

Prof. AYHAN ŐERBETŐİ

Personal Information

Email: serbetci@ankara.edu.tr

Web: <https://avesis.ankara.edu.tr/serbetci>

International Researcher IDs

ORCID: 0000-0001-6362-7044

Publons / Web Of Science ResearcherID: AAK-3677-2020

Yoksis Researcher ID: 32126

Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 1987 - 1991

Postgraduate, Inonu University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), Turkey 1985 - 1987

Undergraduate, Fırat University, Faculty Of Science, Department Of Mathematics, Turkey 1976 - 1980

Dissertations

Doctorate, Açık riemann yüzeylerinin altcümleleri üzerinde meromorfik fonksiyonların cisimleri, Ankara University, Fen Bilimleri Enstitüsü, Matematik (Dr), 1991

Postgraduate, Açık Riemann Yüzeylerinin Boş olmayan Herhangi Alt Cümlelerinin Konform Eşdeğerliliğinin Bir Cebirsel Karakterizasyonu., Inonu University, Protetik Diş Tedavisi Anabilim Dalı, Matematik (YI) (Tezli), 1987

Research Areas

Fourier Analysis

Academic Titles / Tasks

Professor, Ankara University, Fen Fakültesi, Matematik Bölümü, 2009 - Continues

Associate Professor, Ankara University, Fen Fakültesi, Matematik Bölümü, 2004 - 2009

Assistant Professor, Ankara University, Fen Fakültesi, Matematik Bölümü, 1991 - 2004

Research Assistant, Ankara University, Fen Fakültesi, Matematik Bölümü, 1988 - 1991

Research Assistant, Inonu University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 1985 - 1988

Academic and Administrative Experience

Head of Department, Cankiri Karatekin University, Faculty Of Science, Department Of Mathematics, 2018 - 2021

Dean, Cankiri Karatekin University, Faculty Of Science, 2018 - 2020

Ankara University, 2009 - 2015

Advising Theses

ŞERBETÇİ A., The boundedness of maximal, potential and singular integral operators in grand lebesgue spaces, Postgraduate, Z.ÇAKIR(Student), 2016

ŞERBETÇİ A., Genelleştirilmiş kesirli integral operatörlerinin genelleştirilmiş Morrey uzaylarında sınırlılığı, Doctorate, A.KÜÇÜKASLAN(Student), 2015

ŞERBETÇİ A., Genelleştirilmiş lokal Morrey uzaylarında kaba çekirdekli potansiyel tipli bazı altlineer operatörlerin ve komütatörlerinin sınırlılığı, Doctorate, F.GÜRBÜZ(Student), 2015

ŞERBETÇİ A., Kompleks düzlemde carleson eğrileri üzerinde tanımlı morrey uzaylarında maksimal operatör, kesirli maksimal operatör, potansiyel operatör ve cauchy singüler integral operatörünün sınırlılığı, Postgraduate, M.ESRA(Student), 2014

ŞERBETÇİ A., Genelleştirilmiş morrey-lorentz uzayları ve bu uzaylarda maksimal operatörlerin sınırlılığı, Doctorate, C.AYKOL(Student), 2013

ŞERBETÇİ A., Genelleştirilmiş ağırlıklı Morrey uzaylarında bir sınıf altlineer operatörlerin sınırlılığı ve bazı uygulamaları, Doctorate, T.KARAMAN(Student), 2012

ŞERBETÇİ A., Fourier-Bessel (Hankel) dönüşümüne karşılık gelen bazı fonksiyon uzayları, Postgraduate, F.DERİNGÖZ(Student), 2011

ŞERBETÇİ A., Genelleştirilmiş Morrey uzaylarında maksimal, potansiyel ve singüler integral operatörlerin sınırlılığı, Postgraduate, B.ATAY(Student), 2011

ŞERBETÇİ A., Morrey uzaylarında hardy-littlewood maksimal operatörü ve riesz potansiyelinin sınırlılığı, Postgraduate, F.GÜRBÜZ(Student), 2011

ŞERBETÇİ A., Yıldızıl ve konveks fonksiyonlar için bazı kriterler, Postgraduate, M.ŞAN(Student), 2010

ŞERBETÇİ A., Lorentz uzaylarında bessel diferensiyel operatörüne karşılık gelen maksimal ve kesirli maksimal operatörlerin sınırlılığı, Doctorate, C.BOLAT(Student), 2009

ŞERBETÇİ A., B-konvolüsyonlar için O'Neil tipi eşitsizlik ve bazı uygulamaları, Postgraduate, A.KÜÇÜKASLAN(Student), 2009

ŞERBETÇİ A., $L_p, q, y(R_n, +)$ Lorentz uzaylarında B-maksimal ve kesirli B-maksimal fonksiyonlar, C.AYKOL(Student), 2008

ŞERBETÇİ A., $L_{p,q,\gamma}(R_n, +)$ Lorentz uzaylarında B-maksimal ve kesirli B-maksimal fonksiyonlar, Postgraduate, C.AYKOL(Student), 2008

ŞERBETÇİ A., Sobolev uzaylarında singüler integral operatörlerinin sınırlılığı, Postgraduate, T.KARAMAN(Student), 2007

ŞERBETÇİ A., Laplace-Bessel diferensiyel operatörüne karşılık gelen genelleştirilmiş maksimal fonksiyon ve genelleştirilmiş Riesz potansiyeli, Postgraduate, H.KILIÇ(Student), 2007

ŞERBETÇİ A., Ba uzayları üzerinde Hilbert ve Riesz dönüşümleri, Postgraduate, E.ASLAN(Student), 2005

ŞERBETÇİ A., Cauchy tipi integraller ve analitik fonksiyonlar için sınır değer problemleri, Postgraduate, M.BİLGİ(Student), 2003

ŞERBETÇİ A., Poisson ve sonine operatörleri ve inversleri, Postgraduate, Ç.ÖZTÜRKLER(Student), 2000

ŞERBETÇİ A., Riemann yüzeylerinin örtü yüzeyleri ve örtü dönüşümlerinin grubu, Postgraduate, M.ÇİTİL(Student), 1996

ŞERBETÇİ A., Analitik fonksiyonların nüvelerinin demetleri, Postgraduate, M.BAŞER(Student), 1996

ŞERBETÇİ A., PSL (2,IR) ve fuchs grupları, Postgraduate, T.SAFFAT(Student), 1995

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Maximal and Calderón–Zygmund operators on the local variable Morrey–Lorentz spaces and some applications**
Kucukaslan A., Guliyev V. S., Aykol C., Serbetci A.
Applicable Analysis, vol.102, no.2, pp.406-415, 2023 (SCI-Expanded)
- II. **Commutators of parabolic fractional integrals with variable kernels in vanishing generalized variable Morrey spaces**
Ekincioglu I., Khaligova S. Z., Serbetci A.
POSITIVITY, vol.26, no.5, 2022 (SCI-Expanded)
- III. **Multilinear commutators of Calderon-Zygmund operator on generalized variable exponent Morrey**

spaces

Ekincioglu I., Keskin C., Serbetci A.

POSITIVITY, vol.25, no.4, pp.1551-1567, 2021 (SCI-Expanded)

- IV. **Riesz potential in the local Morrey-Lorentz spaces and some applications**
Guliyev V. S., Kucukaslan A., AYKOL KOCAKUŞAKLI C., ŞERBETÇİ A.
GEORGIAN MATHEMATICAL JOURNAL, vol.27, no.4, pp.557-567, 2020 (SCI-Expanded)
- V. **On Hardy Inequality in Variable Lebesgue Spaces with Mixed Norm**
Bandaliyev R. A., ŞERBETÇİ A., Hasanov S. G.
INDIAN JOURNAL OF PURE & APPLIED MATHEMATICS, vol.49, no.4, pp.765-782, 2018 (SCI-Expanded)
- VI. **Boundedness of some sublinear operators and their commutators on generalized local Morrey spaces**
Balakishiyev A. S., Gadjieva E. A., Gurbuz F., ŞERBETÇİ A.
COMPLEX VARIABLES AND ELLIPTIC EQUATIONS, vol.63, no.11, pp.1620-1641, 2018 (SCI-Expanded)
- VII. **Two weighted inequalities for B-fractional integrals**
Eroglu A., Hajibayov M. G., ŞERBETÇİ A.
JOURNAL OF INEQUALITIES AND APPLICATIONS, vol.2016, 2016 (SCI-Expanded)
- VIII. **Maximal operator and Calderon-Zygmund operators in local Morrey-Lorentz spaces**
Guliyev V. S., Aykol C., Kucukaslan A., ŞERBETÇİ A.
Integral Transforms and Special Functions, vol.27, no.11, pp.866-877, 2016 (SCI-Expanded)
- IX. **The boundedness of Hilbert transform in the local Morrey-Lorentz spaces**
Aykol C., Guliyev V. S., Kucukaslan A., ŞERBETÇİ A.
Integral Transforms and Special Functions, vol.27, no.4, pp.318-330, 2016 (SCI-Expanded)
- X. **Sublinear operators with rough kernel generated by Calderon-Zygmund operators and their commutators on generalized local Morrey spaces**
Balakishiyev A. S., Guliyev V. S., Gurbuz F., ŞERBETÇİ A.
JOURNAL OF INEQUALITIES AND APPLICATIONS, vol.2015, pp.1-18, 2015 (SCI-Expanded)
- XI. **Generalized Fractional Integral Operators on Generalized Local Morrey Spaces**
Guliyev V. S., Ismayilova A. F., Kucukaslan A., ŞERBETÇİ A.
JOURNAL OF FUNCTION SPACES, vol.2015, 2015 (SCI-Expanded)
- XII. **Commutators of sublinear operators generated by Caldern-Zygmund operator on generalized weighted Morrey spaces**
Guliyev V. S., Karaman T., Mustafayev R. C., ŞERBETÇİ A.
CZECHOSLOVAK MATHEMATICAL JOURNAL, vol.64, no.2, pp.365-386, 2014 (SCI-Expanded)
- XIII. **BOUNDEDNESS OF SUBLINEAR OPERATORS GENERATED BY CALDERON-ZYGMUND OPERATORS ON GENERALIZED WEIGHTED MORREY SPACES**
Karaman T., GULIYEV V. S., ŞERBETÇİ A.
ANALELE STIINTIFICE ALE UNIVERSITATII AL I CUZA DIN IASI-SERIE NOUA-MATEMATICA, vol.60, no.1, pp.227-244, 2014 (SCI-Expanded)
- XIV. **Boundedness of the maximal operator in the local Morrey-Lorentz spaces**
AYKOL KOCAKUŞAKLI C., GULIYEV V. S., ŞERBETÇİ A.
JOURNAL OF INEQUALITIES AND APPLICATIONS, vol.2013, 2013 (SCI-Expanded)
- XV. **THE STEIN-WEISS TYPE INEQUALITIES FOR THE B-RIESZ POTENTIALS**
Gadjiev A. D., Guliyev V. S., ŞERBETÇİ A., Guliyev E. V.
JOURNAL OF MATHEMATICAL INEQUALITIES, vol.5, no.1, pp.87-106, 2011 (SCI-Expanded)
- XVI. **The boundedness of the generalized anisotropic potentials with rough kernels in the Lorentz spaces**
GULIYEV V. S., ŞERBETÇİ A., EKİNCİOĞLU İ.
INTEGRAL TRANSFORMS AND SPECIAL FUNCTIONS, vol.22, no.12, pp.919-935, 2011 (SCI-Expanded)
- XVII. **Stein-Weiss inequalities for the fractional integral operators in Carnot groups and applications**
Guliyev V. S., Mustafayev R. C., ŞERBETÇİ A.
COMPLEX VARIABLES AND ELLIPTIC EQUATIONS, vol.55, no.8-10, pp.847-863, 2010 (SCI-Expanded)
- XVIII. **Meda Inequality for Rearrangements of the Convolution on the Heisenberg Group and Some**

Applications

Guliyev V. S., ŞERBETÇİ A., Guner E., Balci S.

JOURNAL OF INEQUALITIES AND APPLICATIONS, vol.2009, 2009 (SCI-Expanded)

- XXIX. **ON THE BOUNDEDNESS OF FRACTIONAL B-MAXIMAL OPERATORS IN THE LORENTZ SPACES**
 $L_{p,q,\gamma}(\mathbb{R}^n)$
AYKOL KOCAKUŞAKLI C., ŞERBETÇİ A.
ANALELE STIINTIFICE ALE UNIVERSITATII OVIDIUS CONSTANTA-SERIA MATEMATICA, vol.17, no.2, pp.27-38, 2009 (SCI-Expanded)
- XX. **Necessary and Sufficient Conditions for the Boundedness of Genuine Singular Integral Operators in Local Morrey-Type Spaces**
Burenkov V. I., Guliev V. S., Tararykova T. V., ŞERBETÇİ A.
DOKLADY MATHEMATICS, vol.78, no.2, pp.651-654, 2008 (SCI-Expanded)
- XXI. **On the rearrangement estimates and the boundedness of the generalized fractional integrals associated with the Laplace-Bessel differential operator**
Guliyev V. S., Safarov Z. V., ŞERBETÇİ A.
ACTA MATHEMATICA HUNGARICA, vol.119, no.3, pp.201-217, 2008 (SCI-Expanded)
- XXII. **Inequality of O'Neil-type for convolutions associated with the Laplace-Bessel differential operator and applications**
Guliyev V. S., ŞERBETÇİ A., Safarov Z. V.
MATHEMATICAL INEQUALITIES & APPLICATIONS, vol.11, no.1, pp.99-112, 2008 (SCI-Expanded)
- XXIII. **Necessary and sufficient conditions for the boundedness of rough B-fractional integral operators in the Lorentz spaces**
Guliyev V. S., ŞERBETÇİ A., Ekincioglu I.
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol.336, no.1, pp.425-437, 2007 (SCI-Expanded)
- XXIV. **On boundedness of the generalized B-potential integral operators in the Lorentz spaces**
Guliyev V. S., ŞERBETÇİ A., Ekincioglu I.
INTEGRAL TRANSFORMS AND SPECIAL FUNCTIONS, vol.18, no.12, pp.885-895, 2007 (SCI-Expanded)
- XXV. **On a certain class of spherical harmonic functions and singular pseudo-differential operators**
Ekincioglu I., ŞERBETÇİ A.
INTEGRAL TRANSFORMS AND SPECIAL FUNCTIONS, vol.18, no.1, pp.27-38, 2007 (SCI-Expanded)
- XXVI. **On weighted estimates of high-order Riesz-Bessel transformations generated by the generalized shift operator**
Ekincioglu I., ŞERBETÇİ A.
ACTA MATHEMATICA SINICA-ENGLISH SERIES, vol.21, no.1, pp.53-64, 2005 (SCI-Expanded)
- XXVII. **Boundedness of Riesz potential generated by generalized shift operator on B_α spaces**
ŞERBETÇİ A., Ekincioglu I.
CZECHOSLOVAK MATHEMATICAL JOURNAL, vol.54, no.3, pp.579-589, 2004 (SCI-Expanded)
- XXVIII. **Boundedness of high order Riesz-Bessel transformations generated by generalized shift operator on B_α spaces**
ŞERBETÇİ A., Ekincioglu I.
CHINESE ANNALS OF MATHEMATICS SERIES B, vol.24, no.1, pp.65-72, 2003 (SCI-Expanded)

Articles Published in Other Journals

- I. **Fractional maximal operator in the local Morrey-Lorentz spaces and some applications**
Guliyev V. S., AYKOL KOCAKUŞAKLI C., KÜÇÜKASLAN A., ŞERBETÇİ A.
AFRIKA MATEMATIKA, vol.35, no.1, 2024 (ESCI)
- II. **GENERALIZED LOCAL MORREY REGULARITY OF ELLIPTIC SYSTEMS**
Guliyev V., ŞERBETÇİ A.
SOCAR Proceedings, no.2, pp.131-136, 2024 (ESCI)

- III. **Weighted Sobolev-Morrey Regularity of Solutions to Variational Inequalities**
Guliyev V. S., ŞERBETÇİ A., Ekincioglu I.
Azerbaijan Journal of Mathematics, vol.14, no.1, pp.94-108, 2024 (ESCI)
- IV. **Boundedness of the anisotropic fractional maximal operator in total anisotropic Morrey spaces**
Guliyev V. S., Isayev F. A., ŞERBETÇİ A.
Transactions Issue Mathematics, Azerbaijan National Academy of Sciences, vol.44, no.1, pp.41-50, 2024 (Scopus)
- V. **Regularity of solutions to nonlinear elliptic equations in generalized Morrey spaces**
Akbulut A., Gadjiev T. S., ŞERBETÇİ A., Rustamov Y. I.
Transactions Issue Mathematics, Azerbaijan National Academy of Sciences, vol.43, no.4, pp.14-31, 2023 (Scopus)
- VI. **Multilinear Calderon-Zygmund operators with kernels of Dini's type and their commutators on generalized local Morrey spaces**
Guliyev V., Isayev F., Şerbetçi A.
Trans. Natl. Acad. Sci. Azerb. Ser. Phys.-Tech. Math. Sci. Mathematics, vol.42, no.4, pp.46-64, 2022 (Scopus)
- VII. **Multilinear commutators of parabolic Calderon-Zygmund operators on generalized weighted variable parabolic Morrey spaces**
AHMADLI A., AKBULUT A., ISAYEV F., ŞERBETÇİ A.
Trans. Natl. Acad. Sci. Azerb. Ser. Phys.-Tech. Math. Sci., vol.41, no.4, pp.3-16, 2021 (Peer-Reviewed Journal)
- VIII. **Approximation by trigonometric polynomials in the variable exponent weighted Morrey spaces**
Cakir Z., Aykol C., Guliyev V. S., ŞERBETÇİ A.
CARPATHIAN MATHEMATICAL PUBLICATIONS, vol.13, no.3, pp.750-763, 2021 (ESCI)
- IX. **Approximation by trigonometric polynomials in weighted Morrey spaces**
Çakır Z., Aykol C., Söylemez Özden D., Şerbetçi A.
TBILISI MATHEMATICAL JOURNAL, vol.13, no.1, pp.123-138, 2020 (ESCI)
- X. **GENERALIZED FRACTIONAL MAXIMAL OPERATOR ON GENERALIZED LOCAL MORREY SPACES**
Kucukaslan A., Guliyev V. S., ŞERBETÇİ A.
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.69, no.1, pp.73-87, 2020 (ESCI)
- XI. **The Dirichlet problem for the uniformly higher-order elliptic equations in generalized weighted Sobolev-Morrey spaces.**
GULIYEV V. S., GADJIEV T., ŞERBETÇİ A.
Nonlinear Studies (NS), vol.26, no.4, pp.831-842, 2019 (Peer-Reviewed Journal)
- XII. **Approximation by trigonometric polynomials in morrey spaces**
Cakir Z., Aykol C., Soylemez D., Şerbetçi A.
Transactions Issue Mathematics, Azerbaijan National Academy of Sciences, vol.39, no.1, pp.24-37, 2019 (Scopus)
- XIII. **Potential operators in modified Morrey spaces defined on Carleson curves**
Dadashova I. B., Aykol C., Cakir Z., ŞERBETÇİ A.
Transactions of A. Razmadze Mathematical Institute, vol.172, no.1, pp.15-29, 2018 (Scopus)
- XIV. **P(X)-admissible sublinear singular operators in the generalized variable exponent morrey spaces**
Akbulut A., Badalov X. A., Hasanov J. J., ŞERBETÇİ A.
Transactions Issue Mathematics, Azerbaijan National Academy of Sciences, vol.36, no.1, pp.10-17, 2016 (Scopus)
- XV. **Liao Fanghui Liu Zongguang Zhang Xiaojin The Tb theorem for inhomogeneous Besov and Triebel Lizorkin spaces and its application Georgian Math J 23 2016 no 2 253 267 Reviewer Ayhan Serbetci 42B20 42B35**
ŞERBETÇİ A.
American Mathematical Society, 2016 (Peer-Reviewed Journal)
- XVI. **Some Applications of Ordinary Differential Operator to Certain Multivalent Functions**
San M., IRMAK H., ŞERBETÇİ A.
JOURNAL OF MATHEMATICS, vol.2015, 2015 (ESCI)
- XVII. **The O Neil inequality for Hankel convolution operator and some applications**
AYKOL KOKAKUŞAKLI C., Guliyev V. S., ŞERBETÇİ A.
EURASIAN MATHEMATICAL JOURNAL, vol.4, no.3, pp.8-19, 2013 (Peer-Reviewed Journal)

- XVIII. **Nikol'skii Besov and Lizorkin Triebel spaces constructed on the base of the multidimensional Fourier Bessel transform**
GULIYEV V., ŞERBETÇİ A., AKBULUT A., YAGUB Y M.
Eurasian Math. J., vol.2, no.3, pp.42-66, 2011 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Integral Operators of Harmonic Analysis in Local Morrey-Lorentz Spaces**
ŞERBETÇİ A.
Operators in General Morrey-Type Spaces and Applications (OMTSA 2017), 10 - 13 July 2017
- II. **Riesz potential in the local Morrey-Lorentz spaces and some applications**
ŞERBETÇİ A.
International Conference on Mathematics and Mathematics Education (ICMME-2017), 11 - 13 May 2017
- III. **Fractional maximal operators and fractional integrals on local Morrey-Lorentz spaces and some applications**
ŞERBETÇİ A.
The VI Congress of the Turkic World Mathematical Society, 2 - 05 October 2017
- IV. **The Boundedness of Maximal and Calderon Zygmund operators on local Morrey Lorentz spaces**
ŞERBETÇİ A.
ICMME-2016, 12 - 14 May 2016
- V. **Sublinear operators with rough kernel generated by Calderon Zygmund operators and their commutators on generalized local Morrey spaces**
ŞERBETÇİ A.
7-th International Conference on "Mathematical Analysis, Differential Equation and Their Applications MADEA-7", 8 - 13 September 2015

Metrics

Publication: 63
Citation (WoS): 148
Citation (Scopus): 215
H-Index (WoS): 9
H-Index (Scopus): 9