cubic B-spline Collocation Method with a Splitting Technique**
UÇAR Y., YAĞMURLU N. M., ÇELİKKAYA İ.
International Conference on Applied Analysis and Mathematical Modeling, ICAAMM17, İstanbul, Turkey, 3 - 07 July 2017, (Summary Text)
- XV. **A Splitting Technique Based on the Cubic B-Spline Collocation Method for RLW Equation**
YAĞMURLU N. M., UÇAR Y., ÇELİKKAYA İ.
International Conference on Mathematics and Mathematics Education (ICMME-2017), Şanlıurfa, Turkey, 11 - 13 May 2017, (Summary Text)
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