

Prof.Dr. FİLİZ TAŞCAN

Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Eskişehir Osmangazi Üniversitesi, Fen Bilimleri Enstitüsü, Matematik (Dr), Türkiye 1998 - 2002

Yüksek Lisans, Eskişehir Osmangazi Üniversitesi, Fen Bilimleri Enstitüsü, Matematik (Yl) (Tezli), Türkiye 1995 - 1998

Lisans, Eskişehir Osmangazi Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, Türkiye 1991 - 1995

Yabancı Diller

İngilizce, B2 Orta Üstü

Yaptığı Tezler

Doktora, İntegralebilirlik ve perturbasyon teori, Eskişehir Osmangazi Üniversitesi, Fen Bilimleri Enstitüsü, Matematik (Dr), 2002

Yüksek Lisans, Sonlu boyutlu integrallenebilen hamilton sistemler, Eskişehir Osmangazi Üniversitesi, Fen Bilimleri Enstitüsü, Matematik (Yl) (Tezli), 1998

Araştırma Alanları

Diferansiyel denklemler

Akademik Unvanlar / Görevler

Prof.Dr., Eskişehir Osmangazi Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Ve Bilgisayar Bilimleri Bölümü, 2017 - Devam Ediyor

Doç.Dr., Eskişehir Osmangazi Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Ve Bilgisayar Bilimleri Bölümü, 2012 - 2017

Yrd.Doç.Dr., Eskişehir Osmangazi Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2003 - 2012

Araştırma Görevlisi, Eskişehir Osmangazi Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 1995 - 2003

Yönetilen Tezler

TAŞCAN F., Lokal ve eş formlu kesir mertebeli diferansiyel denklemlerin çözümleri, Doktora, M.TOPSAKAL(Öğrenci), 2019

TAŞCAN F., Lineer olmayan diferansiyel denklemlerin trial metot ile tam çözümleri, Yüksek Lisans, L.BURÇİN(Öğrenci), 2019

TAŞCAN F., Kesir mertebeli diferansiyel denklemlerin simetri indirmeleri ve korunumluluk kanunları, Doktora,

A.AKBULUT(Öğrenci), 2017

TAŞCAN F., Kısmi diferensiyel denklemlerin Riemann Theta fonksiyonları ile periyodik çözümleri, Doktora,

S.DEMİRAY(Öğrenci), 2016

TAŞCAN F., Kısmi diferensiyel denklemlerin q-koşullu simetrlileri, Yüksek Lisans, H.BOZDAĞ(Öğrenci), 2014

TAŞCAN F., Matematiksel mantık, ispat teknikleri, fibonacci sayısı, pisagor teoremi ispatı, Yüksek Lisans,

H.TOPKAYA(Öğrenci), 2013

TAŞCAN F., Kısmi diferensiyel denklemler için korunumluluk kanunları, Yüksek Lisans, A.YAKUT(Öğrenci), 2012

TAŞCAN F., Adi diferensiyel denklemlerin simetrlileri ve çözümleri, Yüksek Lisans, G.ÇELEBİ(Öğrenci), 2010

TAŞCAN F., Lineer olmayan denklemlerin analitik ve yaklaşık çözümleri, Yüksek Lisans, D.KIRMIZITOPRAK(Öğrenci),

2008

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

I. The (3 + 1)-dimensional Wazwaz-KdV equations: The conservation laws and exact solutions

Akbulut A., Rezazadeh H., Hashemi M. S., Taşcan F.

International Journal of Nonlinear Sciences and Numerical Simulation, cilt.24, sa.2, ss.673-693, 2023 (SCI-Expanded)

II. A novel integration approach to study the perturbed Biswas-Milovic equation with Kudryashov's law of refractive index

Mirzazadeh M., Akbulut A., TAŞCAN F., Akinyemi L.

Optik, cilt.252, 2022 (SCI-Expanded)

III. Obtaining exact solutions of nonlinear partial differential equations via two different methods

Akbulut A., Islam S. M. R., Rezazadeh H., TAŞCAN F.

International Journal of Modern Physics B, cilt.36, 2022 (SCI-Expanded)

IV. The analysis of conservation laws, symmetries and solitary wave solutions of Burgers-Fisher equation

Akbulut A., Kaplan M., Kumar D., TAŞCAN F.

International Journal of Modern Physics B, cilt.35, sa.22, 2021 (SCI-Expanded)

V. On symmetries, conservation laws and exact solutions of the nonlinear Schrodinger-Hirota equation

Akbulut A., TAŞCAN F.

WAVES IN RANDOM AND COMPLEX MEDIA, cilt.28, sa.2, ss.389-398, 2018 (SCI-Expanded)

VI. Application of conservation theorem and modified extended tanh-function method to (1+1)-dimensional nonlinear coupled Klein-Gordon-Zakharov equation

Akbulut A., TAŞCAN F.

CHAOS SOLITONS & FRACTALS, cilt.104, ss.33-40, 2017 (SCI-Expanded)

VII. 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)

VIII. 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)

IX. The investigation of exact solutions of nonlinear partial differential equations by using exp(-Phi(xi)) method

Akbulut A., Kaplan M., TAŞCAN F.

OPTIK, cilt.132, ss.382-387, 2017 (SCI-Expanded)

X. Conservation laws and Exact Solutions of Phi-Four (Phi-4) Equation via the (G '/G, 1/G)-Expansion Method

Akbulut A., Kaplan M., TAŞCAN F.

- ZEITSCHRIFT FUR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES, cilt.71, sa.5, ss.439-446, 2016 (SCI-Expanded)
- XI. **Quasi-periodic solutions of (3+1) generalized BKP equation by using Riemann theta functions**
DEMİRAY S., TAŞCAN F.
APPLIED MATHEMATICS AND COMPUTATION, cilt.273, ss.131-141, 2016 (SCI-Expanded)
- XII. **Conservation Laws and Exact Solutions with Symmetry Reduction of Nonlinear Reaction Diffusion Equations**
TAŞCAN F., Yakut A.
INTERNATIONAL JOURNAL OF NONLINEAR SCIENCES AND NUMERICAL SIMULATION, cilt.16, ss.191-196, 2015 (SCI-Expanded)
- XIII. **Soliton Solutions, Backlund Transformation and Lax Pair for Coupled Burgers System via Bell Polynomials**
ÜNSAL Ö., TAŞCAN F.
ZEITSCHRIFT FUR NATURFORSCHUNG SECTION A-A JOURNAL OF PHYSICAL SCIENCES, cilt.70, sa.5, ss.359-363, 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. **Periodic and Solitary Wave Solutions of Complex Nonlinear Evolution Equations by Using First Integral Method**
TAŞCAN F., Bekir A.
INTERNATIONAL JOURNAL OF NONLINEAR SCIENCES AND NUMERICAL SIMULATION, cilt.14, sa.5, ss.255-260, 2013 (SCI-Expanded)
- XVI. **The first-integral method applied to the Eckhaus equation**
Taghizadeh N., Mirzazadeh M., TAŞCAN F.
APPLIED MATHEMATICS LETTERS, cilt.25, sa.5, ss.798-802, 2012 (SCI-Expanded)
- XVII. **EXACT SOLUTIONS OF COUPLED KdV EQUATION DERIVED FROM THE COUPLED NLS EQUATION USING MULTIPLE SCALES METHOD**
TAŞCAN F., Bekir A.
INTERNATIONAL JOURNAL OF MODERN PHYSICS B, cilt.25, sa.29, ss.4021-4028, 2011 (SCI-Expanded)
- XVIII. **Application of Adapted Homotopy Perturbation Method for Approximate Solution of Henon-Heiles System**
TAŞCAN F., ÖZER M. N.
NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS, cilt.26, sa.6, ss.1522-1529, 2010 (SCI-Expanded)
- XIX. **Derivation of Korteweg-de Vries flow equations from modified nonlinear Schrodinger equation**
ÖZER M. N., TAŞCAN F., KOPARAN M.
NONLINEAR ANALYSIS-REAL WORLD APPLICATIONS, cilt.11, sa.4, ss.2619-2623, 2010 (SCI-Expanded)
- XX. **Applications of the first integral method to nonlinear evolution equations**
TAŞCAN F., Bekir A.
CHINESE PHYSICS B, cilt.19, sa.8, 2010 (SCI-Expanded)
- XXI. **Periodic and solitary wave solutions of the attractive and repulsive nonlinear Schrodinger equation**
TAŞCAN F., Bekir A.
INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, cilt.87, sa.5, ss.1066-1071, 2010 (SCI-Expanded)
- XXII. **Analytic solutions of the (2+1)-dimensional nonlinear evolution equations using the sine-cosine method**
TAŞCAN F., Bekir A.
APPLIED MATHEMATICS AND COMPUTATION, cilt.215, sa.8, ss.3134-3139, 2009 (SCI-Expanded)
- XXIII. **Derivation of Korteweg-de Vries flow equations from nonlinear Schrodinger equation**
ÖZER M. N., TAŞCAN F.
CHAOS SOLITONS & FRACTALS, cilt.40, sa.5, ss.2265-2270, 2009 (SCI-Expanded)

- XXIV. **Travelling wave solutions of nonlinear evolution equations by using the first integral method**
 TAŞCAN F., Bekir A., KOPARAN M.
 COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, cilt.14, sa.5, ss.1810-1815, 2009 (SCI-Expanded)
- XXV. **Exact Solutions of Dispersive Water Wave Equation**
 ÖZER M. N., TAŞCAN F.
 INTERNATIONAL JOURNAL OF NONLINEAR SCIENCES AND NUMERICAL SIMULATION, cilt.10, sa.4, ss.539-545, 2009 (SCI-Expanded)
- XXVI. **Travelling wave solutions of the Cahn-Allen equation by using first integral method**
 TAŞCAN F., Bekir A.
 APPLIED MATHEMATICS AND COMPUTATION, cilt.207, sa.1, ss.279-282, 2009 (SCI-Expanded)
- XXVII. **Normal forms and the multiple-times expansion method for finite-dimensional integrable Hamiltonian systems**
 Nacioezer M., Tascan F.
 INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, cilt.84, sa.12, ss.1819-1841, 2007 (SCI-Expanded)

Düger Dergilerde Yayınlanan Makaleler

- I. **A novel scheme for SMCH equation with two different approaches**
 AKBULUT A., Islam S. M. R., Arifat S. M. Y., TAŞCAN F.
 COMPUTATIONAL METHODS FOR DIFFERENTIAL EQUATIONS, cilt.11, sa.2, ss.263-280, 2023 (ESCI)
- II. **Trivial conservation laws and solitary wave solution of the fifth order Lax equation**
 AKBULUT A., TAŞCAN F., ÖZEL E.
 Partial Differential Equations in Applied Mathematics, cilt.4, sa.100101, ss.1-5, 2021 (Hakemli Dergi)
- III. **Exact Travelling Wave Solutions for Space-Time Fractional Klein-Gordon Equation and (21)-Dimensional Time-Fractional Zoomeron Equation via Auxiliary Equation Method**
 Topsakal M., TAŞCAN F.
 Applied Mathematics and Nonlinear Sciences, cilt.5, sa.1, ss.437-446, 2020 (Scopus)
- IV. **NONLINEAR SELF ADJOINTNESS AND EXACT SOLUTION OF FOKAS-OLVER-ROSENAU-QIAO (FORQ) EQUATION**
 TAŞCAN F., ÜNSAL Ö., Akbulut A., SAN S.
 COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, cilt.67, sa.2, ss.317-326, 2018 (ESCI)
- V. **IMPLEMENTATIONS OF CONSERVATION THEOREM AND THE EXPONENTIAL RATIONAL FUNCTION METHOD TO VISCOUS BURGERS EQUATION**
 TAŞCAN GÜNEY F., Akbulut A., KAPLAN M.
 ANADOLU UNIVERSITY JOURNAL OF SCIENCE AND TECHNOLOGY A - Applied Sciences and Engineering, cilt.18, sa.1, ss.31-38, 2017 (Hakemli Dergi)
- VI. **Exact Solutions of Nonlinear Partial Differential Equations with $\exp(-\varphi(\zeta))$ - Expansion Method**
 TAŞCAN GÜNEY F., Akbulut A.
 Afyon Kocatepe Üniversitesi Fen ve Mühendislik Bilimleri Dergisi, cilt.17, ss.86-92, 2017 (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. **Derivation of Korteweg de Vries flow equations from derivative nonlinear Schrodinger equation**
 ÖZER M. N., TAŞCAN GÜNEY F., KOPARAN M.
 Journal of Advanced Research in Differential Equations, cilt.3, sa.2, ss.73-80, 2011 (Scopus)
- IX. **Derivation of Integrable Nonlinear Evolution Equations**
 ÖZER M. N., TAŞCAN GÜNEY F.

- Hadronic Journal Supplement, cilt.18, sa.1, ss.89-98, 2003 (Scopus)
- X. **KdV Equation and Fifth Order Integrable Nonlinear Evolution Equations from the famous NLS Equation**
 ÖZER M. N., TAŞCAN GÜNEY F.
 Hadronic Journal Supplement, cilt.17, sa.3, ss.495-506, 2002 (Scopus)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **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
- II. **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
- III. **Exact solutions of the nonlinear differential equation via (w/g)-expansion method**
 TAŞCAN GÜNEY F., Akbulut A.
 Ukrainian Conference on Applied Mathematics - 2017, Lviv, Ukrayna, 28 - 30 Eylül 2017
- IV. **Construction of exact solutions to partial differential equations via CRE method**
 TAŞCAN GÜNEY F., Akbulut A.
 IECMSA, Budapest, Macaristan, 15 - 18 Ağustos 2017
- V. **Conservation laws and exact solutions of the fifth order (11)-dimensional Kaup-Kupershmidt equation**
 KAPLAN M., AKBULUT A., TAŞCAN GÜNEY F.
 3 rd International Conference on Symmetry of Differential Equations and Applications, İstanbul, Türkiye, 14 - 17 Ağustos 2017
- VI. **Conservation laws and exact solutions of the Wu-Zhang system**
 AKBULUT A., KAPLAN M., TAŞCAN GÜNEY F.
 3 rd International Conference on Symmetry of Differential Equations and Applications, İstanbul, Türkiye, 14 - 17 Ağustos 2017
- VII. **Obtaining Three-Periodic Wave Solutions of (31) Dimensional BKP Equation Using Hirota-Riemann Method**
 DEMİRAY S., TAŞCAN GÜNEY F.
 ICMME-2017, Şanlıurfa, Türkiye, 11 - 13 Mayıs 2017
- VIII. **Reduction of Nonlinear Partial Differential Equations via Optimal Systems**
 TAŞCAN GÜNEY F., KATIRCI U.
 ICMME-2017, Şanlıurfa, Türkiye, 11 - 13 Mayıs 2017
- IX. **Conservation laws and exact solutions of system of Boussinesq-Burgers equations**
 Akbulut A., Kaplan M., TAŞCAN F.
 11th International Conference on Mathematical Problems in Engineering, Aerospace and Sciences (ICNPAA), La Rochelle, Fransa, 4 - 08 Temmuz 2016, cilt.1798
- X. **Quasi periodic wave solutions of 2 dimensional breaking wave solutions using Riemann theta functions**
 DEMİRAY S., TAŞCAN GÜNEY F.
 IECMSA-2016, Belgrade, Sırbistan, 16 - 19 Ağustos 2016
- XI. **Complexiton solutions for some nonlinear partial differential equations**
 ÜNSAL Ö., BEKİR A., TAŞCAN GÜNEY F., ÖZER M. N.

- ICQSA-2016, 25 - 27 Mayıs 2016
- XII. **Conservation Laws of Partial Differential Equations Using Two Different Method**
AKBULUT A., TAŞCAN GÜNEY F.
ICMME-2016, Elazığ, Türkiye, 12 - 14 Mayıs 2016
- XIII. **Conservation Laws and Exact Solutions of Nonlinear partial Differential Equation**
Akbulut A., KAPLAN M., TAŞCAN GÜNEY F.
ICMME-2016, Elazığ, Türkiye, 12 - 14 Mayıs 2016
- XIV. **Conservation Laws and Exact Solution of Nonlinear Differential Equation**
KAPLAN M., Akbulut A., TAŞCAN GÜNEY F.
4 th International Eurasian Conference on Mathematical Sciences and Application, 31 Ağustos - 03 Eylül 2015
- XV. **Riemann Theta Fonksiyonları ile 3 1 BKP Denkleminin Quasi Peryodik Çözümleri**
DEMİRAY S., TAŞCAN GÜNEY F.
14.Matematik Sempozyumu, Türkiye, 14 - 16 Mayıs 2015
- XVI. **Kısmi Diferensiyl Denklemlerin Q Koşullu Simetrlileri**
Hacer B., TAŞCAN GÜNEY F.
14. Matematik Sempozyumu, Türkiye, 14 - 16 Mayıs 2015
- XVII. **Conservation laws and symmetry reduction of nonlinear reaction diffusion equation**
Akbulut A., TAŞCAN GÜNEY F.
International Conference on Applied Analysis and Matematical Modeling, 8 - 12 Mayıs 2015
- XVIII. **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
- XIX. **Çok Ölçekli Açılmış Metodunun Diferensiyl Fark Denklemlerine Uygulamaları**
ÜNSAL Ö., TAŞCAN GÜNEY F., ÖZER M. N.
13. Matematik Sempozyumu, Türkiye, 15 - 17 Mayıs 2014
- XX. **Kısmi Diferensiyl Denklemlerin Riemann Theta Fonksiyonları ile Periyodik Çözümleri**
DEMİRAY S., TAŞCAN GÜNEY F.
13. Matematik Sempozyumu, Türkiye, 15 - 17 Mayıs 2014
- XXI. **Lie Nokta Simetrlileri ile Lineer Olmayan Kısmi Diferensiyl Denklemlerin Çözümleri**
TAŞCAN GÜNEY F.
- XXIII. Ulusal Matematik Sempozyumu, Kayseri, Türkiye, 4 - 07 Ağustos 2010

Desteklenen Projeler

TAŞCAN F., Yükseköğretim Kurumları Destekli Proje, Kısmi Diferensiyl Denklemlerin Riemann Theta Fonksiyonları İle
Periodik Çözümleri, 2014 - 2016

Metrikler

Yayın: 58
Atıf (WoS): 268
Atıf (Scopus): 305
H-İndeks (WoS): 8
H-İndeks (Scopus): 9

Akademi Dışı Deneyim

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