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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Eskişehir Osmangazi Üniversitesi, FEN BİLİMLERİ ENSTİTÜSÜ, Matematik (Dr), Türkiye 1998 - 2002

Yüksek Lisans, Eskişehir Osmangazi Üniversitesi, FEN BİLİMLERİ ENSTİTÜSÜ, Matematik (Yıl) (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 BİLİMLERİ ENSTİTÜSÜ, Matematik (Dr), 2002

Yüksek Lisans, Sonlu boyutlu integrallenebilen hamilton sistemler, Eskişehir Osmangazi Üniversitesi, FEN BİLİMLERİ ENSTİTÜSÜ, Matematik (Yıl) (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 diferensiyel denklemlerin çözümleri, Doktora, M.TOPSAKAL(Öğrenci), 2019

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

TAŞCAN F., Kesir mertebeli diferensiyel denklemlerin simetri indirmeleri ve korunumluluk kanunları, Doktora, A.AKBULUT(Öğrenci), 2017

TAŞCAN F., Kısıtlı diferensiyel denklemlerin Riemann Theta fonksiyonları ile periyodik çözümleri, Doktora, S.DEMİRAY(Öğrenci), 2016

TAŞCAN F., Kısıtlı diferensiyel denklemlerin q -koşullu simetrisi, 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., Kısıtlı diferensiyel denklemler için korunumluluk kanunları, Yüksek Lisans, A.YAKUT(Öğrenci), 2012

TAŞCAN F., Adı diferensiyel denklemlerin simetrisi 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. **Study for obtaining the exact solutions for the propagation of pulses in optical fibers**
AKBULUT A., Razzaq W., TAŞCAN F.
Communications in Theoretical Physics, cilt.76, sa.10, 2024 (SCI-Expanded)
- II. **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)
- 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. **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)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. 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)
- XI. 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)
- XII. 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)
- XIII. 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)
- XIV. 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)
- XV. 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)
- XVI. 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)
- XVII. 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)
- XVIII. 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)
- XIX. 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)
- XX. 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)
- XXI. Applications of the first integral method to nonlinear evolution equations
 TAŞCAN F., Bekir A.
 CHINESE PHYSICS B, cilt.19, sa.8, 2010 (SCI-Expanded)
- XXII. 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)
- XXIII. 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)
- XXIV. 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)
- XXV. 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)
- XXVI. 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)
- XXVII. 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)
- XXVIII. Normal forms and the multiple-times expansion method for finite-dimensional integrable Hamiltonian systems**
 Nacoezer M., Tascan F.
 INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, cilt.84, sa.12, ss.1819-1841, 2007 (SCI-Expanded)

Diger Dergilerde Yayınlanan Makaleler

- I. **Application of new Kudryashov method to Sawada-Kotera and Kaup-Kupershmidt equations**
 Aydn Z., TAŞCAN F.
 Computational Methods for Differential Equations, cilt.13, sa.2, ss.608-617, 2025 (ESCI)
- II. **APPLICATION OF THE GENERALIZED KUDRYASHOV METHOD TO THE KOLMOGOROV-PETROVSKII-PISKUNOV EQUATION**
 AYDIN Z., TASCAN F.
 Eskişehir Technical University Journal of Science and and Technology A- Applied Sciences and Engineering, cilt.25, sa.2, ss.320-330, 2024 (Hakemli Dergi)
- III. **A novel scheme for SMCH equation with two different approaches**
 AKBULUT A., Islam S. M. R., Arafat S. M. Y., TAŞCAN F.
 COMPUTATIONAL METHODS FOR DIFFERENTIAL EQUATIONS, cilt.11, sa.2, ss.263-280, 2023 (ESCI)
- IV. **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)
- V. **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)
- VI. **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)
- VII. **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)

- VIII. **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)

- IX. **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)

- X. **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)

- XI. **Derivation of Integrable Nonlinear Evolution Equations**
ÖZER M. N., TAŞCAN GÜNEY F.

Hadronic Journal Supplement, cilt.18, sa.1, ss.89-98, 2003 (Scopus)

- XII. **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 Bilimsel Toplantılarda Yayımlanmış Bildiriler

- 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, (Özet Bildiri)

- 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, (Özet Bildiri)

- 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, (Özet Bildiri)

- IV. **Construction of exact solutions to partial differential equations via CRE method**

TAŞCAN GÜNEY F., Akbulut A.

IECMSA, Budapest, Macaristan, 15 - 18 Ağustos 2017, (Özet Bildiri)

- 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, (Özet Bildiri)

- 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, (Özet Bildiri)

- 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, (Özet Bildiri)

VIII. Reduction of Nonlinear Partial Differential Equations via Optimal Systems

TAŞCAN GÜNEY F., KATIRCI U.

ICMME-2017, Şanlıurfa, Türkiye, 11 - 13 Mayıs 2017, (Özet Bildiri)

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, (Tam Metin Bildiri)

X. Quasi periodic wave solutions of 2 1 dimensional breaking wave solutions using Riemann theta functions

DEMİRAY S., TAŞCAN GÜNEY F.

IECMSA-2016, Belgrade, Sırbistan, 16 - 19 Ağustos 2016, (Özet Bildiri)

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, (Özet Bildiri)

XII. Conservation Laws of Partial Differential Equations Using Two Different Method

AKBULUT A., TAŞCAN GÜNEY F.

ICMME-2016, Elazığ, Türkiye, 12 - 14 Mayıs 2016, (Özet Bildiri)

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, (Özet Bildiri)

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, (Özet Bildiri)

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, (Özet Bildiri)

XVI. Kısmi Diferensiyel Denklemlerin Q Koşullu Simetrlileri

Hacer B., TAŞCAN GÜNEY F.

14. Matematik Sempozyumu, Türkiye, 14 - 16 Mayıs 2015, (Özet Bildiri)

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, (Özet Bildiri)

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, (Özet Bildiri)

XIX. Çok Ölçekli Açılmış Metodunun Diferensiyel Fark Denklemlerine Uygulamaları

ÜNSAL Ö., TAŞCAN GÜNEY F., ÖZER M. N.

13. Matematik Sempozyumu, Türkiye, 15 - 17 Mayıs 2014, (Özet Bildiri)

XX. Kısmi Diferensiyel Denklemlerin Riemann Theta Fonksiyonları ile Periyodik Çözümleri

DEMİRAY S., TAŞCAN GÜNEY F.

13. Matematik Sempozyumu, Türkiye, 15 - 17 Mayıs 2014, (Özet Bildiri)

XXI. Lie Nokta Simetrileri ile Lineer Olmayan Kısmi Diferensiyel Denklemlerin Çözümleri

TAŞCAN GÜNEY F.

XXIII. Ulusal Matematik Sempozyumu, Kayseri, Türkiye, 4 - 07 Ağustos 2010, (Özet Bildiri)

Desteklenen Projeler

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

Metrikler

Yayın: 61

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Atıf (Scopus): 317

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H-İndeks (Scopus): 9

Akademi Dışı Deneyim

Eskişehir Osmangazi Üniversitesi, Öğretim Üyesi

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Eskişehir Devlet Hastanesi, Hemşire