

Assoc. Prof. MELİH ERYİĞİT

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Akdeniz University, Institute of Science, Matematik, Turkey 1998 - 2005

Postgraduate, Akdeniz University, Institute of Science, Matematik, Turkey 1996 - 1998

Undergraduate, Akdeniz University, Faculty Of Science, Matematik, Turkey 1992 - 1996

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Bessel Potansiyellerinin Dalgacık Dönüşümleri (Wavelet Transform) Kullanılarak İncelenmesi, Akdeniz University, Institute of Science, Matematik, 2004

Postgraduate, Fourier Dönüşümü Bilinen bir Fonksiyonun Toplanabilirlik Metodları ile oluşturulması, Akdeniz University, Institute of Science, Matematik, 1998

Research Areas

Mathematics, Fourier Analysis, Real Functions, Integral Equations, Measure and Integration, Natural Sciences

Academic Titles / Tasks

Associate Professor, Akdeniz University, Faculty of Science, Department of Mathematics, 2015 - Continues

Assistant Professor, Akdeniz University, Faculty of Science, Department of Mathematics, 2005 - 2017

Research Assistant, Akdeniz University, Faculty of Science, Department of Mathematics, 1997 - 2005

Academic and Administrative Experience

Head of Department, Akdeniz University, Faculty Of Science, Department of Mathematics, 2023 - Continues

Courses

Calculus II, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
İntegral Denklemler II, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
Integral Transforms, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2019 - 2020, 2018 - 2019
Calculus I, Undergraduate, 2023 - 2024, 2022 - 2023, 2020 - 2021, 2019 - 2020
Fourier Analiz, Undergraduate, 2023 - 2024, 2021 - 2022, 2020 - 2021, 2019 - 2020
İntegral Denklemler I, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
Matematik-II, Undergraduate, 2014 - 2015
Matematik-II, Undergraduate, 2014 - 2015
Matematik-I, Undergraduate, 2014 - 2015
İleri Analiz-I, Undergraduate, 2014 - 2015
Fonksiyonel Analiz-II, Undergraduate, 2013 - 2014
Reel Analiz-II, Postgraduate, 2012 - 2013
Matematik-I, Undergraduate, 2013 - 2014, 2012 - 2013
Functional analysis, Undergraduate, 2012 - 2013
Matematik-I, Undergraduate, 2012 - 2013, 2010 - 2011, 2008 - 2009
Reel analiz-I, Postgraduate, 2012 - 2013
Reel Analiz I, Undergraduate, 2010 - 2011

Advising Theses

Eryiğit M., Genelleşmiş poisson yarıgrubu tarafından üretilen kesikli hipersingüler integrallerin yakınsama hızları üzerine, Postgraduate, Ç.AKAY(Student), 2022
Eryiğit M., Flett potansiyellerinin terslerinin belirlenmesine ilişkin kesikli hipersingüler integral ailelerinin L_p anlamında yakınsama hızı üzerine, Postgraduate, T.ŞAHPAZ(Student), 2018
ERYİĞİT M., Poisson ortalamalarının $fELp(R^n)$ fonksiyonlarına bazı pürüzsüzlük noktalarındaki yakınsama hızının tahmini, Postgraduate, S.Çobanoğlu(Student), 2012

Jury Memberships

Post Graduate, Post Graduate, Akdeniz Üniversitesi, January, 2023
Post Graduate, Post Graduate, Akdeniz Üniversitesi, March, 2019
Post Graduate, Post Graduate, Akdeniz Üniversitesi, August, 2016
Doctorate, Doctorate, Mersin Üniversitesi, June, 2015
Competition, Tübitak Orta Öğretim Proje Yarışması Antalya Bölgesi, Akdeniz University, April, 2010
Competition, Ortaokul Öğrencileri Araştırma Projeleri Yarışması, Akdeniz University, April, 2009
Competition, Ulusal Antalya Matematik Olimpiyatları, Akdeniz Üniversitesi, April, 2004
Competition, Ulusal Antalya Matematik Olimpiyatları, Akdeniz Üniversitesi, April, 2003
Competition, Ulusal Antalya Matematik Olimpiyatları, Akdeniz Üniversitesi, April, 2002

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **On Flett potentials associated with the Laplace–Bessel differential operator**
Bayrakçı Doğan S., Eryiğit M., Sezer Evcan S., Yıldız G.
ANNALS OF FUNCTIONAL ANALYSIS, vol.14, no.58, pp.57-73, 2023 (SCI-Expanded)
- II. **On a convergence rate of generalized truncated hypersingular integrals associated to generalized Flett potentials**

Bayrakçı Doğan S., Sezer Evcan S., Eryiğit M., Çobanoğlu S.

Science Asia / Journal of The Science Society of Thailand, vol.49, pp.101-107, 2022 (SCI-Expanded)

- III. **On the convergence of the Abel–Poisson means of multiple Fourier series**
Sezer S., ERYİĞİT M., BAYRAKÇI DOĞAN S.
Turkish Journal of Mathematics, vol.46, no.4, pp.1302-1309, 2022 (SCI-Expanded)
- IV. **The convergence rate of truncated hypersingular integrals generated by the modified Poisson semigroup**
ERYİĞİT M., Evcan S., ÇOBANOĞLU S.
JOURNAL OF INEQUALITIES AND APPLICATIONS, vol.2020, no.1, 2020 (SCI-Expanded)
- V. **A Balakrishnan-Rubin type hypersingular integral operator and inversion of Flett potentials**
Evcan S., ERYİĞİT M., ÇOBANOĞLU S.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.49, no.4, pp.1405-1413, 2020 (SCI-Expanded)
- VI. **On the rate of L-p-convergence of Balakrishnan Rubin-type hypersingular integrals associated to the Gauss-Weierstrass semigroup**
ERYİĞİT M., Çobanoğlu S.
TURKISH JOURNAL OF MATHEMATICS, vol.41, no.6, pp.1376-1384, 2017 (SCI-Expanded)
- VII. **On degree of approximation of the Gauss-Weierstrass means for smooth L-p(R-n) functions**
Eryigit M.
JOURNAL OF INEQUALITIES AND APPLICATIONS, vol.2013, 2013 (SCI-Expanded)
- VIII. **On a rate of convergence of truncated hypersingular integrals associated to Riesz and Bessel potentials**
Aliev I. A., ERYİĞİT M.
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol.406, no.1, pp.352-359, 2013 (SCI-Expanded)
- IX. **An integral transform associated to the Poisson integral and inversion of Flett potentials**
Aliev I. A., Sezer S., Eryigit M.
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol.321, no.2, pp.691-704, 2006 (SCI-Expanded)
- X. **Wavelet-type transform and bessel potentials associated with the generalized translation**
Aliev I., Eryigit M.
INTEGRAL EQUATIONS AND OPERATOR THEORY, vol.51, no.3, pp.303-317, 2005 (SCI-Expanded)
- XI. **Inversion of Bessel potentials with the aid of weighted wavelet transforms**
Aliev I., Eryigit M.
MATHEMATISCHE NACHRICHTEN, vol.242, pp.27-37, 2002 (SCI-Expanded)

Articles Published in Other Journals

- I. **The Rate of Convergence of Truncated Hypersingular Integrals Generated by the Generalized Poisson Semigroup**
SEZER EVCAN S., ERYİĞİT M., ÇOBANOĞLU S.
Researches in Mathematics, pp.29-42, 2020 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **On A Rate Of Convergence Of Truncated Hypersingular Integrals Associated To Bessel Potentials**
ERYİĞİT M., ALİYEV İ.
International Conference of Mathematical Analysis, Differential Equations and Their Applications, Mersin, Turkey, 4 - 09 September 2012, pp.46
- II. **Poisson Ortalamalarının $f \circ L^p(R^n)$ Fonksiyonlarına Bazı Pürüzsüzlük Noktalarındaki Yakınsama Hızının Tahmini**
Çobanoğlu S., ERYİĞİT M.

XXV. Ulusal Matematik Sempozyumu, Niğde, Turkey, 5 - 08 August 2012, pp.84-85

III. Wavelet-type transform generated by the Poisson kernel

ERYİĞİT M., ALİYEV İ.

International Conference of Dynamic System and Applications, Antalya, Turkey, 5 - 10 July 2004, pp.45

IV. Weighted wavelet transforms and Bessel potentials

ERYİĞİT M., ALİYEV İ.

International Scientific Conference, VI'th Bogolubov readings, Chernivtsi, Ukraine, 26 - 30 August 2003, pp.276

V. Bir Calderon Türetme Formülü Üzerine

ERYİĞİT M.

XV. Ulusal Matematik Sempozyumu, Mersin, Turkey, 4 - 07 September 2002, pp.73-79

Other Publications

I. Akdeniz Üniversitesi XI. Ulusal Antalya Matematik Olimpiyatı birinci aşama sınav soru ve yanıtları

(2006), Matematik Dünyası

ALİYEV İ., ÖZDEMİR M., ERYİĞİT M.

Other, pp.97-101, 2006

Expert Reports

I. Bilinen Sıfır Yerleriyle Faber Polinomları ve Faber Kümeleri

Eryigit M.

Kırgızistan-Türkiye Manas Üniversitesi, pp.2, Bishkek, 2016

Supported Projects

ERYİĞİT M., Project Supported by Higher Education Institutions, On degree of approximation of the Gauss-Weierstrass means for smooth $L_p(R^n)$ functions, 2014 - 2022

Scientific Refereeing

TUBITAK Project, September 2017

TURKISH JOURNAL OF MATHEMATICS, SCI Journal, May 2016

Metrics

Publication: 20

Citation (WoS): 29

Citation (Scopus): 34

H-Index (WoS): 3

H-Index (Scopus): 3

Congress and Symposium Activities

M.Eryigit, I.A. aliev, On A Rate Of Convergence Of Truncated Hypersingular Integrals Associated To Bessel Potentials , International Conference of Mathematical Analysis, Differential Equations and Their Applications,, Attendee, Mersin,

Turkey, 2012

Selim Çobanoğlu, Melih Eryiğit, “Poisson Ortalamalarının $f \in L^p(\mathbb{R}^n)$ Fonksiyonlarına Bazı Pürüzsüzlük Noktalarındaki Yakınsama Hızının Tahmini”, XXV. Ulusal Matematik Sempozyumu,, Attendee, Niğde, Turkey, 2012

M.Eryigit, I.A. aliev, “ Wavelet-type transform generated by the Poisson kernel”, , International Conference of Dynamic System and Applications,, Attendee, Antalya, Turkey, 2004

Eryigit M., Aliev I.A., “Weighted wavelet transforms and Bessel potentials”, International Scientific Conference, VI'th Bogolubov readings,, Attendee, Chernivtsi, Ukraine, Ukraine, 2003

Melih Eryiğit, “Bir Calderon Türetme Formülü Üzerine”, XV. Ulusal Matematik Sempozyumu,, Attendee, Mersin, Turkey, 2002