

Assoc. Prof. DURMUŞ ALBAYRAK

Personal Information

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International Researcher IDs

ScholarID: D5VH6OIAAAAJ

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Publons / Web Of Science ResearcherID: AAD-5139-2020

ScopusID: 55352571700

Yoksis Researcher ID: 328127

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

Academic Titles / Tasks

Assistant Professor, Marmara University, Faculty of Sciences, Department of Mathematics, 2022 - Continues

Lecturer, National Defense University, 2020 - 2022

Courses

Doctorate

Hipergeometrik Fonksiyonlar II, Doctorate, 2024 - 2025

Kesirli Hesap I, Doctorate, 2024 - 2025

Görüntü İşleme I, Doctorate, 2024 - 2025

Kesirli Hesap II, Doctorate, 2023 - 2024

Hipergeometrik Fonksiyonlar I, Doctorate, 2024 - 2025

Sayısal Sinyal İşleme I, Doctorate, 2024 - 2025

Kesirli Hesap I, Doctorate, 2023 - 2024

Postgraduate

İntegral Dönüşümleri I, Postgraduate, 2024 - 2025

İntegral Dönüşümleri II, Postgraduate, 2023 - 2024

İntegral Dönüşümleri II, Postgraduate, 2022 - 2023

İntegral Dönüşümleri I, Postgraduate, 2023 - 2024

İntegral Dönüşümleri I, Postgraduate, 2022 - 2023

Undergraduate

Analiz IV, Undergraduate, 2024 - 2025

Kompleks Fonksiyonlar Teorisi II, Undergraduate, 2023 - 2024

Analiz IV, Undergraduate, 2023 - 2024

Analiz III, Undergraduate, 2024 - 2025

Özel Fonksiyonlara Giriş, Undergraduate, 2024 - 2025

Analiz IV, Undergraduate, 2022 - 2023

Kompleks Fonksiyonlar Teorisi I, Undergraduate, 2023 - 2024

Analiz III, Undergraduate, 2023 - 2024

Analiz III, Undergraduate, 2022 - 2023

Kompleks Fonksiyonlar Teorisi II, Undergraduate, 2021 - 2022

Özel Fonksiyonlara Giriş, Undergraduate, 2022 - 2023

Sayısal Yöntemler, Undergraduate, 2021 - 2022

Lineer Cebir, Undergraduate, 2020 - 2021

Matematik II, Undergraduate, 2020 - 2021

Diferansiyel Denklemler, Undergraduate, 2021 - 2022

Matematik II, Undergraduate, 2019 - 2020

Matematik I, Undergraduate, 2020 - 2021

Robotiğe Giriş, Undergraduate, 2020 - 2021

Diferansiyel Denklemler, Undergraduate, 2020 - 2021

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. **The finite β -Laplace integral transform and its applications**
Gaur A., Agarwal G., ALBAYRAK D., UÇAR F.
Advances in Mathematical Sciences and Applications, vol.33, no.2, pp.683-698, 2024 (Peer-Reviewed Journal)
- II. **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)
- III. **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)
- IV. **A new modified integral transform and its applications**
BİÇER K., DERNEK N., ALBAYRAK D., AYLIKCI F.
Montes Taurus Journal of Pure and Applied Mathematics, vol.1, no.6, pp.85-101, 2024 (Peer-Reviewed Journal)
- V. **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)
- VI. **Some Relations for the Generalized G_n, P_n Integral Transforms and Riemann-Liouville, Weyl Integral Operators**
ALBAYRAK D., DERNEK N.
Gazi University Journal of Science, vol.36, pp.362-381, 2023 (ESCI)
- VII. **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)
- VIII. **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)

Papers Published in Refereed Scientific Meetings

- I. **Trigonometric Kratzel Functions: Definition, Properties, and Applications**
ALBAYRAK D.
Approximation Theory and Special Functions ATSF 2024 Conference - 8th Series, Ankara, Turkey, 04 September 2024
- II. **Applications of generalized Stieltjes-type integral transform**
Salimov R., ALBAYRAK D.
Seventh International Conference on Analysis and Applied Mathematics (ICAAM 2024), Antalya, Turkey, 23 September 2024
- III. **Solution Of Fractional Reaction And Kinetic Equations For Certain Type Special Function Class**
ALBAYRAK D.
22nd International Conference of Numerical Analysis and Applied Mathematics, Girit, Greece, 11 September 2024
- IV. **Genelleştirilmiş Stieltjes Tipi İntegral Dönüşümü**
Salimov R., ALBAYRAK D.
15. Ankara Matematik Günleri, Ankara, Turkey, 23 May 2024
- V. **Kesirli Reaksiyon Denklemi ve Kesirli Kinetik Denklemleri Üzerine**
YAŞAR E., ALBAYRAK D.
35. ULUSAL MATEMATİK SEMPOZYUMU, Turkey, 04 September 2023
- VI. **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

VII. 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

VIII. Genelleştirilmiş Bessel-Maitland İntegral Dönüşümü Üzerine Notlar

ALBAYRAK D., DERNEK N.

32. Ulusal Matematik Sempozyumu, Samsun, Turkey, 31 August - 03 September 2019

IX. 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

X. Genelleştirilmiş Kesirli İntegraller ile İlgili Bazı Bağlıntılar

DERNEK N., ALBAYRAK D.

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

XI. Some Parseval-Goldstein type relations for generalized Bessel-Maitland Transform

ALBAYRAK D.

6. Kadın Matematikçiler Derneği Çalıştayı, Konya, Turkey, 26 - 28 April 2019

XII. L_2 Dönüşümünün q -Benzeri

ALBAYRAK D.

XXI. ULUSAL MATEMATİK SEMPOZYUMU, İstanbul, Turkey, 1 - 04 September 2008

XIII. On q -Laplace Type Integral Operators and Their Applications

UÇAR F., ALBAYRAK D.

The 20th International Congress of The Jangeon 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: 29

Citation (WoS): 66

Citation (Scopus): 120

H-Index (WoS): 4

H-Index (Scopus): 5