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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, University of Newcastle Upon Tyne, Fen Bilimler Enstitüsü, Bilgisayar Bilimleri Bölümü, İngiltere 1992 - 1995

Yüksek Lisans, Fırat Üniversitesi, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), Türkiye 1988 - 1990

Lisans, Van Yüzüncü Yıl Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, Türkiye 1984 - 1988

Yabancı Diller

İngilizce, C1 İleri

Yaptığı Tezler

Doktora, Parallel Algorithms for Linear Algebra on a Shared Memory Multiprocessor, University of Newcastle Upon Tyne, Fen Bilimler Enstitüsü, Bilgisayar Bilimleri Bölümü, 1995

Yüksek Lisans, Lineer olmayan differensiyel denklemler, Fırat Üniversitesi, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), 1990

Araştırma Alanları

Bilgisayar Bilimleri, Temel Bilimler

Akademik Unvanlar / Görevler

Prof. Dr., İstanbul Ticaret Üniversitesi, İnsan ve Toplum Bilimleri Fakültesi, Matematik Bölümü, 2011 - Devam Ediyor

Prof. Dr., Fırat Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2006 - 2011

Doç. Dr., Fırat Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2000 - 2006

Yrd. Doç. Dr., Fırat Üniversitesi, Fen Fakültesi, Matematik Bölümü, 1995 - 2000

Araştırma Görevlisi, University of Newcastle Upon Tyne, FEN, BİLGİSAYAR BİLİMLERİ BÖLÜMÜ, 1991 - 1995

Akademik İdari Deneyim

Bölüm Başkanı, İstanbul Ticaret Üniversitesi, İnsan Ve Toplum Bilimleri Fakültesi, Matematik Bölümü, 2022 - Devam Ediyor

Enstitü Müdürü, İstanbul Ticaret Üniversitesi, Fen Bilimleri Enstitüsü, 2022 - 2024

Enstitü Müdürü, İstanbul Ticaret Üniversitesi, Fen Bilimleri Enstitüsü, 2014 - 2017

Bölüm Başkanı, İstanbul Ticaret Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2011 - 2014

Rektör Yardımcısı, Ardahan Üniversitesi, 2008 - 2010

Dekan, Ardahan Üniversitesi, Mühendislik Fakültesi, 2008 - 2010

Bölüm Başkan Yardımcısı, Fırat Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2002 - 2005

Verdiği Dersler

BİTİRME PROJESİ, Lisans, 2023 - 2024

Diferansiyel Denklemler 2, Lisans, 2023 - 2024

Business Mathematics 2, Lisans, 2023 - 2024

Yapay Sinir Ağları, Lisans, 2023 - 2024

Bilgisayar Programlama 2, Lisans, 2023 - 2024

Diferansiyel Denklemler I , Lisans, 2023 - 2024, 2022 - 2023

Nümerik Analiz 1, Lisans, 2023 - 2024

Kariyer Planlama, Lisans, 2023 - 2024

Bilgisayar Programlama I, Lisans, 2023 - 2024

Business Mathematics 1, Lisans, 2023 - 2024

Diferansiyel Denklemler II, Lisans, 2022 - 2023, 2012 - 2013, 2011 - 2012

KISMİ DİFERANSİYEL DENKLEMLER, Lisans, 2021 - 2022

Lineer Cebir 1 ve 2, Lisans, 2021 - 2022

Mathematics 1 and 2, Lisans, 2021 - 2022

Matematik 1 ve 2, Lisans, 2021 - 2022

ENGINEERING MATHEMATICS I and II, Lisans, 2020 - 2021, 2019 - 2020, 2018 - 2019

Mathematical Analysis I ve II, Lisans, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2013 - 2014, 2012 - 2013, 2011 - 2012

Mühendislik Matematiği I ve II, Lisans, 2020 - 2021

Lineer Cebir 1, Lisans, 2019 - 2020

Random Process, Yüksek Lisans, 2017 - 2018

Rastgele Süreç, Lisans, 2017 - 2018

ENGINEERING MATHEMATICS II, Lisans, 2016 - 2017

ENGINEERING MATHEMATICS I, Lisans, 2016 - 2017

MATHEMATICS II, Lisans, 2016 - 2017

Kısmi Diferansiyel Denklemler İçin Sonlu Elemanlar Yöntemi, Doktora, 2016 - 2017

Mathematical Analysis I, Lisans, 2016 - 2017

Mathematical Analysis II, Lisans, 2016 - 2017

Mühendislikte Sonlu Elemanlar Yöntemi, Doktora, 2016 - 2017

SEMINAR , Yüksek Lisans, 2016 - 2017

MATHEMATICS I, Lisans, 2016 - 2017

Nümerik Analiz, Lisans, 2013 - 2014, 2012 - 2013, 2011 - 2012

Differential Equation , Lisans, 2012 - 2013

Nümerik Analiz, Lisans, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003, 2000 - 2001

Lineer Olmayan Diferansiyel Denklemler, Doktora, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003,

2000 - 2001

Yönetilen Tezler

- DOĞAN K., Başlangıç ve sınır koşullarına sahip bazı lineer olmayan kısmi diferansiyel denklemler için simetri analizi, Doktora, G.İSKENDEROĞLU(Öğrenci), 2020
- DOĞAN K., İntegrallenebilir denklemler için soliton çözümler ve uygulamaları, Yüksek Lisans, B.KUTLU(Öğrenci), 2015
- DOĞAN K., Bazı lineer olmayan kısmi diferansiyel denklemlerin özel dönüşümler yardımıyla dalga çözümleri ve bu çözümlerin analizleri, Doktora, S.DURAN(Öğrenci), 2012
- DOĞAN K., Lineer olmayan kısmi diferansiyel denklemlerin hareket eden dalga çözümleri için bazı metotlar ve çözümlerin sayısal analizleri, Doktora, B.KILIÇ(Öğrenci), 2012
- DOĞAN K., Bazı özel lineer olmayan diferansiyel denklemlerin çözümlerinin elde edilmesi ve bu çözümlerin karşılaştırılması, Doktora, A.YOKUŞ(Öğrenci), 2011
- DOĞAN K., Bazı lineer olmayan kısmi diferansiyel denklemlerin periyodik dalga çözümleri, Doktora, Y.UĞURLU(Öğrenci), 2010
- DOĞAN K., Lineer ve lineer olmayan diferansiyel denklemlerin sayısal çözümlerinin elde edilmesi ve elde edilen sonuçların irdelenmesi, Yüksek Lisans, Z.SARIATEŞ(Öğrenci), 2010
- DOĞAN K., Diferansiyel denklemlerin çözümlerinin asimptotik davranışı ve kararlılığı, Yüksek Lisans, S.DURAN(Öğrenci), 2006
- DOĞAN K., Difüzyon denklemlerin çözümlerinin patlaması, Yüksek Lisans, Y.UĞURLU(Öğrenci), 2005
- DOĞAN K., Doğrusal olmayan parabolik veya hiperbolik diferansiyel denklemlerde global çözümlerin yokluğu (blow up), Doktora, N.POLAT(Öğrenci), 2005
- DOĞAN K., Kısmi diferansiyel denklemler için bazı yaklaşım metodları ve uygulamaları, Doktora, İ.ENAM(Öğrenci), 2004
- DOĞAN K., Kısmi diferansiyel denklemlerin çözümlerinin azalması ve kararlılığı, Yüksek Lisans, T.BAKI(Öğrenci), 2003
- DOĞAN K., Başlangıç ve sınır değer problemlerinin seriler yardımı ile çözümleri, Yüksek Lisans, S.ÇİÇEK(Öğrenci), 2002
- DOĞAN K., Burgers denkleminin sayısal çözümlerinin karşılaştırılması üzerine bir çalışma, Yüksek Lisans, A.YOKUŞ(Öğrenci), 2002
- DOĞAN K., Lineer cebirsel denklem sistemlerinin sayısal çözümleri ve bu çözümlerin sayısal irdelenmesi, Yüksek Lisans, İ.ENAM(Öğrenci), 1999
- DOĞAN K., Kısmi diferansiyel denklemlerin analitik çözümleri ve sayısal çözümlerinin karşılaştırılması, Yüksek Lisans, T.TUTAK(Öğrenci), 1999

Jüri Üyelikleri

- Doçentlik Sınavı, Doçentlik Sınavı, GEBZE TEKNİK ÜNİVERSİTESİ, Mayıs, 2024
- Akademik Kadroya Atama-Yardımcı Doçentlik, Akademik Kadroya Atama-Yardımcı Doçentlik, Yıldız Teknik Üniversitesi, Ocak, 2024
- Doçentlik Sınavı, Doçentlik Sınavı, Eskişehir Osmangazi Üniversitesi, Aralık, 2023
- Doçentlik Sınavı, Doçentlik Sınavı, GAZİANTEP ÜNİVERSİTESİ, Ekim, 2023
- Doçentlik Sınavı, Doçentlik Sınavı, BAĞÇESEHİR ÜNİVERSİTESİ, Ekim, 2023

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- An expansion method for generating travelling wave solutions for the $(2 + 1)$ -dimensional Bogoyavlensky-Konopelchenko equation with variable coefficients**
Yokuş A., Duran S., KAYA D.
Chaos, Solitons and Fractals, cilt.178, 2024 (SCI-Expanded)
- Application of some nonclassical methods for p-defocusing complex Klein-Gordon equation**

- Yokus A., İSKENDEROĞLU G., KAYA D.
Optical and Quantum Electronics, cilt.55, sa.5, 2023 (SCI-Expanded)
- III. **Chirped self-similar pulses and envelope solutions for a nonlinear Schrödinger's in optical fibers using Lie group method**
İSKENDEROĞLU G., KAYA D.
Chaos, Solitons and Fractals, cilt.162, 2022 (SCI-Expanded)
- IV. **Refraction simulation of internal solitary waves for the fractional Benjamin-Ono equation in fluid dynamics**
Duran S., Yokuş A., Durur H., KAYA D.
Modern Physics Letters B, cilt.35, sa.26, 2021 (SCI-Expanded)
- V. **Breaking analysis of solitary waves for the shallow water wave system in fluid dynamics**
Duran S., KAYA D.
European Physical Journal Plus, cilt.136, sa.9, 2021 (SCI-Expanded)
- VI. **Comparison exact and numerical simulation of the traveling wave solution in nonlinear dynamics**
Yokus A., KAYA D.
International Journal of Modern Physics B, cilt.34, sa.29, 2020 (SCI-Expanded)
- VII. **Role of Gilson–Pickering equation for the different types of soliton solutions: a nonlinear analysis**
Yokuş A., Durur H., Abro K. A., KAYA D.
European Physical Journal Plus, cilt.135, sa.8, 2020 (SCI-Expanded)
- VIII. **Symmetry analysis of initial and boundary value problems for fractional differential equations in Caputo sense**
İSKENDEROĞLU G., KAYA D.
Chaos, Solitons and Fractals, cilt.134, 2020 (SCI-Expanded)
- IX. **Lie group analysis for initial and boundary value problem of time-fractional nonlinear generalized KdV partial differential equation**
KAYA D., İSKENDEROĞLU G.
Turkish Journal of Mathematics, cilt.43, sa.3, ss.1263-1275, 2019 (SCI-Expanded)
- X. **Solutions of the fractional combined KdV–mKdV equation with collocation method using radial basis function and their geometrical obstructions**
KAYA D., Gülbahar S., Yokuş A., Gülbahar M.
Advances in Difference Equations, cilt.2018, sa.1, 2018 (SCI-Expanded)
- XI. **Numerical solutions of the Fractional Kdv-Burgers-Kuramoto equation**
KAYA D., Gulbahar S., Yukus A.
Thermal Science, cilt.22, 2018 (SCI-Expanded)
- XII. **Comparison of three semi-analytical methods for solving (1+1)-dimensional dispersive long wave equations**
Ugurlu Y., KAYA D., Inan I. E.
Computers and Mathematics with Applications, cilt.61, sa.5, ss.1278-1290, 2011 (SCI-Expanded)
- XIII. **Reply to Comment on 'Exact solutions to the various nonlinear evolution equations'**
KAYA D., Inan I. E.
Physica Scripta, cilt.83, sa.1, 2011 (SCI-Expanded)
- XIV. **Auto-Bäcklund transformation and similarity reductions for coupled Burger's equation**
Inan I. E., KAYA D., Ugurlu Y.
Applied Mathematics and Computation, cilt.216, sa.9, ss.2507-2511, 2010 (SCI-Expanded)
- XV. **Exact solutions to the various nonlinear evolution equations**
KAYA D., Inan I. E.
Physica Scripta, cilt.79, sa.4, 2009 (SCI-Expanded)
- XVI. **Application of new triangular functions to nonlinear partial differential equations**
Abdel-Salam E. A., KAYA D.
Zeitschrift fur Naturforschung - Section A Journal of Physical Sciences, cilt.64, sa.1-2, ss.1-7, 2009 (SCI-Expanded)
- XVII. **Existence, asymptotic behaviour, and blow up of solutions for a class of nonlinear wave equations**

with dissipative and dispersive terms

Polat N., KAYA D.

Zeitschrift fur Naturforschung - Section A Journal of Physical Sciences, cilt.64, sa.5-6, ss.315-326, 2009 (SCI-Expanded)

- XVIII. **Solutions of the Cahn-Hilliard equation**
Ugurlu Y., KAYA D.
Computers and Mathematics with Applications, cilt.56, sa.12, ss.3038-3045, 2008 (SCI-Expanded)
- XIX. **Exact and numerical solutions of generalized Drinfeld-Sokolov equations**
Ugurlu Y., KAYA D.
Physics Letters, Section A: General, Atomic and Solid State Physics, cilt.372, sa.16, ss.2867-2873, 2008 (SCI-Expanded)
- XX. **Analytic method for solitary solutions of some partial differential equations**
Uğurlu Y., KAYA D.
Physics Letters, Section A: General, Atomic and Solid State Physics, cilt.370, sa.3-4, ss.251-259, 2007 (SCI-Expanded)
- XXI. **Exact solutions of some nonlinear partial differential equations**
Inan I. E., KAYA D.
Physica A: Statistical Mechanics and its Applications, cilt.381, sa.1-2, ss.104-115, 2007 (SCI-Expanded)
- XXII. **A numerical comparison of a Kawahara equation**
KAYA D., Al-Khaled K.
Physics Letters, Section A: General, Atomic and Solid State Physics, cilt.363, sa.5-6, ss.433-439, 2007 (SCI-Expanded)
- XXIII. **A analytic and numerical solution to a modified Kawahara equation and a convergence analysis of the method**
Polat N., KAYA D., Tutalar H. I.
Applied Mathematics and Computation, cilt.181, sa.1, ss.193-199, 2006 (SCI-Expanded)
- XXIV. **A analytic and numerical solution to a modified Kawahara equation and a convergence analysis of the method**
Polat N., KAYA D., Tutalar H. I.
Applied Mathematics and Computation, cilt.179, sa.2, ss.466-472, 2006 (SCI-Expanded)
- XXV. **Some exact solutions to the potential Kadomtsev-Petviashvili equation and to a system of shallow water wave equations**
Inan I. E., KAYA D.
Physics Letters, Section A: General, Atomic and Solid State Physics, cilt.355, sa.4-5, ss.314-318, 2006 (SCI-Expanded)
- XXVI. **A numerical solution and an exact explicit solution of the NLS equation**
El-Sayed S. M., KAYA D.
Applied Mathematics and Computation, cilt.172, sa.2 SPEC. ISS., ss.1315-1322, 2006 (SCI-Expanded)
- XXVII. **The exact and numerical solitary-wave solutions for generalized modified Boussinesq equation**
KAYA D.
Physics Letters, Section A: General, Atomic and Solid State Physics, cilt.348, sa.3-6, ss.244-250, 2006 (SCI-Expanded)
- XXVIII. **Blow up of solution for the generalized Boussinesq equation with damping term**
Polat N., KAYA D.
Zeitschrift fur Naturforschung - Section A Journal of Physical Sciences, cilt.61, sa.5-6, ss.235-238, 2006 (SCI-Expanded)
- XXIX. **A numerical implementation of the decomposition method for the Lienard equation**
KAYA D., El-Sayed S. M.
Applied Mathematics and Computation, cilt.171, sa.2, ss.1095-1103, 2005 (SCI-Expanded)
- XXX. **Parallel algorithms for reduction of a symmetric matrix to tridiagonal form on a shared memory multiprocessor**

- KAYA D.
Applied Mathematics and Computation, cilt.169, sa.2, ss.1045-1062, 2005 (SCI-Expanded)
- XXXI. **An application for a modified KdV equation by the decomposition method and finite element method**
Geyikli T., KAYA D.
Applied Mathematics and Computation, cilt.169, sa.2, ss.971-981, 2005 (SCI-Expanded)
- XXXII. **Comparison of the solutions obtained by B-spline FEM and ADM of KdV equation**
Geyikli T., KAYA D.
Applied Mathematics and Computation, cilt.169, sa.1, ss.146-156, 2005 (SCI-Expanded)
- XXXIII. **A numerical application of the decomposition method for the combined KdV-MKdV equation**
KAYA D., Inan I. E.
Applied Mathematics and Computation, cilt.168, sa.2, ss.915-926, 2005 (SCI-Expanded)
- XXXIV. **Exact and numerical traveling wave solutions of Whitham-Broer-Kaup equations**
El-Sayed S. M., KAYA D.
Applied Mathematics and Computation, cilt.167, sa.2, ss.1339-1349, 2005 (SCI-Expanded)
- XXXV. **An implementation of the ADM for generalized one-dimensional Klein-Gordon equation**
KAYA D.
Applied Mathematics and Computation, cilt.166, sa.2, ss.426-433, 2005 (SCI-Expanded)
- XXXVI. **On experimental results and explicit exact solutions for the generalized Boussinesq type equation**
KAYA D.
Applied Mathematics and Computation, cilt.165, sa.2, ss.303-311, 2005 (SCI-Expanded)
- XXXVII. **Parallel algorithms for reduction of a general matrix to upper Hessenberg form on a shared memory multiprocessor**
KAYA D., Wright K.
Applied Mathematics and Computation, cilt.165, sa.1, ss.195-212, 2005 (SCI-Expanded)
- XXXVIII. **A decomposition method for finding solitary and periodic solutions for a coupled higher-dimensional Burgers equations**
KAYA D., Yokus A.
Applied Mathematics and Computation, cilt.164, sa.3, ss.857-864, 2005 (SCI-Expanded)
- XXXIX. **The symmetric tridiagonal eigenproblem on a shared memory multiprocessor: Part II**
KAYA D.
Applied Mathematics and Computation, cilt.163, sa.1, ss.213-244, 2005 (SCI-Expanded)
- XL. **Parallel algorithms for LU decomposition on a shared memory multiprocessor**
KAYA D., Wright K.
Applied Mathematics and Computation, cilt.163, sa.1, ss.179-191, 2005 (SCI-Expanded)
- XLI. **Blow-up of solutions for the damped Boussinesq equation**
Polat N., KAYA D., Tutalar H. I.
Zeitschrift fur Naturforschung - Section A Journal of Physical Sciences, cilt.60, sa.7, ss.473-476, 2005 (SCI-Expanded)
- XLII. **A convergence analysis of the ADM and an application**
KAYA D., Inan I. E.
Applied Mathematics and Computation, cilt.161, sa.3, ss.1015-1025, 2005 (SCI-Expanded)
- XLIII. **An experience using different synchronisation mechanisms on a shared memory multiprocessors**
KAYA D.
Applied Mathematics and Computation, cilt.161, sa.3, ss.1027-1036, 2005 (SCI-Expanded)
- XLIV. **An application of the modified decomposition method for two dimensional sine-Gordon equation**
KAYA D.
Applied Mathematics and Computation, cilt.159, sa.1, ss.1-9, 2004 (SCI-Expanded)
- XLV. **An application of the decomposition method for the two-dimensional KdV-Burgers equation**
KAYA D.
Computers and Mathematics with Applications, cilt.48, sa.10-11, ss.1659-1665, 2004 (SCI-Expanded)
- XLVI. **On the numerical solution of the system of two-dimensional Burgers' equations by the**

decomposition method

El-Sayed S. M., KAYA D.

Applied Mathematics and Computation, cilt.158, sa.1, ss.101-109, 2004 (SCI-Expanded)

XLVII. Numerical comparison of methods for solving parabolic equations

Al-Khaled K., KAYA D., Noor M. A.

Applied Mathematics and Computation, cilt.157, sa.3, ss.735-743, 2004 (SCI-Expanded)

XLVIII. The decomposition method for solving (2 + 1)-dimensional Boussinesq equation and (3 + 1)-dimensional KP equation

El-Sayed S. M., KAYA D.

Applied Mathematics and Computation, cilt.157, sa.2, ss.523-534, 2004 (SCI-Expanded)

XLIX. An application of the ADM to seven-order Sawada-Kotara equations

El-Sayed S. M., KAYA D.

Applied Mathematics and Computation, cilt.157, sa.1, ss.93-101, 2004 (SCI-Expanded)

L. A numerical solution of the Klein-Gordon equation and convergence of the decomposition method

KAYA D., El-Sayed S. M.

Applied Mathematics and Computation, cilt.156, sa.2, ss.341-353, 2004 (SCI-Expanded)

LI. A reliable method for the numerical solution of the kinetics problems

KAYA D.

Applied Mathematics and Computation, cilt.156, sa.1, ss.261-270, 2004 (SCI-Expanded)

LII. The symmetric tridigonal eigenproblem on a shared memory multiprocessor: Part I

KAYA D.

Applied Mathematics and Computation, cilt.156, sa.1, ss.189-209, 2004 (SCI-Expanded)

LIII. Adomian's decomposition method applied to systems of nonlinear algebraic equations

KAYA D., El-Sayed S. M.

Applied Mathematics and Computation, cilt.154, sa.2, ss.487-493, 2004 (SCI-Expanded)

LIV. Series solution to the Pochhammer-Chree equation and comparison with exact solutions

Shawagfeh N., KAYA D.

Computers and Mathematics with Applications, cilt.47, sa.12, ss.1915-1920, 2004 (SCI-Expanded)

LV. Finite difference method for solving fourth-order obstacle problems

Al-Said E. A., Noor M. A., KAYA D., Al-Khaled K.

International Journal of Computer Mathematics, cilt.81, sa.6, ss.741-748, 2004 (SCI-Expanded)

LVI. Solitary-wave solutions for compound KdV-type and compound KdV-Burgers-type equations with nonlinear terms of any order

KAYA D.

Applied Mathematics and Computation, cilt.152, sa.3, ss.709-720, 2004 (SCI-Expanded)

LVII. A numerical simulation and explicit solutions of the generalized Burgers-Fisher equation

KAYA D., El-Sayed S. M.

Applied Mathematics and Computation, cilt.152, sa.2, ss.403-413, 2004 (SCI-Expanded)

LVIII. Exact and numerical soliton solutions of some nonlinear physical models

KAYA D.

Applied Mathematics and Computation, cilt.152, sa.2, ss.551-560, 2004 (SCI-Expanded)

LIX. An application of the decomposition method for the KdVB equation

KAYA D.

Applied Mathematics and Computation, cilt.152, sa.1, ss.279-288, 2004 (SCI-Expanded)

LX. Exact and numerical traveling wave solutions for nonlinear coupled equations using symbolic computation

KAYA D., Inan I. E.

Applied Mathematics and Computation, cilt.151, sa.3, ss.775-787, 2004 (SCI-Expanded)

LXI. Comparing numerical methods for Helmholtz equation model problem

El-Sayed S. M., KAYA D.

Applied Mathematics and Computation, cilt.150, sa.3, ss.763-773, 2004 (SCI-Expanded)

- LXII. **A numerical simulation of solitary-wave solutions of the generalized regularized long-wave equation**
KAYA D.
Applied Mathematics and Computation, cilt.149, sa.3, ss.833-841, 2004 (SCI-Expanded)
- LXIII. **Solitary wave solutions for a generalized Hirota-Satsuma coupled KdV equation**
KAYA D.
Applied Mathematics and Computation, cilt.147, sa.1, ss.69-78, 2004 (SCI-Expanded)
- LXIV. **Comparing numerical methods for the solutions of systems of ordinary differential equations**
Shawagfeh N., KAYA D.
Applied Mathematics Letters, cilt.17, sa.3, ss.323-328, 2004 (SCI-Expanded)
- LXV. **The decomposition method applied to solve high-order linear Volterra-Fredholm integro-differential equations**
El-Sayed S. M., KAYA D., Zarea S.
International Journal of Nonlinear Sciences and Numerical Simulation, cilt.5, sa.2, ss.105-112, 2004 (SCI-Expanded)
- LXVI. **Numerical soliton-like solutions of the potential Kadomtsev-Petviashvili equation by the decomposition method**
KAYA D., El-Sayed S. M.
Physics Letters, Section A: General, Atomic and Solid State Physics, cilt.320, sa.2-3, ss.192-199, 2003 (SCI-Expanded)
- LXVII. **A numerical method for solving Jaulent-Miodek equation**
KAYA D., El-Sayed S. M.
Physics Letters, Section A: General, Atomic and Solid State Physics, cilt.318, sa.4-5, ss.345-353, 2003 (SCI-Expanded)
- LXVIII. **A numerical solution of the sine-Gordon equation using the modified decomposition method**
KAYA D.
Applied Mathematics and Computation, cilt.143, sa.2-3, ss.309-317, 2003 (SCI-Expanded)
- LXIX. **An explicit and numerical solutions of some fifth-order KdV equation by decomposition method**
KAYA D.
Applied Mathematics and Computation, cilt.144, sa.2-3, ss.353-363, 2003 (SCI-Expanded)
- LXX. **On the solution of the coupled Schrödinger-KdV equation by the decomposition method**
KAYA D., El-Sayed S. M.
Physics Letters, Section A: General, Atomic and Solid State Physics, cilt.313, sa.1-2, ss.82-88, 2003 (SCI-Expanded)
- LXXI. **On a generalized fifth order KdV equations**
KAYA D., El-Sayed S. M.
Physics Letters, Section A: General, Atomic and Solid State Physics, cilt.310, sa.1, ss.44-51, 2003 (SCI-Expanded)
- LXXII. **An application of the decomposition method for the generalized KdV and RLW equations**
KAYA D., El-Sayed S. M.
Chaos, Solitons and Fractals, cilt.17, sa.5, ss.869-877, 2003 (SCI-Expanded)
- LXXIII. **A numerical comparison of partial solutions in the decomposition method for linear and nonlinear partial differential equations**
KAYA D., Yokus A.
Mathematics and Computers in Simulation, cilt.60, sa.6, ss.507-512, 2002 (SCI-Expanded)
- LXXIV. **An application for a generalized KdV equation by the decomposition method**
KAYA D., Aassila M.
Physics Letters, Section A: General, Atomic and Solid State Physics, cilt.299, sa.2-3, ss.201-206, 2002 (SCI-Expanded)
- LXXV. **The use of Adomian decomposition method for solving a specific nonlinear partial differential equations**
KAYA D.
Bulletin of the Belgian Mathematical Society - Simon Stevin, cilt.9, sa.3, ss.343-349, 2002 (SCI-Expanded)
- LXXVI. **Application of the decomposition method for second order wave equations**
KAYA D.

- International Journal of Computer Mathematics, cilt.75, sa.2, ss.235-245, 2000 (SCI-Expanded)
- LXXVII. **On Local Solutions of a Mildly Degenerate Hyperbolic Equation**
Aassila M., KAYA D.
Journal of Mathematical Analysis and Applications, cilt.238, sa.2, ss.418-428, 1999 (SCI-Expanded)
- LXXVIII. **On the solution of a Korteweg-de Vries like equation by the decomposition method**
KAYA D.
International Journal of Computer Mathematics, cilt.72, sa.4, ss.531-539, 1999 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Exploring the influence of layer and neuron configurations on Boussinesq equation solutions via a bilinear neural network framework**
Isah M. A., Yokus A., Kaya D.
NONLINEAR DYNAMICS, cilt.112, ss.13361-13377, 2024 (Scopus)
- II. **Lie symmetry analysis of Caputo time-fractional $K(m,n)$ model equations with variable coefficients**
İskenderoğlu G., Kaya D.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, cilt.42, sa.3, ss.885-899, 2024 (ESCI)
- III. **Numerical comparison of Caputo and Conformable derivatives of time fractional Burgers-Fisher equation**
Yokus A., Durur H., Kaya D., Ahmad H., Nofal T. A.
Results in Physics, cilt.25, 2021 (Scopus)
- IV. **Applications of the Sub Equation Method for the High Dimensional Nonlinear Evolution Equation**
DURAN S., KAYA D.
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, cilt.14, sa.3, ss.898-906, 2021 (Hakemli Dergi)
- V. **Modeling of dark solitons for nonlinear longitudinal wave equation in a magneto-electro-elastic circular rod**
Durur H., Yokuş A., Kaya D., Ahmad H.
Sound and Vibration, cilt.55, sa.3, ss.241-251, 2021 (ESCI)
- VI. **Düzenli Uzun Dalga Denkleminin Hiperbolik Tip Yürüyen Dalga Çözümleri**
H., YOKUŞ A., KAYA D.
Bilecik Şeyh Edebali Üniversitesi Fen Bilimleri Dergisi, cilt.7, sa.2, ss.815-824, 2020 (Hakemli Dergi)
- VII. **Symmetry Analysis and Conservation Laws of the Boundary Value Problems for Time-Fractional Generalized Burgers' Differential Equation**
ISKENDEROĞLU G., KAYA D.
Fundamental journal of mathematics and applications (Online), cilt.2, sa.2, ss.139-147, 2019 (Hakemli Dergi)
- VIII. **ON LIE GROUP ANALYSIS OF BOUNDARY VALUE PROBLEM WITH CAPUTO FRACTIONAL DERIVATIVE**
İskenderoğlu G., Kaya D.
Sigma Journal of Engineering and Natural Sciences, cilt.10, ss.369-376, 2019 (Scopus)
- IX. **New Wave Solutions for Nonlinear Differential Equations using an Extended Bernoulli Equation as a New Expansion Method**
DURAN S., KAYA D.
ITM, cilt.22, ss.1-5, 2018 (Hakemli Dergi)
- X. **Symmetry solution on fractional equation**
ISKANDAROVA G., KAYA D.
An International Journal of Optimization and Control: Theories & Applications (IJOCTA), cilt.7, sa.3, ss.255-259, 2017 (Hakemli Dergi)
- XI. **A review of the semi analytic numerical methods for higher order nonlinear partial equations**
KAYA D.
Contemporary Analysis and Applied Mathematics, cilt.3, sa.1, ss.133-152, 2015 (Hakemli Dergi)
- XII. **Applications of a new expansion method for finding wave solutions of nonlinear differential**

equations

Duran S., KAYA D.

World Applied Sciences Journal, cilt.18, sa.11, ss.1582-1592, 2012 (Scopus)

XIII. An application for the higher order modified KdV equation by decomposition method

KAYA D.

Communications in Nonlinear Science and Numerical Simulation, cilt.10, sa.6, ss.693-702, 2005 (Scopus)

XIV. Explicit solutions of generalized nonlinear Boussinesq equations

KAYA D.

Journal of Applied Mathematics, cilt.1, sa.1, ss.29-37, 2001 (Scopus)

Kitap & Kitap Bölümleri

I. Partial differential equations that lead to solitons

Kaya D.

Encyclopedia of Complexity and Systems Science Series, Mohamed Atef Helal, Editör, Springer Nature, New York, ss.193-201, 2022

II. Semi-analytical methods for solving the KdV and mKdV equations

Kaya D.

Encyclopedia of Complexity and Systems Science, Mohamed Atef Helal, Editör, Springer Nature, New York, ss.139-159, 2022

III. Comparison of Exact and Numerical Solutions for the Sharma–Tasso–Olver Equation

KAYA D., YOKUŞ A., DEMİROĞLU U.

Numerical Solutions of Realistic Nonlinear Phenomena, J. A. Tenreiro Machado, Dumitru Baleanu, Necati Ozdemir, Editör, Springer Nature Switzerland AG 2020, Cham, ss.53-65, 2020

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. Euler-Bernoulli beam equation: invariant equations and solutions

İSKENDEROĞLU G., KAYA D.

ICAAM 2022, Türkiye, 31 Ekim - 06 Kasım 2022

II. On Lie group analysis of boundary value problem with Caputo fractional derivative

İSKENDEROĞLU G., KAYA D.

ICOMAA 2019, Türkiye, 3 - 05 Mayıs 2019

III. An Application for Sharma-Tasso-Olver Equations by Using Auto-Bäcklund Transformation

KAYA D., YOKUŞ A., Demiroğlu U.

International Conference on Applied Mathematics in Engineering (ICAME) Balıkesir, Turkey, 27 - 29 Eylül 2018

IV. Symmetry Analysis and Conservation Laws of the Boundary Value Problems for Time-Fractional Generalized Burgers' Differential Equation

ISKANDAROVA G., KAYA D.

ICAA 2018, Türkiye, 11 - 14 Eylül 2018

V. An application for time-fractional K(m,m) model equations by symmetry method

ISKANDAROVA G., KAYA D.

ICAAM 2018, Kıbrıs (Kktc), 6 - 09 Eylül 2018

VI. An Implementation of Auto-Bäcklund Transformation

YOKUŞ A., KAYA D., Demiroğlu U.

International Conference on Applied Mathematics in Engineering (ICAME), 27 - 29 Eylül 2018

VII. Applications of a New Expansion Method for Finding Wave Solutions of Nonlinear Differential Equations

DURAN S., KAYA D.

International Conference on Applied Mathematics in Engineering (ICAME), Balıkesir, Türkiye, 27 - 29 Haziran 2018, ss.155

- VIII. **Lie Group Analysis and Galilean Group Analysis for Partial Differential Equations**
ISKANDAROVA G., KAYA D.
ICOMAA 2018, Türkiye, 11 - 13 Mayıs 2018
- IX. **A Study on Finding Exact Solutions for the System of Shallow Water Wave equation using Extended Bernoulli Sub-Equation method**
DURAN S., KAYA D.
3rd International Conference on Computational Mathematics and Engineering Sciences (CMES2018), Girne, Kıbrıs (Kktc), 4 - 06 Mayıs 2018, ss.311
- X. **Symmetry solution on fractional equation**
ISKANDAROVA G., KAYA D.
CMES-2017, Türkiye, 20 - 22 Mayıs 2017
- XI. **Group analysis method for time-fractional nonlinear generalized Burgers differential equation**
İSKENDEROĞLU G., KAYA D.
SDEA-III, Türkiye, 14 - 17 Ağustos 2017
- XII. **Finite Difference and Generalized Taylor Series Methods for Space and Time Fractional Burgers Equation**
YOKUŞ A., KAYA D.
International Conference on Advancements in Mathematical Sciences (AMS), 12 - 14 Mayıs 2016
- XIII. **A new approach for Painlevé analysis of the generalized Kawahara equation**
Kutlu B., KAYA D.
International Conference on Advancements in Mathematical Sciences, AMS 2015, Antalya, Türkiye, 5 - 07 Kasım 2015, cilt.1676
- XIV. **Soliton Solutions to Integrable Equations and Kawahara Equation**
YOKUŞ A., KAYA D.
3rd International Conference on "Applied Mathematics & Approximation Theory - AMAT 2015, 28 - 31 Mayıs 2015

Bilimsel Dergilerdeki Faaliyetler

İstanbul Ticaret Üniversitesi Fen Bilimleri Dergisi, Editörler Kurulu Üyesi, 2022 - Devam Ediyor

Bilimsel Hakemlikler

MODERN PHYSICS LETTERS B, SCI Kapsamındaki Dergi, Mayıs 2024

ABSTRACT AND APPLIED ANALYSIS, SCI Kapsamındaki Dergi, Şubat 2024

JOURNAL OF TAIBAH UNIVERSITY FOR SCIENCE, SCI Kapsamındaki Dergi, Şubat 2024

ADVANCES IN MATHEMATICAL PHYSICS, SCI Kapsamındaki Dergi, Ocak 2024

OPTICAL AND QUANTUM ELECTRONICS, SCI Kapsamındaki Dergi, Aralık 2023

INTERNATIONAL JOURNAL OF BIFURCATION AND CHAOS IN APPLIED SCIENCES AND ENGINEERING, SCI Kapsamındaki Dergi, Aralık 2023

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