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Education Information

Doctorate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Mathematics, Turkey 2011 - 2020

Postgraduate, Marmara University, Institute for Graduate Studies in Pure and Applied Sciences, Department of Mathematics, Turkey 2006 - 2010

Undergraduate, Marmara University, Faculty of Arts and Sciences, Mathematics, Turkey 2001 - 2006

Research Areas

Integral Transformations, Computational Calculation, Special Functions

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Theory and applications on a new generalized Laplace-type integral transform**
ALBAYRAK D.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.46, no.4, pp.4363-4378, 2023 (SCI-Expanded)

II. **On some generalized integral transforms and Parseval-Goldstein type relations**
Albayrak D., Dernek N.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.50, no.2, pp.526-540, 2021 (SCI-Expanded)

III. **New intregral transform with generalized Bessel-Maitland function kernel and its applications**
Albayrak D., Dernek A., Dernek N., Uçar F.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.44, no.2, pp.1394-1408, 2021 (SCI-Expanded)

IV. **Theorems on Some Families of Fractional Differential Equations and Their Applications**
Dernek A. N., Bozkurt G., Albayrak D.
APPLICATIONS OF MATHEMATICS, vol.64, no.5, pp.557-579, 2019 (SCI-Expanded)

V. **Certain inversion and representation formulas for q-sumudu transforms**
Albayrak D., Purohit S. D., UÇAR F.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.43, no.5, pp.699-713, 2014 (SCI-Expanded)

VI. **On q-Analogues of Sumudu Transform**
Albayrak D., Purohit S. D., UÇAR F.

ANALELE STIINTIFICE ALE UNIVERSITATII OVIDIUS CONSTANTA-SERIA MATEMATICA, vol.21, no.1, pp.239-259, 2013 (SCI-Expanded)

VII. **On q-Sumudu Transforms of Certain q-Polynomials**
Albayrak D., Purohit S. D., UÇAR F.
FILOMAT, vol.27, no.2, pp.411-427, 2013 (SCI-Expanded)

VIII. **On q-Laplace type integral operators and their applications**
Uçar F., Albayrak D.
JOURNAL OF DIFFERENCE EQUATIONS AND APPLICATIONS, vol.18, no.6, pp.1001-1014, 2012 (SCI-Expanded)

Articles Published in Other Journals

I. **Some Parseval-Goldstein Type Theorems For Generalized Integral Transforms**
Albayrak D.
Mathematical Sciences and Applications E-Notes, vol.12, no.2, pp.81-92, 2024 (Peer-Reviewed Journal)

II. **Evaluating complex inverse formulas for q-Sumudu transforms**
ALBAYRAK D., UÇAR F., Purohit S. D.
WSEAS Transactions on Mathematics, vol.23, pp.16-25, 2024 (Scopus)

III. **Some Relations for the Generalized G̃n,P̃n Integral Transforms and Riemann-Liouville, Weyl Integral Operators**
ALBAYRAK D., DERNEK N.
Gazi University Journal of Science, vol.36, pp.362-381, 2023 (ESCI)

IV. **SOME PARSEVAL-GOLDSTEIN TYPE IDENTITIES WITH ILLUSTRATIVE EXAMPLES**
KARATAŞ H. B., ALBAYRAK D., UÇAR F.
Proceedings of the Institute of Mathematics and Mechanics, vol.49, no.1, pp.60-68, 2023 (Scopus)

V. **On q-Laplace and q-Sumudu transforms of a product of generalized q-Bessel functions**
ALBAYRAK D., Purohit S. D., UÇAR F.
Mathematics in Engineering, Science and Aerospace (MESA), vol.11, no.2, pp.355-369, 2020 (Scopus)

VI. **ON q-INTEGRAL TRANSFORMS AND THEIR APPLICATIONS**
Albayrak D., Purohit S. D., UÇAR F.
BULLETIN OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol.4, no.2, pp.103-115, 2012 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

I. **Laplace Type Integral Transforms for Solving Generalized Katugampola Fractional Kinetic Equations Involving Certain Class of Functions**
ALBAYRAK D.
4 th International Conference on Mathematical and Related Sciences, Turkey, 22 - 24 October 2021

II. **ON INEQUALITIES OF SOME INTEGRAL TRANSFORMS**
ALBAYRAK D., ERDOĞAN E., KARATAŞ H. B., UÇAR F.
10th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2021), 25 August 2021

III. **Genelleştirilmiş Bessel-Maitland İntegral Dönüşümü Üzerine Notlar**
ALBAYRAK D., DERNEK N.
32. Ulusal Matematik Sempozyumu, Samsun, Turkey, 31 August - 03 September 2019

IV. **A New Laplace-Type Integral Transform and Its Applications**
ALBAYRAK D., AYLIKCI F., DERNEK N.
3rd International Conference on Mathematical Advances and Applications (ICOMAA-2020), 24 - 27 June 2020

V. **Genelleştirilmiş Kesirli ˙Integraller ile İlgili Bazı Bağıntılar**
DERNEK N., ALBAYRAK D.

14. Ankara Matematik Günleri(AMG 2019), Ankara, Turkey, 28 - 29 June 2019

VI.   **Some Parseval-Goldstein type relations for generalized Bessel-Maitland Transform**
        ALBAYRAK D.
        6. Kadın Matematikçiler Dernegi Çalıştayı, Konya, Turkey, 26 - 28 April 2019

VII.   **L_2 Dönüşümünün q-Benzeri**
        ALBAYRAK D.
        XXI. ULUSAL MATEMATİK SEMPOZYUMU, İstanbul, Turkey, 1 - 04 September 2008

VIII.   **On q-Laplace Type Integral Operators and Their Applications**
        UÇAR F., ALBAYRAK D.
        The 20th International Congress of The Jangjeon Mathematical Society, Bursa, Turkey, 21 - 23 August 2008

Supported Projects

Albayrak D., Project Supported by Higher Education Institutions, Fractional Reaction and Fractional Kinetic Equations for a Certain Type of Function Class, 2023 - 2024

Metrics

Publication: 22
Citation (WoS): 66
Citation (Scopus): 116
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H-Index (Scopus): 5