

Doç.Dr. ÖMER ÜNSAL

Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Eskişehir Osmangazi Üniversitesi, Fen Bilimleri Enstitüsü, Matematik-Bilgisayar Bilimleri (Dr), Türkiye 2012 - 2016

Yüksek Lisans, Eskişehir Osmangazi Üniversitesi, Fen Bilimleri Enstitüsü, Matematik-Bilgisayar Bilimleri (Yl) (Tezli), Türkiye 2010 - 2012

Lisans, Anadolu Üniversitesi, İktisat Fakültesi, İktisat Bölümü, Türkiye 2008 - 2012

Lisans, Eskişehir Osmangazi Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, Türkiye 2006 - 2010

Yaptığı Tezler

Doktora, Lineer olmayan denklemlerin integrallenebilirliği, Eskişehir Osmangazi Üniversitesi, Fen Bilimleri Enstitüsü, Matematik-Bilgisayar Bilimleri (Dr), 2016

Yüksek Lisans, Diskrit oluşum denklemlerinin integrallenebilirliği, Eskişehir Osmangazi Üniversitesi, Fen Bilimleri Enstitüsü, Matematik-Bilgisayar Bilimleri (Yl) (Tezli), 2012

Araştırma Alanları

Temel Bilimler

Akademik Unvanlar / Görevler

Doç.Dr., Eskişehir Osmangazi Üniversitesi, Fen Fakültesi, Matematik-Bilgisayar Bölümü, 2021 - Devam Ediyor

Dr.Öğr.Üyesi, Eskişehir Osmangazi Üniversitesi, Fen Fakültesi, Matematik-Bilgisayar Bölümü, 2016 - 2021

Araştırma Görevlisi, Eskişehir Osmangazi Üniversitesi, Fen Fakültesi, Matematik-Bilgisayar Bölümü, 2010 - 2016

Verdiği Dersler

Oyun Teori, Lisans, 2017 - 2018

Diferensiyel Denklemler II, Lisans, 2017 - 2018

Diferensiyel Denklemler, Lisans, 2017 - 2018, 2016 - 2017

Biyomatematik, Lisans, 2017 - 2018

Fark Denklemleri I, Lisans, 2017 - 2018

Kısmi Türevli Diferensiyel Denklemlerin Sayısal Uygulamaları II, Lisans, 2017 - 2018, 2016 - 2017

Volterra-Fredholm İntegral Denklemleri, Yüksek Lisans, 2017 - 2018

Kompleks Analiz, Lisans, 2017 - 2018

İntegrallenebilirlik Teorisi, Doktora, 2017 - 2018

Diferensiyel Denklemlerin Kompleksiton Çözümleri, Doktora, 2017 - 2018
Matematik II, Lisans, 2017 - 2018
Diferensiyel Denklemler I, Lisans, 2017 - 2018
Genelleştirilmiş Bilineer Türevler Teorisi, Yüksek Lisans, 2017 - 2018
Matematik, Lisans, 2017 - 2018
Matematiksel Fizik, Lisans, 2017 - 2018
Genel Matematik II, Lisans, 2017 - 2018, 2016 - 2017
Analiz II, Lisans, 2016 - 2017

Yönetilen Tezler

ÜNSAL Ö., Lineer Olmayan Oluşum Denklemlerinin Dalga Çözümleri ve Analizleri, Yüksek Lisans, S.KARA(Öğrenci), 2020
ÜNSAL Ö., Lineer olmayan kısmi diferensiyel denklemlerin kompleksiton çözümleri, Yüksek Lisans, Z.SAKARTEPE(Öğrenci), 2020

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **An useful procedure for finding exact solutions to new form of $(2+1)$ -dimensional B-type Kadomtsev-Petviashvili (BKP) equation**
ÜNSAL Ö., Sakartepe Z.
EUROPEAN PHYSICAL JOURNAL PLUS, cilt.135, sa.8, 2020 (SCI-Expanded)
- II. **Complexiton solutions for $(3+1)$ dimensional KdV-type equation**
ÜNSAL Ö.
COMPUTERS & MATHEMATICS WITH APPLICATIONS, cilt.75, sa.7, ss.2466-2472, 2018 (SCI-Expanded)
- III. **Multiple-Wave Solutions to Generalized Bilinear Equations in Terms of Hyperbolic and Trigonometric Solutions**
ÜNSAL Ö., Ma W., Zhang Y.
INTERNATIONAL JOURNAL OF NONLINEAR SCIENCES AND NUMERICAL SIMULATION, cilt.18, sa.5, ss.395-401, 2017 (SCI-Expanded)
- IV. **Conservation laws and double reduction of $(2+1)$ dimensional Calogero-Bogoyavlenskii-Schiff equation**
SAN S., Akbulut A., ÜNSAL Ö., TAŞCAN F.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, cilt.40, sa.5, ss.1703-1710, 2017 (SCI-Expanded)
- V. **Complexiton solutions for two nonlinear partial differential equations via modification of simplified Hirota method**
ÜNSAL Ö., Bekir A., TAŞCAN F., ÖZER M. N.
WAVES IN RANDOM AND COMPLEX MEDIA, cilt.27, sa.1, ss.117-128, 2017 (SCI-Expanded)
- VI. **A novel kind of AKNS integrable couplings and their Hamiltonian structures**
Zhang Y., Ma W., ÜNSAL Ö.
TURKISH JOURNAL OF MATHEMATICS, cilt.41, sa.6, ss.1467-1476, 2017 (SCI-Expanded)
- VII. **Analytical approach for space-time fractional Klein-Gordon equation**
ÜNSAL Ö., GÜNER Ö., Bekir A.
OPTİK, cilt.135, ss.337-345, 2017 (SCI-Expanded)
- VIII. **Exact solutions of nonlinear Schrodinger equation by using symbolic computation**
Kaplan M., ÜNSAL Ö., Bekir A.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, cilt.39, sa.8, ss.2093-2099, 2016 (SCI-Expanded)
- IX. **Linear superposition principle of hyperbolic and trigonometric function solutions to generalized bilinear equations**
ÜNSAL Ö., Ma W.

COMPUTERS & MATHEMATICS WITH APPLICATIONS, cilt.71, sa.6, ss.1242-1247, 2016 (SCI-Expanded)

- X. **APPLICATIONS OF FRACTIONAL COMPLEX TRANSFORM AND (G'/G) -EXPANSION METHOD FOR TIME-FRACTIONAL DIFFERENTIAL EQUATIONS**
Bekir A., GÜNER Ö., ÜNSAL Ö., Mirzazadeh M.
JOURNAL OF APPLIED ANALYSIS AND COMPUTATION, cilt.6, sa.1, ss.131-144, 2016 (SCI-Expanded)
- XI. **Two reliable methods for solving the time fractional Clannish Random Walker's Parabolic equation**
GÜNER Ö., Bekir A., ÜNSAL Ö.
OPTIK, cilt.127, sa.20, ss.9571-9577, 2016 (SCI-Expanded)
- XII. **Soliton Solutions, Backlund Transformation and Lax Pair for Coupled Burgers System via Bell Polynomials**
ÜNSAL Ö., TAŞCAN F.
ZEITSCHRIFT FÜR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES, cilt.70, sa.5, ss.359-363, 2015 (SCI-Expanded)
- XIII. **The First Integral Method for Exact Solutions of Nonlinear Fractional Differential Equations**
Bekir A., Guner O., ÜNSAL Ö.
JOURNAL OF COMPUTATIONAL AND NONLINEAR DYNAMICS, cilt.10, sa.2, 2015 (SCI-Expanded)
- XIV. **Multiscale expansions in discrete world**
ÜNSAL Ö., TAŞCAN F., ÖZER M. N.
PRAMANA-JOURNAL OF PHYSICS, cilt.83, sa.1, ss.21-28, 2014 (SCI-Expanded)
- XV. **New exact solutions for boussinesq type equations by using $(G_0=G; 1=G)$ and $(1=G_0)$ -expansion methods**
Demiray S., Unsal Ö., Bekir A.
Acta Physica Polonica A, cilt.125, sa.5, ss.1093-1098, 2014 (SCI-Expanded)
- XVI. **Analytic treatment of nonlinear evolution equations using first integral method**
Bekir A., ÜNSAL Ö.
PRAMANA-JOURNAL OF PHYSICS, cilt.79, sa.1, ss.3-17, 2012 (SCI-Expanded)
- XVII. **Periodic and solitary wave solutions of coupled nonlinear wave equations using the first integral method**
Bekir A., ÜNSAL Ö.
PHYSICA SCRIPTA, cilt.85, sa.6, 2012 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

- I. **Analytical solutions to new forms of two nonlinear partial differential equations via two variable expansion method**
Kara S., ÜNSAL Ö.
Partial Differential Equations in Applied Mathematics, cilt.5, 2022 (Scopus)
- II. **Complexiton solutions for new form of $(3+1)$ -dimensional BKP-Boussinesq equation**
ÜNSAL Ö.
Journal of Ocean Engineering and Science, 2022 (Scopus)
- III. **Implementation of two variable expansion method for extended Jimbo–Miwa equations**
Kara S., ÜNSAL Ö.
Journal of Ocean Engineering and Science, 2022 (Scopus)
- IV. **Application of Extended Transformed Rational Function Method to Some $(3+1)$ Dimensional Nonlinear Evolution Equations**
ÜNSAL Ö.
Karaelmas Science and Engineering Journal, cilt.8, sa.2, ss.433-437, 2018 (Hakemli Dergi)
- V. **NONLINEAR SELF ADJOINTNESS AND EXACT SOLUTION OF FOKAS-OLVER-ROSENAU-QIAO (FORQ) EQUATION**
TAŞCAN F., ÜNSAL Ö., Akbulut A., SAN S.

- VI. **Exact solutions of nonlinear wave equations using $(G'/G, 1/G)$ -expansion method**
DEMİRAY S., ÜNSAL Ö., BEKİR A.
Journal of the Egyptian Mathematical Society, cilt.23, sa.1, ss.78-84, 2015 (Hakemli Dergi)
- VII. **Exact solutions of the Zoomeron and Klein Gordon Zakharov equations**
BEKİR A., TAŞCAN GÜNEY F., ÜNSAL Ö.
Journal of the Association of Arab Universities for Basic and Applied Sciences, cilt.17, sa.1, ss.1-5, 2015 (Hakemli Dergi)
- VIII. **Exact Solutions for a Class of Nonlinear Wave Equations By Using First Integral Method**
BEKİR A., ÜNSAL Ö.
International Journal of Nonlinear Science, cilt.15, sa.2, ss.99-110, 2013 (Hakemli Dergi)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **An Efficient Method for Finding Trigonometric, Hyperbolic and Mixed Type Exact Solutions to New Form of (21)-Dimensional BKP Equation**
ÜNSAL Ö.
International Symposium on Academic Studies in Science, Engineering and Architecture Sciences, Ankara, Türkiye, 15 - 17 Kasım 2019, ss.133
- II. **Complexiton and Interaction solutions for (21)-Dimensional Sawada-Kotera equation**
ÜNSAL Ö.
Recent Advances in Mathematical and Engineering Sciences: International Mathematics and Engineering Conference, 24-26 July 2019 Lviv, Ukraine, Lviv, Ukrayna, 24 - 26 Temmuz 2019, ss.21
- III. **New Exact Solutions for New Form of (31)-Dimensional BKP-Boussinesq Equation**
ÜNSAL Ö.
Recent Advances in Mathematical and Engineering Sciences: International Mathematics and Engineering Conference, 24-26 July 2019 Lviv, Ukraine, Lviv, Ukrayna, 24 - 26 Temmuz 2019, ss.19
- IV. **On the Complexiton Solutions of Generalized Bilinear Equations via Extended Transformed Rational Function Method**
ÜNSAL Ö., TAŞCAN GÜNEY F.
INTERNATIONAL CONFERENCE ON MATHEMATICS“An Istanbul Meeting for World Mathematicians”Minisymposium on Approximation Theory Minisymposium on Math Education, İstanbul, Türkiye, 3 - 06 Temmuz 2018, ss.279
- V. **Modified Double Sub-Equation Method for Solving Nonlinear Evolution Equations**
ÜNSAL Ö., KOPARAN M.
7th International Conference on Applied Analysis and Mathematical Modeling, İstanbul, Türkiye, 20 - 24 Haziran 2018, ss.219
- VI. **Multiple Scales Method for Higher Order KdV Equation**
Çakır F., KOPARAN M., ÜNSAL Ö.
International Conference on Mathematical Advances and Application, İstanbul, Türkiye, 11 - 13 Mayıs 2018, ss.56
- VII. **Construction of Exact Solutions to Partial Differential Equations with Trial Method**
TAŞCAN GÜNEY F., Pir L. B., ÜNSAL Ö.
3rd International Conference on Computational Mathematics and Engineering Sciences, Girne, Kıbrıs (Kktc), 4 - 06 Mayıs 2018
- VIII. **Extended Transformed Rational Function Method for Some (31)Dimensional Nonlinear Partial Differential Equations**
ÜNSAL Ö., BEKİR A., KOPARAN M.
6th International Eurasian Conference on Mathematical Sciences and Applications, Budapest, Macaristan, 15 - 18 Ağustos 2017, ss.160-161

- IX. **Simplified Hirota Method for a Nonlinear Partial Differential Equation**
ÜNSAL Ö., BEKİR A., KOPARAN M.
6th International Eurasian Conference on Mathematical Sciences and Applications, Budapest, Macaristan, 15 - 18 Ağustos 2017, ss.158-159
- X. **Soliton solution and other solutions to a nonlinear fractional differential equation**
GÜNER Ö., ÜNSAL Ö., Bekir A., Kadem A.
11th International Conference on Mathematical Problems in Engineering, Aerospace and Sciences (ICNPAA), La Rochelle, Fransa, 4 - 08 Temmuz 2016, cilt.1798
- XI. **The (G'/G) -expansion method for the nonlinear time fractional differential equations**
ÜNSAL Ö., GÜNER Ö., Bekir A., ÇEVİKEL A. C.
11th International Conference on Mathematical Problems in Engineering, Aerospace and Sciences (ICNPAA), La Rochelle, Fransa, 4 - 08 Temmuz 2016, cilt.1798
- XII. **Singular 1-soliton solution of the nonlinear variable-coefficient diffusion reaction and mKdV equations**
GÜNER Ö., Bekir A., ÜNSAL Ö., ÇEVİKEL A. C.
11th International Conference on Mathematical Problems in Engineering, Aerospace and Sciences (ICNPAA), La Rochelle, Fransa, 4 - 08 Temmuz 2016, cilt.1798
- XIII. **Analytical approach for space time fractional Klein Gordon equation**
ÜNSAL Ö., GÜNER Ö., BEKİR A.
International Conference on Quantum Science and Applications, Eskişehir, Türkiye, 25 - 27 Mayıs 2016, ss.161
- XIV. **Complexiton solutions for some nonlinear partial differential equations**
ÜNSAL Ö., BEKİR A., TAŞCAN GÜNEY F., ÖZER M. N.
ICQSA-2016, 25 - 27 Mayıs 2016
- XV. **Exact solutions of some fractional differential equations by various expansion methods**
Topsakal M., GÜNER Ö., Bekir A., ÜNSAL Ö.
International Conference on Quantum Science and Applications (ICQSA), Eskişehir, Türkiye, 25 - 27 Mayıs 2016, cilt.766
- XVI. **Application of Binary Bell Polynomial Approach to a 2 1 Dimensional Nonlinear Evolution Equation**
ÜNSAL Ö., TAŞCAN GÜNEY F., ÖZER M. N.
IECMSA-2014, 3rd International Eurasian Conference on Mathematical Sciences and Applications, Viyana, Avusturya, 25 - 28 Ağustos 2014, ss.247-248
- XVII. **An efficient method for solving the nonlinear fractional Klein Gordon type equations**
ÜNSAL Ö., BEKİR A., GÜNER Ö.
Karatekin Mathematics Days-International Symposium on Mathematics, Çankırı, Türkiye, 11 - 13 Haziran 2014, ss.130
- XVIII. **Çok Ölçekli Açılım Metodunun Diferensiyel Fark Denklemlerine Uygulamaları**
ÜNSAL Ö., TAŞCAN GÜNEY F., ÖZER M. N.
13. Matematik Sempozyumu, Türkiye, 15 - 17 Mayıs 2014
- XIX. **Lineer Olmayan Schrödinger Denkleminin Hareketli Dalga Çözümleri**
KAPLAN M., ÜNSAL Ö., BEKİR A.
8. Ankara Matematik Günleri, Ankara, Türkiye, 13 - 14 Haziran 2013, ss.50
- XX. **Travelling Wave Solutions of Nonlinear Equations Using the $(G'/G, 1/G)$ Expansion Method**
DEMİRAY S., ÜNSAL Ö., BEKİR A.
International Conference on Applied Analysis and Mathematical Modeling (ICAAMM2013), İstanbul, Türkiye, 2 - 05 Haziran 2013, ss.428-429
- XXI. **Lineer Olmayan Oluşum Denklemlerinin $(G'/G, 1/G)$ Metodu ile Hareketli Dalga Çözümleri**
ÜNSAL Ö., DEMİRAY S., BEKİR A.
12. Matematik Sempozyumu, Ankara, Türkiye, 23 - 25 Mayıs 2013, ss.311-313

Metrikler

Yayın: 47

Atıf (WoS): 272

Atıf (Scopus): 317

H-İndeks (WoS): 9

H-İndeks (Scopus): 10