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Personal Information

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Education Information

Doctorate, Ege University, Institute of Science, Mathematics, Turkey 2017 - 2022
Postgraduate, Ege University, Institute of Science, Mathematics, Turkey 2015 - 2017
Undergraduate, Ege University, Faculty of Science, Mathematics, Turkey 2011 - 2015

Dissertations

Doctorate, On the Solutions of Some Nonlinear Physical Equations with Fractional Order Derivative, Ege University, Institute of Science, Mathematics, 2022
Postgraduate, On the Semi-Analytical Solutions of Some Nonlinear Physical Equations, Ege University, Institute of Science, Mathematics, 2017

Research Areas

Mathematics

Academic Titles / Tasks

Assistant Professor, Marmara University, Faculty of Sciences, Department of Statistics, 2023 - Continues

Published journal articles indexed by SCI, SSCI, and AHCI

I. **On new analytical solutions of fractional systems in shallow water dynamics**
Bakicierler G., Misirli E.
REVISTA MEXICANA DE FISICA, vol.68, no.5, 2022 (SCI-Expanded)

II. **Analytic solutions of a (2+1)-dimensional nonlinear Heisenberg ferromagnetic spin chain equation**
Bakicierler G., Alfaqeih S., Misirli E.
PHYSICA A-STATISTICAL MECHANICS AND ITS APPLICATIONS, vol.582, 2021 (SCI-Expanded)

III. **Application of the modified simple equation method for solving two nonlinear time-fractional long water wave**
Bakicierler G., Alfaqeih S., Misirli E.
REVISTA MEXICANA DE FISICA, vol.67, no.6, 2021 (SCI-Expanded)

Articles Published in Other Journals

I. **Application of Double Shehu Transforms to Caputo Fractional Partial Differential Equations**
    Alfaqeih S., Bakicierler G., Misirli E.
    PUNJAB UNIVERSITY JOURNAL OF MATHEMATICS, vol.54, no.1, pp.1-13, 2022 (ESCI)

II. **NEW SOLUTION OF CONFORMABLE FORNBERG-WHITHAM DIFFERENTIAL EQUATION VIA CONFORMABLE SUMUDU DECOMPOSITION METHOD**
    Alfaqeih S., Bakicierler G., Misirli E.
    TWMS JOURNAL OF APPLIED AND ENGINEERING MATHEMATICS, vol.12, no.2, pp.714-723, 2022 (ESCI)

III. **Some New Traveling Wave Solutions of Nonlinear Fluid Models via the MSE Method**
    BAKICIERLER G., MISIRLI E.
    Fundamental journal of mathematics and applications (Online), vol.4, no.3, pp.187-194, 2021 (Peer-Reviewed Journal)

IV. **Conformable Double Sumudu Transform with Applications**
    Alfaqeihl S., Bakicierler G., Misirli E.
    JOURNAL OF APPLIED AND COMPUTATIONAL MECHANICS, vol.7, no.2, pp.578-586, 2021 (ESCI)

Papers Published in Refereed Scientific Meetings

I. **Exact TravelingWave Solutions of Two Fractional Systems in Fluid Dynamics via the Exponential Rational Function Method**
    BAKICIERLER G., Alfaqeih S., MISIRLI E.
    9th (Online) International Conference on Applied Analysis and Mathematical Modeling, Turkey, 11 June 2021

II. **Application of Conformable Double Sumudu Transform for Solving Conformable Integro-Differential Equations**
    Alfaqeih S., BAKICIERLER G., MISIRLI E.
    5th International Students Science Congress, Turkey, 21 May 2021

III. **Novel Numerical Approach for the Analytical Solutions of Conformable Nonlinear Waves in a Rotating Ocean (Conformable Gardner–Ostrovsky Model)**
    Alfaqeih S., BAKICIERLER G., MISIRLI E.
    The First Online Conference on Modern Fractional Calculus and Its Applications, Turkey, 04 December 2020

IV. **New Exact Solutions of a Dynamical Model Arising in Electromagnetic Waves**
    BAKICIERLER G., Alfaqeih S., MISIRLI E.
    FIRST ONLINE CONFERENCE ON MODERN FRACTIONAL CALCULUS AND ITS APPLICATIONS, Turkey, 04 December 2020

V. **THE MODIFIED SIMPLE EQUATION METHOD FOR NEW EXACT WAVE SOLUTIONS OF SOME NONLINEAR PHYSICAL EQUATIONS**
    BAKICIERLER G., MISIRLI E.
    2nd International Conference on Computational Mathematics and Engineering Sciences, Turkey, 20 May 2017

VI. **Modified Simple Equation Method and its Applications to Some Nonlinear Physical Equations**
    BAKICIERLER G., MISIRLI E.
    INTERNATIONAL CONFERENCE on RECENT ADVANCES in PURE AND APPLIED MATHEMATICS, Turkey, 11 May 2017