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International Researcher IDs

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Education Information

Doctorate, Ege University, Fen Bilimleri, Matematik, Turkey 1997 - 2002

Postgraduate, Balikesir University, Fen Blilmleri, Matematik, Turkey 1992 - 1995

Undergraduate, Uludağ Üniversitesi, Eğitim Fakültesi, Matematik, Turkey 1988 - 1992

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Üstel matris fonksiyonları yardımıyla Amerikan opsiyon probleminin çizgiler yöntemi ile çözümü, Ege Üniversitesi, Fen Bilimleri Enstitüsü, Matematik (Yl), 2002

Research Areas

Mathematics, Numerical Analysis, Natural Sciences

Academic and Administrative Experience

Hacettepe Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2016 - 2017

Hacettepe Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2013 - 2014

Advising Theses

KÖROĞLU C., Solution of differential equations using nonstandard finite difference methods, Postgraduate, E.KARA(Student), 2015

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Exact and nonstandard finite difference schemes for the Burgers equation B(2,2)**
KÖROĞLU C., AYDIN A.
TURKISH JOURNAL OF MATHEMATICS, vol.45, no.2, pp.647-660, 2021 (SCI-Expanded)
- II. **A nonstandard numerical method for the modified KdV equation**
AYDIN A., KÖROĞLU C.
PRAMANA-JOURNAL OF PHYSICS, vol.89, no.5, 2017 (SCI-Expanded)
- III. **A Novel Condition to the Harmonic of the Velocity Vector Field of a Curve in R-n**
ALTIN A., KÖROĞLU C.
DISCRETE DYNAMICS IN NATURE AND SOCIETY, 2017 (SCI-Expanded)
- IV. **An Unconventional Finite Difference Scheme for Modified Korteweg-de Vries Equation**
KÖROĞLU C., AYDIN A.
ADVANCES IN MATHEMATICAL PHYSICS, vol.2017, 2017 (SCI-Expanded)
- V. **NUMERICAL SOLUTION OF A BOUNDARY VALUE PROBLEM FOR A SECOND ORDER FUZZY DIFFERENTIAL EQUATION**
Fatullayev A. G., Can E., KÖROĞLU C.
TWMS JOURNAL OF PURE AND APPLIED MATHEMATICS, vol.4, no.2, pp.169-176, 2013 (SCI-Expanded)
- VI. **Numerical Solving of a Boundary Value Problem for Fuzzy Differential Equations**
Fatullayev A. G., KÖROĞLU C.
CMES-COMPUTER MODELING IN ENGINEERING & SCIENCES, vol.86, no.1, pp.39-52, 2012 (SCI-Expanded)
- VII. **Applications of Parameter-Expanding Method to Nonlinear Oscillators in which the Restoring Force is Inversely Proportional to the Dependent Variable or in Form of Rational Function of Dependent Variable**
KÖROĞLU C., Ozis T.
CMES-COMPUTER MODELING IN ENGINEERING & SCIENCES, vol.75, pp.223-234, 2011 (SCI-Expanded)
- VIII. **A novel traveling wave solution for Ostrovsky equation using Exp-function method**
KÖROĞLU C., Ozis T.
COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.58, pp.2142-2146, 2009 (SCI-Expanded)
- IX. **A novel approach for solving the Fisher equation using Exp-function method**
Ozis T., KÖROĞLU C.
PHYSICS LETTERS A, vol.372, no.21, pp.3836-3840, 2008 (SCI-Expanded)

Articles Published in Other Journals

- I. **Special Solutions in Terms of Hyperbolic Functions for nonlinear Dispersive K m n Equations**
KÖROĞLU C.
Applied Mathematical Sciences, 2014 (Peer-Reviewed Journal)
- II. **Exp Function method for Nonlinear BBM Benjamin Bona and Mahony Equation**
KÖROĞLU C.
International Journal of Mathematical Sciences and Engineering Applications, 2014 (Peer-Reviewed Journal)
- III. **Piecewise cubic approximation for data**
CAN E., Sabri Ali Ü., KÖROĞLU C.
American Journal of Applied Mathematics, 2013 (Peer-Reviewed Journal)
- IV. **OPTION PRICING WITH PADE APPROXIMATIONS**
KÖROĞLU C.
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.61, no.2, pp.45-50, 2012 (ESCI)
- V. **Computing the approximate frequency for nonlinear oscillators with discontinuities by He s bookkeeping parameter method**
KÖROĞLU C., ÖZİŞ T.
Journal of Concrete and Applicable Mathematics, 2011 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Genelleştirilmiş KdV-Burgers Denklemi için Tam ve Standard Olmayan Sonlu Fark Tasarıları(Exact and Nonstandard Finite Difference Schemes for the Generalized KdV-Burgers Equation)**
KÖROĞLU C., AYDIN A.
Teorik ve Uygulamalı Matematikteki Son İlerlemeler Üzerine Uluslararası Konferans(INTERNATIONAL CONFERENCE on RECENT ADVANCES in PURE AND APPLIED MATHEMATICS (ICRAPAM2018), Trabzon, Turkey, 23 - 27 July 2018
- II. **Modifiye Korteweg de Vries denklemi için standart olmayan bir sonlu fark tasarısı**
KÖROĞLU C., AYDIN A.
30.Uluslararası Matematik Sempozyumu, Turkey, 6 - 09 September 2017

Metrics

Publication: 16

Citation (WoS): 65

Citation (Scopus): 84

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