

Asst. Prof. MEHMET ÜNLÜ

Personal Information

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International Researcher IDs

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Education Information

Doctorate, University of Texas at Arlington, Fen Fakültesi, Matematik, United States Of America 2009 - 2014

Undergraduate, Van Yüzüncü Yil University, Eğitim Fakültesi, Matematik Öğretmenliği, Turkey 2002 - 2007

Academic Titles / Tasks

Assistant Professor, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2015 - Continues

Research Assistant PhD, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2014 - 2015

Courses

Engineering Mathematics-I, Undergraduate, 2020 - 2021

Engineering Mathematics, Undergraduate, 2020 - 2021

Numerical Solutions of Differential Equations, Postgraduate, 2020 - 2021

Laplace Transformation and Applications-I, Postgraduate, 2020 - 2021

Integral Equations, Undergraduate, 2020 - 2021

Partial Differential Equations, Undergraduate, 2020 - 2021

Laplace Dönüşümleri ve Uygulamaları -I, Postgraduate, 2019 - 2020

Diferansiyel Denklemler İçin Sayısal Çözüm Yöntemleri, Postgraduate, 2019 - 2020

Kısmi Diferansiyel Denklemler, Undergraduate, 2019 - 2020

Diferansiyel Denklemler, Undergraduate, 2019 - 2020

Mühendislik Matematiği, Undergraduate, 2019 - 2020

Advising Theses

Ünlü M., Exact Solution To The Focusing Nonlinear Schrödinger Equation, Postgraduate, S.Coruh(Student), Continues

Ünlü M., Soliton Solution of Korteweg De Vries Equation, Postgraduate, G.Gülşen(Student), Continues

Ünlü M., Kısmi türevli denklemlerin sonlu fark metodu ile nümerik çözümleri, Postgraduate, H.İBRAHİM(Student), 2020

Ünlü M., Darboux dönüşümleri için genel bir yaklaşım, Postgraduate, T.DİLİ(Student), 2017

Ünlü M., Çoklu solitonlar ve lineer olmayan kısmi diferansiyel denklemler, Postgraduate, E.ÖZDEMİR(Student), 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A generalized method for the Darboux transformation**
Aktosun T., ÜNLÜ M.
JOURNAL OF MATHEMATICAL PHYSICS, vol.63, no.9, 2022 (SCI-Expanded)
- II. **Inverse problems for selfadjoint Schrodinger operators on the half line with compactly supported potentials**
AKTOSUN T., Sacks P., Unlu M.
JOURNAL OF MATHEMATICAL PHYSICS, vol.56, no.2, 2015 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Darboux Transformation for The Schrödinger Equation**
Ünlü M.
Celebration of Life – Acad. Prof. Constantin Corduneanu, Virtual Mini-Symposium, California, United States Of America, 26 July 2021, pp.3
- II. **A generalized approach to Darboux transformations for differential equations**
ÜNLÜ M.
SACNAS National Conference, San Antonio, United States Of America, 3 - 06 November 2013, pp.314-315
- III. **Determination of a compactly supported potential for the half-line Schrödinger equation from the continuous part of the spectral function**
ÜNLÜ M.
Workshop on Inverse Problems, College Station, United States Of America, 01 November 2011, pp.4

Metrics

Publication: 13
Citation (WoS): 10
Citation (Scopus): 19
H-Index (WoS): 1
H-Index (Scopus): 2

Congress and Symposium Activities

1. Solitons in Two-Dimensional Water Waves and Applications to Tsunami, NSF/CBMS Regional Conference in the Mathematical Sciences, Attendee, Texas, United States Of America, 2013
3. SACNAS National Conference, Seattle, Attendee, Washington, United States Of America, 2012
2. Mathematical Methods of Computed Tomography, National Science Foundation, CBMS Conference, Arlington, Attendee, Texas, Turkey, 2012
4. Introductory Workshop: Free Boundary Problems, Theory and Applications, Mathematical Sciences Research Institute (MSRI), Berkeley, Attendee, California, United States Of America, 2011
5. Nonlinear Water Waves with Applications to Wave-Current Interactions and Tsunamis, NSF/CBMS Regional Conference in the Mathematical Sciences, Edinburg, Attendee, Texas, United States Of America, 2010

Scholarships

Dissertation Fellowship, University, 2014 - 2014
Yurt Dışı Doktora Bursu, Ministry of Education, 2008 - 2014