

Prof. NURİ MURAT YAĞMURLU



Personal Information

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Publons / Web Of Science ResearcherID: AAB-8514-2020

ScopusID: 55653611400

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Education Information

Doctorate, Inonu University, Fen Bilimleri Enstitüsü, Uygulamalı Matematik, Turkey 2004 - 2011

Postgraduate, Inonu University, Sosyal Bilimler Enstitüsü, Ekonometri, Turkey 1995 - 1997

Undergraduate, Middle East Technical University, Faculty Of Engineering, Bilgisayar Mühendisliği, Turkey 1988 - 1993

Biography

Aday, Nuri Murat YAĞMURLU, 14.07.1970 tarihinde Malatya'da doğdu. İlk ve orta öğrenimini "Malatya Hasan Varol İlkokulu", "Malatya Hasan Varol Ortaokulu" ve "Malatya Lisesi" nde tamamladı. 1988 yılında Orta Doğu Teknik Üniversitesi Mühendislik Fakültesi Bilgisayar Mühendisliği Bölümünde lisans öğrenimine başladı.

1995 yılında İnönü Üniversitesi Sosyal Bilimleri Enstitüsü, Ekonometri Ana Bilim dalında yüksek lisansa başlayan aday 1994 yılında İnönü Üniversitesi Malatya Meslek Yüksekokulu Teknik Programlar Bölümünde Öğretim Görevlisi olarak göreve başladı. 2004 yılında İnönü Üniversitesi Fen Bilimleri Enstitüsünde Uygulamalı Matematik bilim dalında bütünlük doktora öğrenimine başladı.

2000 Aralık döneminde "Askerlik Dairesi Başkanlığı" nda yedek subay olarak vatani görevini tamamlayan aday 2000 Aralık ayında Teknik Programlar Bölümünde ara verdiği görevine tekrar başladı.

2011 yılında İnönü Üniversitesi Fen-Edebiyat Fakültesi Matematik Bölümünde yardımcı doçent olarak göreve başladı. 2547 sayılı Yükseköğretim kanununun ilgili maddeleri ve doçentlik sınav yönetmeliği hükümleri uyarınca 10.10.2017 tarihinde Orta Doğu Teknik Üniversitesin'de yapılan doçentlik sınavında başarılı oldu. 08.03.2018 tarihinde İnönü Üniversitesi Fen-Edebiyat Fakültesi Matematik Bölümü'ne doçent olarak atandı. Evli ve 2 çocuk babası olup halen aynı bölümde görevine devam etmektedir.

Foreign Languages

English, C2 Mastery

Dissertations

Doctorate, 2-boyutlu kısmi diferansiyel denklemlerin B-spline sonlu eleman yöntemleri ile nümerik çözümleri, Inonu University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2011

Postgraduate, Doğrusal dışı optimizasyon yöntemlerinin mukayesesi ve bir algoritma denemesi, Inonu University, İktisadi ve İdari Bilimler Fakültesi, Ekonometri Bölümü, 1997

Research Areas

Mathematics, Differential Equations, Numerical Analysis, Natural Sciences

Academic Titles / Tasks

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

Associate Professor, Inonu University, Fen-Edebiyat Fakültesi, Matematik, 2018 - 2022

Assistant Professor, Inonu University, Fen-Edebiyat Fakültesi, Matematik, 2012 - 2018

Assistant Professor, Inonu University, Fen-Edebiyat Fakültesi, Matematik, 2011 - 2018

Lecturer, Inonu University, Malatya Meslek Yüksekokulu, Bilgisayar Teknolojileri, 1994 - 2011

Academic and Administrative Experience

Farabi Program Department Coordinator, Inonu University, Fen-Edebiyat Fakültesi, Matematik, 2021 - Continues

Mevlana Exchange Program Department Coordinator, Inonu University, Fen-Edebiyat Fakültesi, Matematik, 2021 - Continues

Enstitü Yönetim Kurulu Üyesi, Inonu University, Fen Bilimleri Enstitüsü, 2019 - Continues

Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Inonu University, Fen-Edebiyat Fakültesi, Matematik, 2018 - Continues

Yüksekokul Yönetim Kurulu Üyesi, Inonu University, Malatya Meslek Yüksekokulu, 2016 - Continues

Inonu University, Fen-Edebiyat Fakültesi, 2012 - Continues

Inonu University, Malatya Meslek Yüksekokulu, 2010 - 2011

Inonu University, Malatya Meslek Yüksekokulu, 2009 - 2011

Courses

Sonlu Eleman Yöntemleri, Doctorate, 2021 - 2022

SONLU ELEMAN YÖNTEMLERİ II, Undergraduate Minor, 2021-2022

SEMBOLİK PROGRAMLAMA, Undergraduate, 2021-2022

SINIR DEĞER PROBLEMLERİ, Undergraduate Minor, 2021-2022

Sınır Değer Problemleri, Doctorate, 2021 - 2022

İNTERNET PROGRAMCILIĞI, Undergraduate, 2021-2022

JAVA PROGRAMLAMA VE MOBİL UYGULAMALAR, Associate Degree, 2021-2022

ALGORİTMA VE PROGRAMLAMAYA GİRİŞ II, Undergraduate, 2021-2022

VERİ TABANI YÖNETİM SİSTEMLERİ, Undergraduate, 2021-2022

İNTERNET PROGRAMCILIĞI, Undergraduate, 2020-2021

ALGORİTMA VE PROGRAMLAMAYA GİRİŞ, Undergraduate, 2020-2021

NESNE TABANLI PROGRAMLAMA, Undergraduate, 2020-2021

GÖRSEL PROGRAMLAMA, Undergraduate, 2020-2021

WEB TASARIMININ TEMELLERİ, Undergraduate, 2020-2021

SONLU ELEMEN YÖNTEMLERİ II, Undergraduate Minor, 2020-2021
VERİ TABANI YÖNETİM SİSTEMLERİ, Undergraduate, 2020-2021
SEMBOLİK PROGRAMLAMA, Undergraduate, 2020-2021
İNTERNET PROGRAMCILIĞI, Undergraduate, 2019-2020
GÖRSEL PROGRAMLAMA, Undergraduate, 2019-2020
NESNE TABANLI PROGRAMLAMA, Undergraduate, 2019-2020
VERİTABANI YÖNETİM SİSTEMİ, Undergraduate, 2019-2020
ALGORİTMA VE PROGRAMLAMAYA GİRİŞ, Undergraduate, 2019-2020
SEMBOLİK PROGRAMLAMA, Undergraduate, 2019-2020
WEB TASARIMININ TEMELLERİ, Undergraduate, 2019-2020
GÖRSEL PROGRAMLAMA, Undergraduate, 2018-2019
NESNE TABANLI PROGRAMLAMA, Undergraduate, 2018-2019
ALGORİTMA VE PROGRAMLAMAYA GİRİŞ, Undergraduate, 2018-2019
ALGORİTMA VE PROGRAMLAMAYA GİRİŞ, Undergraduate, 2018-2019
WEB TASARIMININ TEMELLERİ, Undergraduate, 2018-2019
İNTERNET PROGRAMCILIĞI, Undergraduate, 2018-2019
SEMBOLİK PROGRAMLAMA, Undergraduate, 2018-2019
VERİTABANI YÖNETİM SİSTEMİ, Undergraduate, 2018-2019
ALGORİTMA VE PROGRAMLAMAYA GİRİŞ, Undergraduate, 2017-2018
Algoritma ve Programlamaya Giriş-I, Undergraduate, 2017 - 2018
GÖRSEL PROGRAMLAMA, Undergraduate, 2017-2018
SEMBOLİK PROGRAMLAMA, Undergraduate, 2017-2018
NESNE TABANLI PROGRAMLAMA, Undergraduate, 2017-2018
Sembolik Programlama, Undergraduate, 2017 - 2018
WEB TASARIMININ TEMELLERİ, Undergraduate, 2017-2018
İNTERNET PROGRAMCILIĞI, Undergraduate, 2017-2018
VERİTABANI YÖNETİM SİSTEMİ, Undergraduate, 2017-2018
Web Tasarımının Temelleri, Undergraduate, 2017 - 2018
WEB TASARIMININ TEMELLERİ, Undergraduate, 2016-2017
İNTERNET PROGRAMCILIĞI, Undergraduate, 2016-2017
VERİ TABANI YÖNETİM SİSTEMLERİ, Undergraduate, 2016-2017
DELPHİ PROGRAMLAMA-I, Associate Degree, 2016-2017
NESNE TABANLI PROGRAMLAMA-I, Undergraduate, 2016-2017
MESLEKİ YABANCI DİL-I, Associate Degree, 2016-2017
MESLEKİ YABANCI DİL-II, Associate Degree, 2016-2017
SEMBOLİK PROGRAMLAMA, Undergraduate, 2016-2017
DELPHİ PROGRAMLAMA-II, Associate Degree, 2016-2017
ALGORİTMA VE PROGRAMLAMAYA GİRİŞ, Undergraduate, 2016-2017
GÖRSEL PROGRAMLAMA, Undergraduate, 2016-2017
ALGORİTMA VE PROGRAMLAMAYA GİRİŞ, Undergraduate, 2015-2016
PROGRAMLAMA TEMELLERİ, Associate Degree, 2015-2016
WEB TASARIMININ TEMELLERİ, Undergraduate, 2015-2016
DELPHİ PROGRAMLAMA-II, Associate Degree, 2015-2016
GÖRSEL PROGRAMLAMA, Undergraduate, 2015-2016
DELPHİ PROGRAMLAMA-I, Associate Degree, 2015-2016
MESLEKİ YABANCI DİL-II, Associate Degree, 2015-2016
MESLEKİ YABANCI DİL-I, Associate Degree, 2015-2016
İNTERNET PROGRAMCILIĞI, Undergraduate, 2015-2016
NESNE TABANLI PROGRAMLAMA-I, Undergraduate, 2015-2016
DİFERANSİYEL DENKLEMLER, Undergraduate, 2014-2015
SONLU ELEMEN YONTEMLERİ I, Undergraduate Minor, 2014-2015

WEB TASARIMININ TEMELLERİ, Undergraduate, 2014-2015
GÖRSEL PROGRAMLAMA, Undergraduate, 2014-2015
İNTERNET PROGRAMCILIĞI-I, Associate Degree, 2013-2014
İLERİ PROGRAMLAMA, Undergraduate Double Major, 2013-2014
ALGORİTMA VE PROGRAMLAMAYA GİRİŞ, Undergraduate, 2013-2014
VERİ TABANI YÖNETİM SİSTEMLERİ, Undergraduate, 2013-2014
AKADEMİK İNGİLİZCE, Undergraduate Double Major, 2013-2014
NESNE TABANLI PROGRAMLAMA-I, Associate Degree, 2013-2014
İNTERNET PROGRAMCILIĞI, Undergraduate, 2013-2014
İNTERNET PROGRAMCILIĞI-I, Associate Degree, 2012-2013
NESNE TABANLI PROGRAMLAMA-I, Associate Degree, 2012-2013
NESNE TABANLI PROGRAMLAMA-I, Associate Degree, 2011-2012
İNTERNET PROGRAMCILIĞI-I, Associate Degree, 2011-2012
MESLEKİ YABANCI DİL-II, Associate Degree, 2011-2012
DELPHİ PROGRAMLAMA-I, Associate Degree, 2011-2012
DELPHİ PROGRAMLAMA-I, Associate Degree, 2010-2011
İNTERNET PROGRAMCILIĞI-I, Associate Degree, 2010-2011
MESLEKİ YABANCI DİL-I, Associate Degree, 2010-2011
PROGRAMLAMA TEMELLERİ, Associate Degree, 2010-2011
NESNE TABANLI PROGRAMLAMA-I, Associate Degree, 2010-2011
MESLEKİ YABANCI DİL-II, Associate Degree, 2010-2011
İNTERNET PROGRAMCILIĞI-I, Associate Degree, 2009-2010
MESLEKİ YABANCI DİL-I, Associate Degree, 2009-2010
PROGRAMLAMA TEMELLERİ, Associate Degree, 2009-2010
MESLEKİ YABANCI DİL-II, Associate Degree, 2009-2010
MESLEKİ YABANCI DİL-I, Associate Degree, 2009-2010
DELPHİ PROGRAMLAMA-I, Associate Degree, 2009-2010
MESLEKİ YABANCI DİL-II, Associate Degree, 2008-2009
MESLEKİ YABANCI DİL-I, Associate Degree, 2008-2009
DELPHİ PROGRAMLAMA-I, Associate Degree, 2008-2009
MESLEKİ YABANCI DİL-I, Associate Degree, 2008-2009
MESLEKİ YABANCI DİL-II, Associate Degree, 2007-2008
PROGRAMLAMA TEMELLERİ, Associate Degree, 2007-2008
MESLEKİ YABANCI DİL-I, Associate Degree, 2007-2008
MESLEKİ YABANCI DİL-I, Associate Degree, 2007-2008
DELPHİ PROGRAMLAMA-I, Associate Degree, 2007-2008
MESLEKİ YABANCI DİL-I, Associate Degree, 2006-2007
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PROGRAMLAMA TEMELLERİ, Associate Degree, 2006-2007
MESLEKİ YABANCI DİL-II, Associate Degree, 2006-2007
DELPHİ PROGRAMLAMA-I, Associate Degree, 2006-2007
PROGRAMLAMA TEMELLERİ, Associate Degree, 2005-2006
MESLEKİ YABANCI DİL-I, Associate Degree, 2005-2006
MESLEKİ YABANCI DİL-I, Associate Degree, 2005-2006
DELPHİ PROGRAMLAMA-I, Associate Degree, 2005-2006
MESLEKİ YABANCI DİL-II, Associate Degree, 2005-2006
MESLEKİ YABANCI DİL-II, Associate Degree, 2004-2005
MESLEKİ YABANCI DİL-I, Associate Degree, 2004-2005
MESLEKİ YABANCI DİL-I, Associate Degree, 2004-2005
MESLEKİ YABANCI DİL-I, Associate Degree, 2003-2004
PROGRAMLAMA TEMELLERİ, Associate Degree, 2003-2004

MESLEKİ YABANCI DİL-I, Associate Degree, 2003-2004
MESLEKİ YABANCI DİL-II, Associate Degree, 2003-2004
PROGRAMLAMA TEMELLERİ, Associate Degree, 2002-2003
MESLEKİ YABANCI DİL-I, Associate Degree, 2002-2003
MESLEKİ YABANCI DİL-II, Associate Degree, 2002-2003
MESLEKİ YABANCI DİL-I, Associate Degree, 2002-2003
MESLEKİ YABANCI DİL-II, Associate Degree, 2001-2002
MESLEKİ YABANCI DİL-I, Associate Degree, 2001-2002
MESLEKİ YABANCI DİL-I, Associate Degree, 2001-2002
MESLEKİ YABANCI DİL-I, Associate Degree, 2000-2001
MESLEKİ YABANCI DİL-I, Associate Degree, 2000-2001
MESLEKİ YABANCI DİL-II, Associate Degree, 2000-2001
PROGRAMLAMA TEMELLERİ, Associate Degree, 2000-2001

Advising Theses

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
Yağmurlu N. M., Eşit Genişlikli (EW) Dalga Denklemine Trigonometrik B-Spline Kollokasyon Sonlu Eleman Yöntemiyle Nümerik Çözümleri, Postgraduate, A.SERCAN(Student), 2020
Yağmurlu N. M., 2-boyutlu lineer olmayan coupled burgers' denklemi için sonlu fark yaklaşımları, Postgraduate, A.GAGİR(Student), 2018
Uçar Y., Yağmurlu N. M., Operatör splitting B-spline kollokasyon yöntemi ile bazı kısmi türevli diferansiyel denklemlerin çözümleri, Doctorate, İ.ÇELİKKAYA(Student), 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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)
- II. **Numerical solutions of nonhomogeneous Rosenau type equations by quintic B-spline collocation method**
ÖZER S., YAĞMURLU N. M.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.45, no.9, pp.5545-5558, 2022 (SCI-Expanded)
- III. **A mixed method approach to the solitary wave, undular bore and boundary-forced solutions of the Regularized Long Wave equation**
BAŞHAN A., YAĞMURLU N. M.
COMPUTATIONAL & APPLIED MATHEMATICS, vol.41, no.4, 2022 (SCI-Expanded)
- IV. **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)
- V. **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)
- VI. **Operator time-splitting techniques combined with quintic B-spline collocation method for the**

- generalized Rosenau-KdV equation**
KUTLUAY S., Karta M., YAĞMURLU N. M.
NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, vol.35, no.6, pp.2221-2235, 2019 (SCI-Expanded)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **Double Exp-Function Method for Multisoliton Solutions of The Tzitzeica-Dodd-Bullough Equation**
ESEN A., YAĞMURLU N. M., TASBOZAN O.
ACTA MATHEMATICAE APPLICATAE SINICA-ENGLISH SERIES, vol.32, no.2, pp.461-468, 2016 (SCI-Expanded)
- XIV. **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)
- XV. **Approximate Analytical Solution to Time-Fractional Damped Burger and Cahn-Allen Equations**
ESEN A., YAĞMURLU N. M., TASBOZAN O.
APPLIED MATHEMATICS & INFORMATION SCIENCES, vol.7, no.5, pp.1951-1956, 2013 (SCI-Expanded)
- XVI. **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)
- XVII. **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)
- XVIII. **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. **A Robust Quintic Hermite Collocation Method for One-Dimensional Heat Conduction Equation**
KUTLUAY S., YAĞMURLU N. M., KARAKAŞ A. S.
Journal of mathematical sciences and modelling (Online), vol.7, no.2, pp.82-89, 2024 (Peer-Reviewed Journal)
- II. **An Application of Trigonometric Quintic B-Spline Collocation Method for Sawada-Kotera Equation**
KARABENLİ H., ESEN A., YAĞMURLU N. M.
Adiyaman Üniversitesi Fen Bilimleri Dergisi, vol.12, no.2, pp.269-282, 2022 (Peer-Reviewed Journal)
- III. **An Effective Numerical Approach Based on Cubic Hermite B-spline Collocation Method for Solving the 1D Heat Conduction Equation**
KUTLUAY S., YAĞMURLU N. M., Karakaş A. S.
New Trends in Mathematical Sciences, vol.10, no.4, pp.20-31, 2022 (Peer-Reviewed Journal)
- IV. **Numerical Simulation of Two Dimensional Coupled Burgers Equations by Rubin-Graves Type Linearization**
YAĞMURLU N. M., GAGİR A.
Mathematical Sciences and Applications E-Notes, vol.9, no.4, pp.158-169, 2021 (Peer-Reviewed Journal)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **Numerical Approximation of the Combined KdV-mKdV Equation via the Quintic B-Spline Differential Quadrature Method**
YAĞMURLU N. M., UÇAR Y., BAŞHAN A.
Adiyaman University Journal of Science, vol.9, no.2, pp.386-403, 2019 (Peer-Reviewed Journal)
- X. **A Lumped Galerkin finite element method for the generalized Hirota-Satsuma coupled KdV and coupled MKdV equation**
YAĞMURLU N. M., KARAAĞAÇ B., ESEN A.
Tbilisi Mathematical Journal, vol.12, no.3, pp.159-173, 2019 (ESCI)
- XI. **Exact solutions of nonlinear evolution equations using the extended modified $\text{Exp}(-\Omega(x))$ function method**
KARAAĞAÇ B., Kutluay S., Yagmurlu N. M., ESEN A.
TBILISI MATHEMATICAL JOURNAL, vol.12, no.3, pp.109-119, 2019 (ESCI)
- XII. **A Lumped Galerkin finite element method for the generalized Hirota-Satsuma coupled KdV and coupled MKdV equations**
YAĞMURLU N. M., Karaagac B., ESEN A.
TBILISI MATHEMATICAL JOURNAL, vol.12, no.3, pp.159-173, 2019 (ESCI)
- XIII. **A New Perspective on The Numerical Solution for Fractional Klein Gordon Equation**
Karaagac B., UÇAR Y., YAĞMURLU N. M., ESEN A.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISİ, vol.22, no.2, pp.443-451, 2019 (ESCI)
- XIV. **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)
- XV. **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)

- XVI. **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)
- XVII. **The Modified Bi-Quintic B-spline Base Functions: An Application to Diffusion Equation**
KUTLUAY S., YAĞMURLU N. M.
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- XVIII. **Numerical Solutions of the Modified Burgers' Equation by Finite Difference Methods**
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