Assoc. Prof. MERVE ESRA TÜRKAY

Personal Information

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Education Information

Doctorate, Kahramanmaras Sutcu Imam University, Institute Of Science, Turkey 2015 - 2018
Doctorate, Ankara University, Institute Of Science, Turkey 2014 - 2015
Postgraduate, Ankara University, Institute Of Science, Turkey 2012 - 2014
Undergraduate, Ankara University, Faculty Of Science, Department Of Mathematics, Turkey 2008 - 2012

Dissertations

Doctorate, SOME HERMİTE-HADAMARD TYPE INTEGRAL INEQUALITIES FOR GENERALIZED FRACTIONAL INTEGRALS, Kahramanmaras Sutcu Imam University, Institute Of Science, 2018
Postgraduate, Kompleks düzlemde carleson eğrileri üzerinde tanımlımorrey uzaylarında maksimal operatör, kesirli maksimaloperatör, potansiyel operatör ve cauchy singüler integral operatörünün sınırlılığı, Ankara University, Institute Of Science, 2014

Research Areas

Natural Sciences

Academic Titles / Tasks

Assistant Professor, Sivas Cumhuriyet University, Fen Fakültesi, Matematik Bölümü, 2020 - Continues
Research Assistant PhD, Sivas Cumhuriyet University, Fen Fakültesi, Matematik Bölümü, 2018 - 2020
Research Assistant, Sivas Cumhuriyet University, Fen Fakültesi, Matematik Bölümü, 2015 - 2018

Courses

Analiz - I, Undergraduate, 2019 - 2020
Analiz - II, Undergraduate, 2018 - 2019
Analiz - II, Undergraduate, 2018 - 2019

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Some estimates in Lp (Γ) for maximal commutator and commutator of maximal function**
TÜRKAY M. E., Mursaleen M.
Filomat, vol.38, no.1, pp.1-15, 2024 (SCI-Expanded)

II. **THE SPECTRUM OF q-CESARO MATRICES ON c AND ITS VARIOUS SPECTRAL DECOMPOSITION FOR 0 < q < 1**
DURNA N., TÜRKAY M. E.
OPERATORS AND MATRICES, vol.15, no.3, pp.795-813, 2021 (SCI-Expanded)

III. **The Spectrum and Fine Spectrum of q-Cesàro Matrices with 0q1 on c0**
Yıldırım M. E.
Numerical Functional Analysis And Optimization, vol.41, no.3, pp.361-377, 2020 (SCI-Expanded)

Articles Published in Other Journals

I. **The spectrum and some subdivisions of the spectrum of the generalized α q -Cesàro operators on p (1 < p < ∞)**
TÜRKAY M. E.
Asian-European Journal of Mathematics, vol.16, no.9, 2023 (ESCI)

II. **Some New Estimates for Maximal Commutator and Commutator of Maximal Function in L_{p,λ}(Γ)**
TÜRKAY M. E.
Journal of New Theory, vol.2022, no.40, pp.74-81, 2022 (Peer-Reviewed Journal)

III. **Some spectrum estimates of the αq-Cesàro matrices with 0<α,q<1 on c$_0$**
TÜRKAY M. E.
Konuralp Journal of Mathematics, vol.10, no.2, pp.313-325, 2022 (Peer-Reviewed Journal)

IV. **The Generalized Hermite-Hadamard-Fejer Type Inequalities for Generalized Fractional Integral Operators**
TÜRKAY M. E., SARIKAYA M. Z., YILDIRIM H.
Konuralp Journal of Mathematics, vol.10, no.1, pp.79-86, 2022 (Peer-Reviewed Journal)

V. **SOME HERMITE-HADAMARD TYPE INEQUALITIES FOR CO-ORDINATED CONVEX FUNCTIONS VIA GENERALIZED FRACTIONAL INTEGRALS**
TÜRKAY M. E., SARIKAYA M. Z., BUDAK H., YILDIRIM H.
Journal of Applied Mathematics and Computing with application, vol.2, no.1, pp.1-21, 2021 (Peer-Reviewed Journal)

VI. **On some special functions for conformable fractional integrals**
SARIKAYA M. Z., AKKURT A., BUDAK H., TÜRKAY M. E., YILDIRIM H.
Konuralp Journal of Mathematics, vol.8, no.2, pp.376-383, 2020 (Peer-Reviewed Journal)

VII. **Hermite-Hadamard's Inequalities for Conformable Fractional Integrals**
SARIKAYA M. Z., AKKURT A., BUDAK H., YILDIRIM M. E., YILDIRIM H.
An International Journal of Optimization and Control: Theories Applications, vol.9, no.1, pp.46-59, 2019 (Scopus)

VIII. **Non-Isotropic Potential Theoretic Inequality**
YILDIRIM M. E., AKKURT A., YILDIRIM H.
Cumhuriyet Science Journal, vol.9, no.2, pp.325-338, 2018 (Peer-Reviewed Journal)

IX. **On the Hadamard's type Inequalities for Convex Functions via Conformable Fractional Integrals**
YILDIRIM M. E., Akkurt A., Yildirim H.
JOURNAL OF INEQUALITIES AND SPECIAL FUNCTIONS, vol.9, no.3, pp.1-10, 2018 (ESCI)

X. **A NEW GENERALIZED FRACTIONAL DERIVATIVE AND INTEGRAL**
AKKURT A., YILDIRIM M. E., YILDIRIM H.
Konuralp Journal of Mathematics, vol.5, no.2, pp.248-259, 2017 (Peer-Reviewed Journal)

XI. **On Some Integral Inequalities for Conformable Fractional Integrals**
AKKURT A., YILDIRIM M. E., YILDIRIM H.
Asian Journal of Mathematics and Computer Research, vol.15, no.3, pp.205-212, 2017 (Peer-Reviewed Journal)

XII. **On Some Integral Inequalities for Twice Diferentiable Convex and Quasi Convex Functions viak Fractional Integrals**
YILDIRIM M. E., AKKURT A., YILDIRIM H.
British Journal of Mathematics & Computer Science, vol.16, no.6, pp.1-11, 2016 (Peer-Reviewed Journal)

XIII. **On some integral inequalities for k h Riemann Liouville fractional integral**
AKKURT A., YILDIRIM M. E., YILDIRIM H.
New Trends in Mathematical Science, vol.4, no.1, pp.138-146, 2016 (Peer-Reviewed Journal)

XIV. **Generalized Qi s Integral Inequality**
YILDIRIM M. E., AKKURT A., YILDIRIM H.
Cumhuriyet Science Journal, vol.37, no.1, pp.12-19, 2016 (Peer-Reviewed Journal)

XV. **Hermite Hadamard type inequalities for co ordinated m m Convex Functions via Fractional Integrals**
YILDIRIM M. E., AKKURT A., YILDIRIM H.
Contemporary Analysis and Applied Mathematics, vol.4, no.1, pp.48-63, 2016 (Peer-Reviewed Journal)

XVI. **ON SOME INTEGRAL INEQUALITIES FOR GENERALIZED FRACTIONAL INTEGRAL**
Akkurt A., Yıldırım M. E., Yıldırım H.
Advances in Inequalities and Applications, vol.2016, no.17, 2016 (Peer-Reviewed Journal)

XVII. **On Hermite Hadamard Inequalities for Differentiable Preinvex Functions via Fractional Integrals**
AKKURT A., YILDIRIM M. E., YILDIRIM H.
British Journal of Mathematics & Computer Science, 2016 (Peer-Reviewed Journal)

XVIII. **SOME INTEGRAL INEQUALITIES FOR FUNCTIONS WHOOSE SECOND DERIVATIVES ARE CONVEX BY USING FRACTIONAL INTEGRALS**
YILDIRIM M. E., AKKURT A., YILDIRIM H.
Konuralp Journal of Mathematics, 2016 (Peer-Reviewed Journal)

XIX. **On the boundedness of the maximal operator and Riesz potential in the modified Morrey spaces**
AYKOL YÜCE C., YILDIRIM M. E.
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.63, no.2, pp.1-11, 2014 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **SOME HERMİTE-HADAMARD INEQUALITIES FOR PREINVEX FUNCTIONS VIA CONFORMABLE FRACTIONAL INTEGRALS**
Türkay M. E., Durna N.
1. ULUSLARARASI FEN VE UYGULAMALI BİLİMLER KONGRESİ, Adıyaman, Turkey, 13 June 2021

II. **BOUNDEDNESS OF THE GENERALIZED FRACTIONAL INTEGRAL OPERATORS**
TÜRKAY M. E.
10th International Conference of Strategic Research on Scientific Studies and Education (ICoSReSSE) 2019, 17 - 18 June 2019

III. **NECESSARY AND SUFFICIENT CONDITION FOR THE BOUNDEDNESS OFTHE GENERALIZED FRACTIONAL INTEGRAL OPERATOR**
TÜRKAY M. E.
5th International Conference on Engineering and Natural Sciences (ICENS 2019), 12 - 16 June 2019

IV. **ON SOME MINKOWSKI TYPE INEQUALITIES**
TÜRKAY M. E., DURNA N.
5th International Conference on Engineering and Natural Sciences (ICENS 2019), 12 - 16 June 2019

V. **The Generalized Hermite-Hadamard Type Inequalities for Caputo k-Fractional Derivative**
YILDIRIM M. E., YILDIRIM H.
International Conference on Mathematics and Mathematics Educations (ICMME-2018), 27 - 29 July 2018

VI. **On Minkowski and Inverse Minkowski Inequalities Via Generalized Fractional Integrals**
YILDIRIM M. E., DURNA N., Kilinc S., YILDIRIM H.

International Conference on Mathematics and Mathematics Educations (ICMME-2018), 27 - 29 July 2018

VII. **Some Ostrowski type fractional integral inequalities for s-Godunova-Levin functions via generalized k-fractionalintegrals**
YILDIRIM M. E., YILDIRIM H.
4th. International Symposium on Multidisciplinary Studies (ISMS)Paris-France, 27 - 28 April 2018

VIII. **Some Hermite-Hadamard Typre Inequalities Via Midpoind Formula For s-Convex Functions**
YILDIRIM M. E., DURNA N., AKKURT A., YILDIRIM H.
2. International Science Symposium Science Festival, 5 - 08 September 2017

IX. **On Generalized (k,s) -Fractional Calculus**
YILDIRIM M. E., DURNA N., AKKURT A., YILDIRIM H.
2. International Science Symposium Science Festival, 5 - 08 September 2017

X. **Some inequalities involving \left(\alpha ,k\right) -gamma\ and\ \left(\alpha ,k\right) -beta functions for conformable fractional**
AKKURT A., YILDIRIM M. E., YILDIRIM H.
International Conference on Mathematics and Mathematics Education (ICMME-2017), Şanlıurfa, Turkey, 11 - 13 May 2017

XI. **The Midpoint Type Inequalities for φ-Convex Functions viaFractional Integral Operators**
YILDIRIM M. E., AKKURT A., YILDIRIM H.
nternational Conference on Mathematics and Mathematics Education (ICMME-2017), Şanlıurfa, Turkey, 11 - 13 May 2017

XII. **A new Generalized fractional derivative and integral**
AKKURT A., YILDIRIM M. E., YILDIRIM H.
International Conference on Mathematics and Mathematics Education (ICMME-2017), Şanlıurfa, Turkey, 11 - 13 May 2017

XIII. **Inequalities Involving the (alpha,k)-Gamma and (alpha,k)-Beta Functions**
AKKURT A., TÜRKAY M. E., YILDIRIM H.
International Conference on Mathematics and Mathematics Education (ICMME-2017) , 2017, 11 - 13 May 2017

XIV. **On Some Integral Inequalities for Convex Functions via conformable Fractional Integrals**
YILDIRIM M. E., AKKURT A., YILDIRIM H.
Xth International Statistics Days Conference – ISDC'2016 (IGS 2016), 7 - 09 October 2016

XV. **On Feng Qi type Integral Inequalities for Conformable Fractional Integrals**
AKKURT A., YILDIRIM M. E., YILDIRIM H.
3rd International Intuitionistic Fuzzy Sets and Contemporary Mathematics (IFSCOM2016), 29 August - 01 September 2016

XVI. **Non Isotropic Potential Theoretic Inequality**
YILDIRIM M. E., AKKURT A., YILDIRIM H.
International Conference on Mathematics and Mathematics Education (ICMME-2016), 12 - 14 May 2016

Supported Projects

Durna N., Türkay M. E., Project Supported by Higher Education Institutions, U(r,0,s) üst üçgensel bant matrisinin Hahn dizi uzayı üzerindeki spektrumu ve fine spektrumu., 2019 - 2019

Durna N., Türkay M. E., Yıldırım H., Project Supported by Higher Education Institutions, Genelleştirimiş Kesirli İntegraller Yardımıyla Minkowski ve Ters Minkowski Eşitsizlikleri Üzerine, 2018 - 2019

Metrics

Publication: 38
Citation (WoS): 16

Citation (Scopus): 27
H-Index (WoS): 3
H-Index (Scopus): 3

Scholarships

Tübitak 2211-B, TUBITAK, 2014 - 2018