

## Asst. Prof. MEHMET ÜNLÜ

### Personal Information

**Office Phone:** [+90 464 236 1261](tel:+904642361261) Extension: 1813

**Email:** mehmet.unlu@erdogan.edu.tr

**Web:** <https://avesis.erdogan.edu.tr/mehmet.unlu>

### International Researcher IDs

ORCID: 0000-0001-6793-253X

Yoksis Researcher ID: 217797

### 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

### 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)

### Books & Book Chapters

#### I. Diferansiyel Denklemler Teorisi ve Çözümlü Örnekler

AMİROV R., TOPSAKAL N., ÜNLÜ M.

Nobel, 2022

## Refereed Congress / Symposium Publications in Proceedings

### I. THE GENERAL SYSTEM OF CHEN-LEE-LIU EQUATION

ÜNLÜ M.

11th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2022), İstanbul, Turkey, 29 August 2022

### II. 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

### III. 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

### IV. 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): 14

H-Index (WoS): 1

H-Index (Scopus): 1

## 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