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Personal Information

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International Researcher IDs

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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**
Alfaqueih 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**
Alfaqueih 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**
Alfaqueih S., Bakicierler G., Misirli E.
JOURNAL OF APPLIED AND COMPUTATIONAL MECHANICS, vol.7, no.2, pp.578-586, 2021 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Exact Traveling Wave Solutions of Two Fractional Systems in Fluid Dynamics via the Exponential Rational Function Method**
BAKICIERLER G., Alfaqueih 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**
Alfaqueih 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)**
Alfaqueih 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., Alfaqueih 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