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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, İnönü Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, Türkiye 1998 - 2003
Yüksek Lisans, İnönü Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, Türkiye 1995 - 1997
Lisans, İnönü Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, Türkiye 1990 - 1994

Yabancı Diller

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Araştırma Alanları

Matematik, Diferansiyel denklemler, Sayısal Analiz, Temel Bilimler

Akademik Unvanlar / Görevler

Prof.Dr., İnönü Üniversitesi, Fen-Edebiyat Fakültesi, Matematik, 2013 - Devam Ediyor
Doç.Dr., İnönü Üniversitesi, Fen-Edebiyat Fakültesi, Matematik, 2007 - 2013
Araştırma Görevlisi Dr., İnönü Üniversitesi, Fen-Edebiyat Fakültesi, Matematik, 2003 - 2007
Araştırma Görevlisi, İnönü Üniversitesi, Fen-Edebiyat Fakültesi, Matematik, 1995 - 2003

Akademik İdari Deneyim

İnönü Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2012 - Devam Ediyor
İnönü Üniversitesi, Fen Bilimleri Enstitüsü, 2014 - 2016
İnönü Üniversitesi, Fen Bilimleri Enstitüsü, 2008 - 2014

Verdiği Dersler

Mesleki Matematik, Ön Lisans, 2013-2014

Kısmi Diferansiyel Denklemler, Lisans, 2013-2014
Nümerik Analiz, Lisans, 2013-2014
Uygulamalı Matematik, Lisans, 2013-2014
Diferansitel Denklemler, Lisans, 2013-2014
Kısmi Diferansiyel Denklemler ve Uygulamaları, Lisans Yandal, 2013-2014

Yönetilen Tezler

AKSAN E. N., ESEN A., Hareketli sınır değer problemlerinin nümerik çözümleri, Doktora, H.KARABENLİ(Öğrenci), 2016
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ESEN A., Bazı nonlineer kısmi diferensiyel denklemlerin tam çözümleri üzerine, Yüksek Lisans, G.ESRA(Öğrenci), 2009

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

I. **A new numerical approach to Gardner Kawahara equation in magneto-acoustic waves in plasma physics**
Ucar Y., Yagmurlu N. M., Esen A., Karaagac B.
INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS, cilt.95, sa.6, ss.979-991, 2023 (SCI-Expanded)

II. **Numerical approximation to the MEW equation for the single solitary wave and different types of interactions of the solitary waves**
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JOURNAL OF DIFFERENCE EQUATIONS AND APPLICATIONS, sa.28, ss.1-21, 2022 (SCI-Expanded)

III. ** Higher order Haar wavelet method integrated with strang splitting for solving regularized long wave equation **
BULUT F., Oruc O., ESEN A.
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IV. **An application of Chebyshev wavelet method for the nonlinear time fractional Schrodinger equation**
Esra Kose G., Oruc O., ESEN A.
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V. **Highly accurate numerical scheme based on polynomial scaling functions for equal width equation**
Oruc O., ESEN A., BULUT F.
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VI. **A new perspective for the numerical solution of the Modified Equal Width wave equation**
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MATHEMATICAL METHODS IN THE APPLIED SCIENCES, cilt.44, sa.11, ss.8925-8939, 2021 (SCI-Expanded)

VII. **Numerical solutions of Boussinesq equation using Galerkin finite element method**
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NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, cilt.37, sa.2, ss.1612-1630, 2021 (SCI-Expanded)

VIII. **Single soliton and double soliton solutions of the quadratic-nonlinear Korteweg-de Vries equation for small and long-times**
BAŞHAN A., ESEN A.

NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, cilt.37, sa.2, ss.1561-1582, 2021 (SCI-Expanded)

IX. **Numerical investigation of dynamic Euler-Bernoulli equation via 3-Scale Haar wavelet collocation method**
Oruc O., ESEN A., BULUT F.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, cilt.50, sa.1, ss.159-179, 2021 (SCI-Expanded)

X. **Finite difference method combined with differential quadrature method for numerical computation of the modified equal width wave equation**
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Oruc O., ESEN A., BULUT F.
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XXVII. **Double Exp-Function Method for Multisoliton Solutions of The Tzitzeica-Dodd-Bullough Equation**
ESEN A., YAĞMURLU N. M., TASBOZAN O.
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XXVIII. **Numerical Solution of Time Fractional Burgers Equation by Cubic B-spline Finite Elements**
ESEN A., Tasbozan O.
MEDITERRANEAN JOURNAL OF MATHEMATICS, cilt.13, sa.3, ss.1325-1337, 2016 (SCI-Expanded)

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EUROPEAN PHYSICAL JOURNAL PLUS, cilt.131, sa.4, 2016 (SCI-Expanded)

XXX. **A new approach on numerical solutions of the Improved Boussinesq type equation using quadratic B-spline Galerkin finite element method**
UÇAR Y., KARAAGAC B., ESEN A.
APPLIED MATHEMATICS AND COMPUTATION, cilt.270, ss.148-155, 2015 (SCI-Expanded)

XXXI. **Numerical Solutions of Fractional System of Partial Differential Equations By Haar Wavelets**
BULUT F., ORUC Ö., ESEN A.
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XXXVIII. **Application of the Exp-function method to the two dimensional sine-Gordon equation**
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XL. **New Solitonary Solutions for the Generalized RLW Equation by He's Exp-function Method**
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XLI. **Solitary wave solutions of the modified equal width wave equation**
ESEN A., KUTLUAY S.
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XLII. **A lumped Galerkin method for the numerical solution of the modified equal-width wave equation using quadratic B-splines**
Esen A.
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XLIII. **A heat balance integral solution of the thermistor problem with a modified electrical conductivity**
Kutluay S., WOOD A., Esen A.
APPLIED MATHEMATICAL MODELLING, cilt.30, sa.4, ss.386-394, 2006 (SCI-Expanded)

XLIV. **Application of a lumped Galerkin method to the regularized long wave equation**
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XLV. **A linearized implicit finite-difference method for solving the equal width wave equation**
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XLVI. **A finite difference solution of the regularized long-wave equation**
Kutluay S., Esen A.
MATHEMATICAL PROBLEMS IN ENGINEERING, cilt.2006, 2006 (SCI-Expanded)

XLVII. **A numerical solution of the equal width wave equation by a lumped Galerkin method**
Esen A.
APPLIED MATHEMATICS AND COMPUTATION, cilt.168, sa.1, ss.270-282, 2005 (SCI-Expanded)

XLVIII. **Numerical solution of Burgers' equation by quadratic B-spline finite elements**
OZIS T., Esen A., Kutluay S.
APPLIED MATHEMATICS AND COMPUTATION, cilt.165, sa.1, ss.237-249, 2005 (SCI-Expanded)

XLIX. **Finite element approaches to the PTC thermistor problem**
Kutluay S., Esen A.
APPLIED MATHEMATICS AND COMPUTATION, cilt.163, sa.1, ss.147-162, 2005 (SCI-Expanded)

L. **Numerical solutions of the thermistor problem by spline finite elements**
Kutluay S., Esen A.
APPLIED MATHEMATICS AND COMPUTATION, cilt.162, sa.1, ss.475-489, 2005 (SCI-Expanded)

LI. **Finite element solution of the thermistor problem with a ramp electrical conductivity**
Kutluay S., ESEN A.
APPLIED MATHEMATICS AND COMPUTATION, cilt.161, sa.3, ss.897-913, 2005 (SCI-Expanded)

LII. **A lumped Galerkin method for solving the Burgers equation**
Kutluay S., Esen A.
INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, cilt.81, sa.11, ss.1433-1444, 2004 (SCI-Expanded)

LIII. **A B-spline finite element method for the thermistor problem with the modified electrical**

conductivity
Kutluay S., Esen A.
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LIV. **A linearized numerical scheme for Burgers-like equations**
Kutluay S., Esen A.
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LV. **Numerical solutions of the Burgers' equation by the least-squares quadratic B-spline finite element method**
Kutluay S., Esen A., Dag I.
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LVI. **A variational approximation to the problem of the deflection of a bar**
Aksan E. N., Ozdes A., Esen A.
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LVII. **An isotherm migration formulation for one-phase Stefan problem with a time dependent Neumann condition**
Kutluay S., Esen A.
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Diğer Dergilerde Yayınlanan Makaleler

I. **An Application of Trigonometric Quintic B-Spline Collocation Method for Sawada-Kotera Equation**
KARABENLİ H., ESEN A., YAĞMURLU N. M.
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II. **Numerical Investigation of Modified Fornberg Whitham Equation**
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IV. **Collocation Method for the KdV-Burgers-Kuramoto Equation with Caputo Fractional Derivative**
YAĞMURLU N. M., UÇAR Y., ESEN A.
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V. **A Lumped Galerkin finite element method for the generalized Hirota-Satsuma coupled KdV and coupled MKdV equation**
YAĞMURLU N. M., KARAAĞAÇ B., ESEN A.
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VI. **Exact solutions of nonlinear evolution equations using the extended modified Exp(-Omega(xi)) function method**
KARAAĞAÇ B., Kutluay S., Yagmurlu N. M., ESEN A.
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VIII. **Genelleştirilmiş hiperbolik Burgers denkleminin yeni mixed-dark soliton çözümleri**
DÜŞÜNCELİ F., BAŞKONUŞ H. M., ESEN A., BULUT H.

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IX. **A New Perspective on The Numerical Solution for Fractional Klein Gordon Equation**
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X. **NUMERICAL SOLUTIONS FOR THE FOURTH ORDER EXTENDED FISHER-KOLMOGOROV EQUATION WITH HIGH ACCURACY BY DIFFERENTIAL QUADRATURE METHOD**
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XI. **Quadratic B-Spline Galerkin Method for Numerical Solutions of Fractional Telegraph Equations**
TAŞBOZAN O., ESEN A.
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XII. **A numerical treatment based on Haar wavelets for coupled KdV equation**
Oruç Ö., Bulut F., Esen A.
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