

Assoc. Prof. Cihangir Özemir

Personal Information

Email: ozemir@itu.edu.tr

Web: <http://akademi.itu.edu.tr/ozemir/>

Education Information

Doctorate, Istanbul Technical University, Fen-Edebiyat Fakültesi, Matematik Bölümü, Turkey 2005 - 2012

Postgraduate, Istanbul Technical University, Fen-Edebiyat Fakültesi, Matematik Bölümü, Turkey 2002 - 2005

Undergraduate, Istanbul Technical University, İnşaat Fakültesi, İnşaat Mühendisliği Bölümü, Turkey 1997 - 2002

Foreign Languages

English

Dissertations

Doctorate, Bazı özel 1+1- ve 2+1-boyutlu evrim tipi denklemlerde integre edilebilme ve simetriler, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2012

Postgraduate, 2+1 boyutlu Kübik Schrödinger denkleminin grup-değişmez çözümleri, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2005

Research Areas

Basic Sciences, Mathematics, Differential Equations

Academic Titles / Tasks

Assistant Professor, Istanbul Technical University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2013 - Continues

Lecturer PhD, Istanbul Technical University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2012 - 2013

Research Assistant, Istanbul Technical University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2002 - 2012

Academic and Administrative Experience

İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2012 - 2013

Advising Theses

Özemir C., Demirci A., Analysis of a prey-predator dynamics with a modified Holling-Tanner model and delay effect, Postgraduate, S.SAKARYA(Student), 2021

Özemir C., Group classification for a higher-order Boussinesq equation, Postgraduate, Y.HASANOĞLU(Student), 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Hopf bifurcation of a financial dynamical system with delay**
Calis Y., Demirci A., Özemer C.
MATHEMATICS AND COMPUTERS IN SIMULATION, vol.201, pp.343-361, 2022 (Journal Indexed in SCI)
- II. **On the Rosenau equation: Lie symmetries, periodic solutions and solitary wave dynamics**
Demirci A., Hasanoğlu Y., Muslu G. M. , Özemer C.
Wave Motion, vol.109, 2022 (Journal Indexed in SCI)
- III. **Dispersionless Davey-Stewartson system: Lie symmetry algebra, symmetry group and exact solutions**
Gungor F., Özemer C.
EUROPEAN PHYSICAL JOURNAL PLUS, vol.136, no.7, 2021 (Journal Indexed in SCI)
- IV. **Bifurcation analysis of Friedkin-Johnsen and Hegselmann-Krause models with a nonlinear interaction potential**
Ata F., Demirci A., Özemer C.
MATHEMATICS AND COMPUTERS IN SIMULATION, vol.185, pp.676-686, 2021 (Journal Indexed in SCI)
- V. **Group classification and exact solutions of a higher-order Boussinesq equation**
Hasanoğlu Y., Özemer C.
Nonlinear Dynamics, vol.104, pp.2599-2611, 2021 (Journal Indexed in SCI)
- VI. **Davey–Stewartson equations in $(3 + 1)$ dimensions with an infinite-dimensional symmetry algebra**
Ozemer C.
Letters in Mathematical Physics, vol.110, no.6, pp.1201-1213, 2020 (Journal Indexed in SCI Expanded)
- VII. **On some canonical classes of cubic-quintic nonlinear Schrodinger equations**
Özemer C.
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol.446, no.2, pp.1814-1832, 2017 (Journal Indexed in SCI)
- VIII. **Variable coefficient Davey-Stewartson system with a Kac-Moody-Virasoro symmetry algebra**
Gungor F., Özemer C.
JOURNAL OF MATHEMATICAL PHYSICS, vol.57, no.6, 2016 (Journal Indexed in SCI)
- IX. **Lie symmetries of a generalized Kuznetsov Zabolotskaya Khokhlov equation**
GÜNGÖR F., Özemer C.
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol.423, pp.623-638, 2015 (Journal Indexed in SCI)
- X. **A variable coefficient nonlinear Schrodinger equation with a four-dimensional symmetry group and blow-up**
Gungor F., Hasanov M., Özemer C.
APPLICABLE ANALYSIS, vol.92, no.6, pp.1322-1331, 2013 (Journal Indexed in SCI)
- XI. **Symmetry classification of variable coefficient cubic-quintic nonlinear Schrodinger equations**
Özemer C., Gungor F.
JOURNAL OF MATHEMATICAL PHYSICS, vol.54, no.2, 2013 (Journal Indexed in SCI)
- XII. **On integrability of variable coefficient nonlinear Schrödinger equations**
Özemer C., Gungor F.
Reviews in Mathematical Physics, vol.24, no.7, 2012 (Journal Indexed in SCI Expanded)
- XIII. **Variable coefficient nonlinear Schrodinger equations with four-dimensional symmetry groups and analysis of their solutions**
Özemer C., Gungor F.
JOURNAL OF MATHEMATICAL PHYSICS, vol.52, no.9, 2011 (Journal Indexed in SCI)
- XIV. **Group-invariant solutions of the $(2+1)$ -dimensional cubic Schrodinger equation**

Ozehir C., GUNGOR F.

JOURNAL OF PHYSICS A-MATHEMATICAL AND GENERAL, vol.39, no.12, pp.2973-2993, 2006 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Consensus formation in a social group with a leader**
Ataş F., Demirci A., Özehir C.
International Conference on Applied Mathematics, Modeling and Life Sciences, İstanbul, Turkey, 2 - 05 October 2018, pp.20
- II. **Lider etkisindeki sistemlerde nonlinear düşünce dinamiği**
Ataş F., Demirci A., Özehir C.
20. Ulusal Mekanik Kongresi, Bursa, Turkey, 5 - 09 September 2017, pp.308-313
- III. **Bazı Kısmi Diferansiyel Denklemlerde Lie Simetrileri ve Çözümler**
ÖZEMİR C.
28. ULUSAL MATEMATİK SEMPOZYUMU, Turkey, 7 - 09 September 2015, pp.184
- IV. **Cubic Quintic NLS Equations with Four Dimensional Symmetry Algebras**
ÖZEMİR C.
Physics and Mathematics of Nonlinear Phenomena (PMNP2015), Lecce, Italy, 20 - 27 June 2015, pp.60
- V. **Infinite-dimensional symmetries of a general class of variable coefficient evolution equations in 2+1 dimensions**
Basarab-Horwath P., Gungor F., Ozehir C.
41st International Conference on Integrable Systems and Quantum Symmetries, ISQS 2013, Prague, Czech Republic, 12 - 16 June 2013, vol.474
- VI. **Exact Solutions and Classification of Symmetry Algebras for Variable Coefficient Nonlinear Schrödinger Equations**
ÖZEMİR C., GÜNGÖR F.
5th Workshop on Differential Equations and Applications, İzmir, Turkey, 14 - 16 September 2011
- VII. **Variable Coefficient Nonlinear Schrödinger Equations with Four Dimensional Symmetry Groups and Analysis of Their Solutions**
ÖZEMİR C.
Symmetry and Perturbation Theory 2011, Lecce, Italy, 5 - 12 June 2011
- VIII. **Integrability of Variable Coefficient Nonlinear Schrödinger Equations**
ÖZEMİR C., GÜNGÖR F.
WORKSHOP ON DIFFERENTIAL EQUATIONS AND APPLICATIONS IV, İstanbul, Turkey, 30 April - 02 May 2010
- IX. **Group Invariant Solutions of the 2 1 Dimensional Cubic Schrödinger Equation**
ÖZEMİR C.
Sixth International Conference on Symmetry in Nonlinear Mathematical Physics, Kiev, Ukraine, 20 - 27 June 2005

Supported Projects

Özehir C., Project Supported by Higher Education Institutions, DEĞİŞKEN KATSAYILI DAVEY-SEWARTSON SİSTEMİNİN ANALİZİ, 2015 - 2018

Özehir C., Project Supported by Higher Education Institutions, Cubic-Quintic NLS Eguations With Four-Dimensional Symmetry Algebras, 2015 - 2018

Citations

Total Citations (WOS):19

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