

## Res. Asst. Canan ÜNLÜ

### Personal Information

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### International Researcher IDs

ORCID: 0000-0003-1274-6830

Publons / Web Of Science ResearcherID: AAT-4985-2020

Yoksis Researcher ID: 175832

### Education Information

Doctorate, Istanbul University, Faculty Of Science, Department of Mathematics, Turkey 2007 - 2014

Postgraduate, Ataturk University, Fen Fakültesi, Matematik, Turkey 2001 - 2004

Undergraduate, Ataturk University, Fen Fakültesi, Matematik, Turkey 1996 - 2000

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Kesirli Türevli Diferansiyel Denklemler ve Çözüm Yöntemleri, Istanbul University, Faculty Of Science, Department of Mathematics, 2014

Postgraduate, Metrik Uzayda Sabit Nokta Teoremi ve Uygulamaları, Ataturk University, Fen Bilimleri Enstitüsü, Matematik Anabilim Dalı, 2004

### Research Areas

Natural Sciences

### Academic Titles / Tasks

Research Assistant PhD, Istanbul University, Faculty of Science, Department of Mathematics, 2014 - Continues

Research Assistant, Istanbul University, Faculty of Science, Department of Mathematics, 2005 - 2014

Research Assistant, Ataturk University, Fen Fakültesi, Matematik, 2003 - 2005

### Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Heuristic computing performances based Gudermannian neural network to solve the eye surgery corneal model**  
Sabir Z., Umar M., Wahab H. A., Bhat S. A., ÜNLÜ C.  
Applied Soft Computing, vol.157, 2024 (SCI-Expanded)
- II. **PRICING EUROPEAN TWO-ASSET OPTION USING THE SPECTRAL METHOD WITH SECOND-KIND CHEBYSHEV POLYNOMIALS**  
Xu X., Aghdam Y. E., Farnam B., Jafari H., Masetshaba M. T., ÜNLÜ C.  
Fractals, vol.30, no.5, 2022 (SCI-Expanded)
- III. **Increased Severe Cases and New-Onset Type 1 Diabetes Among Children Presenting With Diabetic Ketoacidosis During First Year of COVID-19 Pandemic in Turkey**  
KIRAL E., KIREL B., Havan M., KESKİN M., Karaoglan M., Yildirim A., Kangin M., Talay M. N., Urun T., Altug U., et al.  
FRONTIERS IN PEDIATRICS, vol.10, 2022 (SCI-Expanded)
- IV. **Numerical Investigations of the Fractional-Order Mathematical Model Underlying Immune-Chemotherapeutic Treatment for Breast Cancer Using the Neural Networks**  
Sabir Z., Munawar M., Abdelkawy M. A., Raja M. A. Z., Unlu C., Jeelani M. B., Alnahdi A. S.  
FRACTAL AND FRACTIONAL, vol.6, no.4, 2022 (SCI-Expanded)
- V. **Neuro-evolution computing for nonlinear multi-singular system of third order Emden-Fowler equation**  
Sabir Z., Raja M. A. Z., Khalique C. M., Unlu C.  
MATHEMATICS AND COMPUTERS IN SIMULATION, vol.185, pp.799-812, 2021 (SCI-Expanded)
- VI. **New groundwater flow equation with its exact solution**  
Atangana A., Unlu C.  
SCIENTIA IRANICA, vol.23, no.4, pp.1837-1843, 2016 (SCI-Expanded)
- VII. **Local Fractional Laplace Variational Iteration Method for Solving Diffusion and Wave Equations on Cantor Sets within Local Fractional Operators**  
Jassim H. K., Unlu C., Moshokoa S. P., Khalique C. M.  
MATHEMATICAL PROBLEMS IN ENGINEERING, 2015 (SCI-Expanded)
- VIII. **Revised Variational Iteration Method for Solving Systems of Nonlinear Fractional-Order Differential Equations**  
Unlu C., Jafari H., Baleanu D.  
ABSTRACT AND APPLIED ANALYSIS, 2013 (SCI-Expanded)

## Articles Published in Other Journals

- I. **On the wave solutions to the TRLW equation**  
Ünlü C., Bulut H.  
ITM Web of conferences, vol.22, no.1033, pp.1-5, 2018 (Conference Book)
- II. **Exact solitary-wave special solutions for the nonlinear dispersive K(m,n) equations by means of the homotopy analysis method**  
Yıldırım A., Ünlü C., Mohyud-Din S.  
Applications and Applied Mathematics, pp.82-93, 2010 (Peer-Reviewed Journal)
- III. **On the solution of the vibration equation by the homotopy perturbation method**  
Yıldırım A., Ünlü C., Mohyud-Din S.  
Applications and Applied Mathematics, pp.24-33, 2010 (Peer-Reviewed Journal)

## Metrics

Publication: 11

Citation (WoS): 24

Citation (Scopus): 18

H-Index (WoS): 2

H-Index (Scopus): 3

## **Congress and Symposium Activities**

10 th International conference of numerical analysis and applied mathematics, Attendee, Kos,GREECE, Greece, 2012

9 th AIMS conference on dynamical sysems,differential equations and applications, Attendee, Orlando,USA, United States Of America, 2012

Spring southeastern section meeting of the american mathematical society, Attendee, Tampa,USA, United States Of America, 2012

International conference on applied analysis and algebra, Attendee, İstanbul, Turkey, 2011

7 th International conference on differential equations and dynamical systems, Attendee, Florida/Tampa,USA, United States Of America, 2010

## **Non Academic Experience**

Milli Eğitim Bakanlığı