

## Prof. İLHAM ALİYEV

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: C-6239-2016

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### Education Information

Doctorate, Azerbaijan Bilimler Akademisi, Matematik Ve Mekanik Enstitüsü, Azerbaijan 1979 - 1983

Postgraduate, Azerbaijan Bilimler Akademisi, Matematik Ve Mekanik Enstitüsü, Azerbaijan 1978 - 1979

Undergraduate, Azerbaijan Devlet Üniversitesi, Mekanik Ve Matematik Fakültesi, Azerbaijan 1973 - 1978

### Foreign Languages

English, B1 Intermediate

Russian, B2 Upper Intermediate

### Dissertations

Doctorate, II. Doktora (Doctor of science): "Fourier-Bessel Harmonik Analizi üzerine araştırmalar", Azerbaijan Bilimler Akademisi, Matematik Ve Mekanik Enstitüsü, ., 2003

Doctorate, Çok değişkenli tam fonksiyonlar teorisinin değişik eşitsizliklerinde, konveks kompaktlar artış hızının göstergesi rolünde, Azerbaijan Bilimler Akademisi, Matematik Ve Mekanik Enstitüsü, Analiz, 1983

### Research Areas

Mathematics, Functional Analysis, Fourier Analysis, Real Functions, Integral Transformations, Computational Calculation, Approximations and Expansions, Natural Sciences

### Academic Titles / Tasks

Professor, Akdeniz University, Faculty of Science, Department of Mathematics, 2010 - Continues

Professor, Akdeniz University, Faculty of Education, Ortaöğretim Fen Ve Matematik Alanlar Eğitimi Bölümü, 2008 - 2010

Associate Professor, Akdeniz University, Faculty of Science, Department of Mathematics, 1993 - 2008

Associate Professor, Azerbaijan Bilimler Akademisi, Matematik Ve Mekanik Enstitüsü, Fonksiyonlar Teorisi, 1985 - 1993

Assistant Professor, Azerbaijan Bilimler Akademisi, Matematik Ve Mekanik Enstitüsü, Fonksiyonlar Teorisi, 1983 - 1985

Research Assistant, Azerbaijan Bilimler Akademisi, Matematik Ve Mekanik Enstitüsü, Fonksiyonlar Teorisi, 1978 - 1983

## Academic and Administrative Experience

Akdeniz University, Fen Fakültesi, Matematik Bölümü, Matematik, 2014 - Continues

Akdeniz University, Faculty of Science, 2012 - Continues

Akdeniz University, 2008 - 2014

Akdeniz University, Faculty of Education, 2008 - 2010

Akdeniz University, Ortaöğretim Fen Ve Matematik Alanlar Eğitimi, 2008 - 2010

## Courses

Danışmanlık, Postgraduate, 2013 - 2014

Harmonik Analiz II, Doctorate, 2013 - 2014

Uzmanlık Alan Dersi, Postgraduate, 2013 - 2014

İntegral Dönüşümler, Undergraduate, 2013 - 2014

Karmaşık Analiz, Postgraduate, 2013 - 2014

İntegral Dönüşümler (2. öğretim), Undergraduate, 2013 - 2014

İleri Analiz II (2.öğretim), Undergraduate, 2013 - 2014

Doktora Uzmanlık Alan Dersi, Doctorate, 2013 - 2014

Danışmanlık, Doctorate, 2013 - 2014

Bitirme Çalışması II, Undergraduate, 2013 - 2014

## Advising Theses

ALİYEV İ., Bessel kaymasının doğurduğu Riesz potansiyellerinden oluşan fonksiyonel uzaylar ve onların dalgacık tipli dönüşümler yardımıyla nitelendirilmesi, Doctorate, E.SAĞLIK(Student), 2018

ALİYEV İ., Bessel kaymasının doğurduğu Bessel potansiyellerinin bir genelleşmesi, Postgraduate, S.YÜCEL(Student), 2017

ALİYEV İ., Çeşitli yarıgrupların doğurduğu kesikli hipersingüler integral operatör ailelerinin yakınsama hızlarının incelenmesi, Doctorate, S.ÇOBANOĞLU(Student), 2017

ALİYEV İ., Zayıf Singüler İntegral Operatörler Ailesinin Singülerlik Derecesine Bağlı Davranışı Üzerine, Postgraduate, M.DEMİR(Student), 2016

ALİYEV İ., Zayıf singüler integral operatörler ailesinin singülerlik derecesine bağlı davranış üzerine, Postgraduate, M.Demir(Student), 2016

ALİYEV İ., Dersliklere göre düzey kümesi uygulamasının ilköğretim 7. sınıf öğrencilerinin matematik dersine yönelik akademik başarı ve benlik saygısı üzerine etkisi, Postgraduate, Ö.AVCI(Student), 2013

ALİYEV İ., Yaklaşık birim operatörlerin doğurduğu dalgacık tipli integral dönüşümler ve bazı uygulamaları, Postgraduate, E.ÇEVİK(Student), 2012

ALİYEV İ., Matematik başarı düzeyi yüksek öğrencilerde problem kurma tekniği kullanımının problem çözme başarısına etkisi ve öğrencilerin öz-düzenleyici öğrenme stratejileri, Postgraduate, A.Şimşek(Student), 2012

ALİYEV İ., Dalgacık (Wavelet) Tipli Bir İntegral Dönüşüm Üzerine, Postgraduate, A.AHMET(Student), 2007

ALİYEV İ., Bochner-Riesz integrali yardımıyla riesz potansiyellerinin yaklaşım özelliklerinin incelenmesi, Postgraduate, G.KARAPINAR(Student), 2006

ALİYEV İ., Genelleşmiş kayma operatörünün doğurduğu parabolik potansiyeller uzayı, Doctorate, S.SEZER(Student), 2005

ALİYEV İ., Bessel potansiyellerinin dalgacık dönüşümleri (wavelet transforms) kullanılarak incelenmesi, Doctorate, M.ERYİĞİT(Student), 2004

ALİYEV İ., Bessel potansiyelleri'nin dalgacık dönüşümleri (Wavelet Transforms) kullanılarak incelenmesi, Doctorate, M.Eryiğit(Student), 2004

ALİYEV İ., Genelleşmiş Poisson yarıgrubu vasıtasıyla B-eliptik potansiyellerin tersini belirleme, Doctorate,

S.BAYRAKÇI(Student), 2001

ALİYEV İ., Fourier dönüşümü bilinen bir fonksiyonun toplanabilirlik metodları ile oluşturulması, Postgraduate, M.ERYİĞİT(Student), 1999

ALİYEV İ., Hardy-Littlewood maksimal operatörünün bir genelleşmiş versiyonu ve onun singular ve hipersingular integraller teorisine uygulanması, Doctorate, M.Şafiyev(Student), 1993

ALİYEV İ., Çok değişkenli tam fonksiyonların ağırlıklı uzaylarında bazı lineer operatörlerin incelenmesi, Doctorate, T.Hasanova(Student), 1991

## Jury Memberships

Appointment to Academic Staff-Assistant Professorship, Yrd. Doç. Atama Jürisi, Bitlis Eren Üniv., August, 2013

Associate Professor Exam, Doçentlik sınavı jürisi, Üniversitelerarası Kurul, April, 2013

Associate Professor Exam, Doçentlik sınavı jürisi, ÜAK, October, 2012

Associate Professor Exam, Doçentlik sınavı jürisi, ÜAK, October, 2012

Associate Professor Exam, Doçentlik sınavı jürisi, ÜAK, October, 2012

Appointment to Academic Staff-Assistant Professorship, Yrd. Doç. Atama Jürisi, Zirve Üniv., August, 2012

Appointment to Academic Staff-Assistant Professorship, Profesörlük Atama Jürisi, Akdeniz Üniversitesi, May, 2012

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Parabolic-Like Wavelet Transforms and Relevant Reproducing Formulas**  
Aliiev I. A., SEKİN Ç.  
JOURNAL OF FOURIER ANALYSIS AND APPLICATIONS, vol.27, no.3, 2021 (SCI-Expanded)
- II. **On the approximation properties of bi-parametric potential-type integral operators**  
SEKİN Ç., GÜLOĞLU M., Aliiev İ.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.50, no.6, pp.1681-1691, 2021 (SCI-Expanded)
- III. **A GENERALIZATION OF PARABOLIC RIESZ AND PARABOLIC BESSEL POTENTIALS**  
Aliiev I. A., SEKİN Ç.  
ROCKY MOUNTAIN JOURNAL OF MATHEMATICS, vol.50, no.3, pp.815-824, 2020 (SCI-Expanded)
- IV. **On the non-tangential convergence of Poisson and modified Poisson semigroups at the smoothness points of  $L_p$  -functions**  
BAYRAKÇI DOĞAN S., Shafiev M. F., Aliiev I. A.  
Periodica Mathematica Hungarica, vol.80, no.2, pp.249-258, 2020 (SCI-Expanded)
- V. **On values of the Riemann zeta function at positive integers**  
DİL A., Boyadzhiev K. N., ALİYEV İ.  
LITHUANIAN MATHEMATICAL JOURNAL, vol.60, no.1, pp.9-24, 2020 (SCI-Expanded)
- VI. **Some generalizations of Bessel and Flett potentials associated to the Laplace-Bessel differential operator**  
ALİYEV İ., Yucel S.  
INTEGRAL TRANSFORMS AND SPECIAL FUNCTIONS, vol.29, no.3, pp.235-251, 2018 (SCI-Expanded)
- VII. **A new wavelet-like transform associated with the Riesz-Bochner integral and relevant reproducing formula**  
ALİYEV İ., Sağlik E.  
MEDITERRANEAN JOURNAL OF MATHEMATICS, vol.13, no.6, pp.4711-4722, 2016 (SCI-Expanded)
- VIII. **Generalized Riesz Potential Spaces and their Characterization via Wavelet-Type Transform**  
ALİYEV İ., Sağlik E.  
FILOMAT, vol.30, no.10, pp.2809-2823, 2016 (SCI-Expanded)
- IX. **The rate of convergence of truncated hypersingular integrals generated by the Poisson and metaharmonic semigroups**

- ALİYEV İ., Cobanoglu S.  
 INTEGRAL TRANSFORMS AND SPECIAL FUNCTIONS, vol.25, no.12, pp.943-954, 2014 (SCI-Expanded)
- X. **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)
- XI. **Square-like Functions Generated by a Composite Wavelet Transform**  
 Aliev I. A., Bayrakci S.  
 Mediterranean Journal of Mathematics, vol.8, no.4, pp.553-561, 2011 (SCI-Expanded)
- XII. **A relation between Bessel and Fourier transforms and its application to the weighted inequalities**  
 ALİYEV İ.  
 INTEGRAL TRANSFORMS AND SPECIAL FUNCTIONS, vol.21, no.2, pp.135-142, 2010 (SCI-Expanded)
- XIII. **Bi-Parametric Potentials, Relevant Function Spaces and Wavelet-Like Transforms**  
 ALİYEV İ.  
 INTEGRAL EQUATIONS AND OPERATOR THEORY, vol.65, no.2, pp.151-167, 2009 (SCI-Expanded)
- XIV. **On behaviour of the Riesz and generalized Riesz potentials as order tends to zero**  
 Gadjiev A. D., Aral A., ALİYEV İ.  
 MATHEMATICAL INEQUALITIES & APPLICATIONS, vol.10, no.4, pp.875-888, 2007 (SCI-Expanded)
- XV. **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)
- XVI. **On approximation properties of a family of linear operators at critical value of parameter**  
 ALİYEV İ., Gadjiev A., Aral A.  
 JOURNAL OF APPROXIMATION THEORY, vol.138, no.2, pp.242-253, 2006 (SCI-Expanded)
- XVII. **On approximation properties of the parabolic potentials**  
 Uyhan S., Gadjiev A. D., Aliyev İ.  
 Bulletin of the Australian Mathematical Society, vol.74, no.3, pp.449-460, 2006 (SCI-Expanded)
- XVIII. **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)
- XIX. **SPHERICAL HARMONICS ASSOCIATED TO THE LAPLACE-BESSEL OPERATOR AND GENERALIZED SPHERICAL CONVOLUTIONS**  
 ALİYEV İ., Rubin B.  
 ANALYSIS AND APPLICATIONS, vol.1, no.1, pp.81-109, 2003 (SCI-Expanded)
- XX. **Parabolic wavelet transforms and Lebesgue spaces of parabolic potentials**  
 ALİYEV İ., Rubin B.  
 ROCKY MOUNTAIN JOURNAL OF MATHEMATICS, vol.32, no.2, pp.391-408, 2002 (SCI-Expanded)
- XXI. **On inversion of Bessel potentials associated with the Laplace-Bessel differential operator**  
 Aliyev İ., Uyhan-Bayrakci S.  
 Acta Mathematica Hungarica, vol.95, no.1-2, pp.125-145, 2002 (SCI-Expanded)
- XXII. **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)
- XXIII. **Parabolic potentials and wavelet transforms with the generalized translation**  
 ALİYEV İ., Rubin B.  
 STUDIA MATHEMATICA, vol.145, no.1, pp.1-16, 2001 (SCI-Expanded)
- XXIV. **On the Bochner-Riesz summability and restoration of  $\mu$ -smooth functions by means of their Fourier transforms**  
 ALİYEV İ.  
 FRACTIONAL CALCULUS AND APPLIED ANALYSIS, vol.2, pp.265-277, 1999 (SCI-Expanded)
- XXV. **On inversion of B-elliptic potentials by the method of Balakrishnan-Rubin**

Aliyev İ., Bayrakçı Doğan S.

Fractional Calculus and Applied Analysis, vol.1, no.4, pp.365-384, 1998 (SCI-Expanded)

XXVI. **WEIGHTED ESTIMATES OF MULTIDIMENSIONAL SINGULAR-INTEGRALS GENERATED BY THE GENERALIZED SHIFT OPERATOR**

ALİYEV İ., GADZHIEV A.

RUSSIAN ACADEMY OF SCIENCES SBORNIK MATHEMATICS, vol.77, no.1, pp.37-55, 1994 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Tornheim-Like Series, Harmonic Numbers, and Zeta Values**  
ALİYEV İ., DİL A.  
Journal of Integer Sequences, vol.25, no.5, 2022 (ESCI)
- II. **7.den 70.e herkes için Cauchy-Schwarz eşitsizliği ve ilginç uygulamaları**  
ALİYEV İ.  
Matematik Dünyası, no.105, pp.45-50, 2017 (Peer-Reviewed Journal)
- III. **21. Ulusal Antalya Matematik Olimpiyatları Soruları ve Çözümleri**  
ALİYEV İ., ÖZDEMİR M.  
Matematik Dünyası, no.104, pp.94-101, 2016 (Peer-Reviewed Journal)
- IV. **Kesirli (Rasyonel) sayıları anlamak: Kolay mı, Zor mu?**  
ALİYEV İ.  
Matematik Dünyası, pp.52-55, 2014 (Peer-Reviewed Journal)
- V. **Composite wavelet transforms: Applications and perspectives**  
Rubin B., Aliyev İ., Sezer S., Bayrakçı S.  
RADON TRANSFORMS, GEOMETRY, AND WAVELETS, vol.464, no.null, pp.1, 2008 (Scopus)
- VI. **On order of non-tangential convergence of the meta-harmonic semigroup (Russian)**  
ALİYEV İ., Shafiev M., SEZER S.  
Dokl. Akad. Nauk Azerb., vol.LXI, pp.10-15, 2005 (Peer-Reviewed Journal)
- VII. **On order of non-tangential convergence of the meta-harmonic semigroup (Russian)**  
ALİYEV İ., Shafiev M., SEZER S.  
Akad. Nauk Azerbaidzhan. Dokl, vol.LXI, pp.10-15, 2005 (Peer-Reviewed Journal)
- VIII. **On Inversion of B-Elliptic Potentials by the Method of Balakrishnan-Rubin**  
ALİYEV İ., BAYRAKÇI S.  
FRACTIONAL CALCULUS AND APPLIED ANALYSIS, vol.1, no.4, pp.365-384, 1998 (Peer-Reviewed Journal)
- IX. **Riesz transforms generated by a generalized translation operator,(Russian)**  
ALİYEV İ.  
Izv.Acad.Nauk Azerb. SSR. Fiz.-Tekhn. Mat. Nauk, vol.8, pp.7-13, 1987 (Peer-Reviewed Journal)
- X. **Asymptotics of the best approximation of analytic functions having algebraic-logarithmic singular points;(Russian).**  
Shikhaliev N., ALİYEV İ.  
Izv. Acad. Nauk Azerb.SSR, Fiz.-Tekhn. Mat.Nauk, vol.6, pp.3-8, 1985 (Peer-Reviewed Journal)
- XI. **Approximation of entire functions of several variables by exponential sums (Russian).**  
Gadjiev A. D., ALİYEV İ.  
Izv. Acad. Nauk Azerb. SSR, Fiz.-Tekh. Mat. Nauk, vol.5, pp.10-16, 1984 (Peer-Reviewed Journal)
- XII. **Nikolsky-type inequalities in terms of indicators of diagrams of entire functions of several variables. (Russian)**  
ALİYEV İ.  
Acad. Nauk Azerb. SSR Dokl., vol.38, pp.3-6, 1982 (Peer-Reviewed Journal)
- XIII. **L<sub>p</sub>-estimates for differential operators in the class of entire functions of several variables (Russian).**  
ALİYEV İ.

## Books & Book Chapters

- I. **Ulusal Antalya Matematik Olimpiyatları 1. Aşama Son 20 Yılın Soruları Ve Çözümleri**  
ALİYEV İ., ÖZDEMİR M.  
Altın Nokta Basım, İzmir, 2015
- II. **Akdeniz Üniversitesi Ulusal Antalya Matematik Olimpiyatları**  
ALİYEV İ., ÖZDEMİR M., Şihaliyeva D.  
Altın Nokta Yayınevi, İzmir, 2010
- III. **Composite Wavelet Transforms: Applications and Perspectives**  
ALİYEV İ., Rubin B., SEZER EVCAN S., Bayrakçı Doğan S.  
in: Contemporary Mathematics, Radon Transforms, Geometry and Wavelets, Gestur Olafsson, Eric L. Grinberg, Peter R. Massopust, Eric Todd Quinto, Boris Rubin, Editor, Amer. Math. Soc., Providence, RI, Rhode Island, pp.1-25, 2008
- IV. **Composite Wavelet Transforms: Applications and Perspectives**  
ALİYEV İ., Rubin B., SEZER S., BAYRAKÇI S.  
in: Contemporary Mathematics, Radon Transforms, Geometry, and Wavelets, DeTurck D., Andrews G., Klein A., Editor, Amer. Math. Soc., Providence, RI, Rhode Island, pp.1-25, 2008
- V. **Ulusal Antalya Matematik Olimpiyatları**  
ALİYEV İ., ÖZDEMİR M., Şihaliyeva D.  
TÜBİTAK Yayınları, Ankara, 2006
- VI. **Analiz ve Cebirde İlginç Olimpiyat Problemleri ve Çözümleri**  
Karakas H. İ., ALİYEV İ.  
TÜBİTAK Yayınları, Ankara, 2003
- VII. **Sayılar Teorisinde İlginç Olimpiyat Problemleri ve Çözümleri**  
Karakas H. İ., ALİYEV İ.  
TÜBİTAK Yayınları, Ankara, 2003

## Refereed Congress / Symposium Publications in Proceedings

- I. **A generalization of parabolic potentials associated to Laplace-Bessel differential operator**  
ALİYEV İ., Sekin Ç.  
International Conference on Mathematics and Mathematics Education (ICMME 2019), Konya, Turkey, 11 - 13 July 2019, pp.89-91
- II. **A GENERALIZATION OF PARABOLIC RIESZ AND PARABOLIC BESSEL POTENTIALS**  
ALİYEV İ., Sekin Ç.  
IFSCOM2019 6th ifs and contemporary mathematics conference, Mersin, Turkey, 7 - 10 June 2019, pp.1-2
- III. **Gauss-Weierstrass ve Abel-Poisson yarığıruplarının bir genelleşmesinin Bessel ve Riesz potansiyellerine uygulanması**  
ALİYEV İ.  
14. Ankara Matematik Günleri (AMG 2019), Ankara, Turkey, 28 May - 29 June 2019, pp.1
- IV. **On approximation properties of bi-parametric potential-type integral operators**  
ALİYEV İ., Sekin Ç.  
4-th International Conference on Computational Mathematics and Engineering Sciences-CMES 2019, Antalya, Turkey, 20 - 22 April 2019, pp.169
- V. **On non-tangential convergence of Poisson and modified Poisson semigroups at the smoothness points of  $L_p$  -functions**  
Bayrakçı S., Shafiev M., Aliyev İ.  
Riyaziyyat və Mexanikanın müasir problemləri, Baku, Azerbaijan, 6 - 08 December 2017

- VI. **On non-tangential convergence of Poisson and modied Poisson semigroups at the nu-smoothness points of  $L_p$  -functions**  
BAYRAKÇI S., SHAFİEV M., ALİYEV İ.  
Azerbaycan Milli Elimler Akademiyası Riyaziyyat ve Mekanika İnstitutü, Riyaziyyat ve Mekanikanın müasir problemleri akademik Akif Hacıyev anısına konferans, Bakı, Azerbaijan, 6 - 08 December 2017, pp.1
- VII. **Genelleşmiş Riesz Potansiyelleri Uzayının yeni bir karakterizasyonu**  
ALİYEV İ., Sağlık E.  
30.Ulusal Matematik Sempozyumu (UMS2017), Ankara, Turkey, 6 - 09 September 2017, pp.61
- VIII. **Wavelet-type transforms generated by some semigroups and their applications**  
ALİYEV İ.  
6th INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS (IECMSA-2017), Budapeşte, Hungary, 15 - 18 August 2017, pp.66
- IX. **Dalgacık tipli bir integral dönüşüm ve genelleşmiş Riesz potansiyelleri için yeni bir ters bulma formülü**  
ALİYEV İ., Sağlık E.  
28. Ulusal Matematik sempozyumu, Antalya, Turkey, 7 - 09 September 2015, pp.29
- X. **Metaharmonik yarıgrubun doğurduğu bir kesikli hipersingüler integral ailesinin  $L_p$  uzayında yakınsama hızının incelenmesi**  
ALİYEV İ., Çobanoğlu S.  
28.Ulusal Matematik Sempozyumu, Antalya, Turkey, 7 - 09 September 2015, pp.43-44
- XI. **Bi-Parametric Potentials and Their Inverses with the aid of Wavelet-type Transforms**  
ALİYEV İ.  
4-th International Eurasian Conference on Mathematical Sciences and Applications, Atina, Greece, 31 August - 03 September 2015, pp.69-70
- XII. **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
- XIII. **A characterization of the Riesz potentials spaces with the aid of a composite wavelet transform**  
SEZER EVCAN S., ALİYEV İ.  
14-th International Congress on Computational and Applied Mathematics (ICCAM 2009), 29 September - 02 October 2009, pp.248
- XIV. **Beta-Semigroup and Riesz Potentials**  
SEZER EVCAN S., ALİYEV İ.  
20 th International Congress of Jangjeon Mathematical Society, 21 - 23 August 2008, pp.92
- XV. **Composite wavelet transforms: Applications and perspectives**  
ALİYEV İ., Rubin B., Sezer S., Uyhan S.  
Special Session on Radon Transforms, Geometry, and Wavelets held at the AMS Annual Meeting, Louisiana, United States Of America, 7 - 08 January 2007, vol.464, pp.1-4
- XVI. **On Inversion of Flett Potentials**  
SEZER EVCAN S., ALİYEV İ.  
16th International Conference of Jangjeon Mathematical Society, 4 - 06 June 2005, pp.49
- XVII. **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
- XVIII. **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

## Other Publications

- I. **Akdeniz Üniversitesi XVI. Ulusal Antalya Matematik Olimpiyatı, Birinci Aşama Sınav Yanıtları (2011), Matematik Dünyası**  
ALİYEV İ., ÖZDEMİR M., TINAZTEPE G.  
Other, pp.96-103, 2012
- II. **Harmonik Serinin Iraksaklığı, Matematik Dünyası**  
ALİYEV İ., DİL A.  
Other, pp.31-38, 2012
- III. **Akdeniz Üniversitesi, XV. Ulusal Antalya Matematik Olimpiyatı Birinci Aşama Sınav Yanıtları (2010), Matematik Dünyası**  
ALİYEV İ., ÖZDEMİR M., TINAZTEPE G.  
Other, pp.98-103, 2011
- IV. **Akdeniz Üniversitesi XIV. Ulusal Antalya Matematik Olimpiyatı, Birinci Aşama Sınav Soruları (2009), Matematik Dünyası**  
ALİYEV İ., ÖZDEMİR M., TINAZTEPE G.  
Other, pp.96-101, 2010
- V. **Teleskopik Formül ve Uygulamaları, Matematik Dünyası**  
ALİYEV İ., SEZER S.  
Other, pp.58-61, 2010
- VI. **Elipsin çevre uzunluğunun en kısa olduğu ülke, Matematik Dünyası**  
ALİYEV İ.  
Other, pp.87-88, 2010
- VII. **XIII. Ulusal Antalya Matematik Olimpiyatı, ikinci aşama sınavı (çözümler) -2008, Matematik Dünyası**  
ALİYEV İ., ÖZDEMİR M., DİL A.  
Other, pp.87-90, 2008
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- XXXIV. **On order of convergence of truncated hypersingular integrals of Balakrishnan-Rubin type, Moscow, Dep. VINITI**  
Shafiev M., ALİYEV İ.  
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- XXXV. **Properties and inversion of the B- parabolic potentials,"Special Problems of Math. and Mech."**  
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- XXXVI. **Some Inequalities of various metrics for generalized polynomials in terms of the Newton polyhedron"Special Problems in Function Theory"**  
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- XXXVII. **The characteristic properties of some operators associated with Fourier and Bessel transforms.Moscow, Dep. VINITI**  
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- XXXIX. **A multidimensional analogue of a theorem of Cartwright, "Special problems in Function Theory"**  
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- XL. **Riyaziyyatdan Olimpiada Meseleleri, Bakü**  
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- XLI. **Fourier-Bessel Transforms of homogeneous functions and their applications to the theory of Multidimensional Singular Integrals. Moscow. Dep. VINITI**  
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## Activities in Scientific Journals

TRANSACTIONS ISSUE MATHEMATICS Azerbaijan National Academy of Science, Advisory Committee Member, 2015 - Continues

Proceedings of the Institute of Mathematics and Mechanics, Advisory Committee Member, 2015 - Continues

## Metrics

Publication: 112

Citation (WoS): 151

Citation (Scopus): 134

H-Index (WoS): 9

H-Index (Scopus): 7

## Congress and Symposium Activities

Genelleşmiş Riesz Potansiyallerinin yaklaşık terslerinin noktasal yaklaşım hızı üzerine; 29. Ulusal Matematik Sempozyumu, Attendee, Mersin, Turkey, 2016

A New Characterization of Bessel Potential Spaces (5th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2016) ), Attendee, Beograd, Montenegro, 2016

Bessel kaymasının doğurduğu yeni bir dalgacık tipli dönüşüm ve genelleşmiş Riesz potansiyellerine uygulaması; 29 Ulusal Matematik Sempozyumu, Attendee, Mersin, Turkey, 2016

Bir yaklaşık birim operatörün doğurduğu dalgacık tipli integral dönüşüm ve Calderon formülü, XXV Ulusal Matematik Sempozyumu, Attendee, NİĞDE, Turkey, 2012

On a rate of convergence of truncated hypersingular integrals associated to the Bessel Potentials, International Conference "Mathematical Analysis, Differential Equations and their Applications", Attendee, MERSİN, Turkey, 2012

A characterization of the Riesz potentials spaces with the aid of a composite wavelet transform, 14-th International Congress on Computational and Applied Mathematics (ICCAM 2009), Attendee, ANTALYA, Turkey, 2009

Composite Wavelet Transforms and application to inversion of potentials, International Conference: Math. Analysis, Diff. Equations and their Applications, Attendee, FAMAGUSTA, Turkey, 2008

Beta-Semigroup and Riesz Potentials, 20 th International Congress of Jangjeon Mathematical Society, Attendee, BURSA, Turkey, 2008

An integral transform generated by a semigroup of operators and its inverse, International Conference on Complex Analysis and Potential Theory (Satellite to the International Congress of Mathematicians-2006), Attendee, GEBZE, Turkey, 2006

Metaharmonik yarıgrubun non-tangential yakınsama hızı üzerine, Türk Matematik Derneği XVII. Ulusal Matematik Sempozyumu, Attendee, İSTANBUL, Turkey, 2005

On Inversion of Flett Potentials, 16th International Conference of Jangjeon Mathematical Society, Attendee, ANTALYA, Turkey, 2005

A Wavelet -Like Transform Generated by a Generalized Gauss-Weierstrass Integral and Its Inverse, 16th International Conference of Jangjeon Mathematical Society, Attendee, ANTALYA, Turkey, 2005

Wavelet-type transform generated by the Poisson kernel, International Conference Dynamical Systems and Applications, Attendee, ANTALYA, Turkey, 2004

Weighted wavelet transforms and Bessel potentials, International scientific conference, VI'th Bogolubov readings, Attendee, Chernivtsi, Ukraine, 2003

Inversion of Parabolic Potentials by means of Wavelet transforms, International scientific conference, VI'th Bogolubov readings, Attendee, Chernivtsi, Ukraine, 2003

Schwartz test fonksiyonları uzayının iki alt kümesi hakkında, Türk Matematik Derneği, XV. Ulusal Matematik Sempozyumu, Attendee, MERSİN, Turkey, 2002

On Potentials Associated With The Laplace-Bessel Differential Operator., Attendee, PLOVDİV, Bulgaria, 2000

On Restoration of the  $\mu$ - smooths  $L_p$ -functions by means of their Fourier Transforms, Türk Matematik Derneği, XI. Ulusal Mat. Sempozyumu, Attendee, ISPARTA, Turkey, 1999

On inversion of Bessel potentials, associated with Laplace-Bessel differential operator, Türk Matematik Derneği, XII.

Ulusal Matematik Sempozyumu, Attendee, MALATYA, Turkey, 1999

The Plancherel-Polya indicator of entire functions and Bernstein-type inequalities, "Transform Methods and Special Functions, AUBG' 99, Attendee, Bulgaria, 1999

On potential spaces associated with the Laplace-Bessel differential operator, "International Conference on Function Spaces, Theory of Approximation, Nonlinear Analysis", Attendee, MOSKOVA, Russia, 1995

The Inverse Formula for The Bessel Potentials, The VI.National Mathematics Symposium, Attendee, Cyprus (Kktc), 1993  
B-Metaharmonic Semi-Groups And Their Properties, The 3-th Turkish-Azerbaijan Math.Symposium, Attendee, TRABZON, Turkey, 1993

On parabolic potentials generated by a generalized shift operator. The 3-th Turkish-Azerbaijan Math. Symposium, Attendee, TRABZON, Turkey, 1993

Weighted norm inequalities for singular integrals and potentials. Proc. of the Regional Conference on Mathematics and Theoretical Physics, Attendee, TEBRİZ, Iran, 1992

On the spaces  $\Psi^{\{+\}}$  and  $\Phi^{\{+\}}$  of Lizorkin-type. The 2-nd Turkish-Azerbaijan Mathematics Symposium, Attendee, BAKÜ, Azerbaijan, 1992

Weighted norm inequalities for the Riesz potentials, generated by the generalized shift operator, Türk Matematik Derneği V.Ulusal Matematik Sempozyumu, Attendee, SAKARYA, Turkey, 1992

Weighted Nikolsky-type inequalities for even entire functions of exponential type. Thesis' of reports of seminar on Functional Analysis, dedicated to memory of academician Z. I. Khalilov, Attendee, BAKÜ, Azerbaijan, 1991

The B-parabolic potentials: their descriptions, properties and inversions. The Reports of seminar of the I.N. Vekua Institute of Applied Mathematics, Attendee, TİFLİS, Georgia, 1990

On Bessel Potentials generated by a generalized translation. Proc. All-Union Conf. "Recent problems on Theory of functions", Attendee, BAKÜ, Azerbaijan, 1989

Boundedness of Singular Integral Operators generated by generalized shift operator in the weighted  $L_p$ -space. Proc. All-Union Conf. "Recent problems on Theory of functions", Attendee, BAKÜ, Azerbaijan, 1989

Riesz and Bessel potentials generated by the generalized shift operator and their inversions, Proc. IV All-Union winter Conf. on Theory of functions and approximation, Attendee, SARATOV, Russia, 1988

The characteristic properties of some operators associated with Bessel differential operator. Proc. VIII Young Scientists' Conf. on Mathematics and Mechanics, Attendee, BAKÜ, Azerbaijan, 1988

On a class of Potential type operators, generated by a generalized shift operator. The reports of seminar of the I.N.Vekua Institute of applied Mathematics, Attendee, TİFLİS, Georgia, 1988

On oscillatory multipliers of Fourier series in weighted spherical harmonics. Proc. XI All-Union Conf. on operator Theory of the functional spaces, Attendee, Chelyabinsk, Russia, 1986

On the best polynomial approximation of analytic functions having algebraic-logarithmic singular points. (with N.I. Shikhaliev). Proc. 5-th Young Scientists' Conf. on Mathematics and Mechanics, Attendee, BAKÜ, Azerbaijan, 1985

Convex compacts as characteristics of growth in different inequalities in the theory of functions of several variables.

Proc. 2nd Saratov's All-union winter Conf. "Theory of Functions and Approximation", Attendee, SARATOV, Russia, 1984

The Newton polyhedron as characteristic of growth of exponential sums. Proc. 4-th Young Scientists' Conf. on Mathematics and Mechanics, Attendee, BAKÜ, Azerbaijan, 1983

Extremely problems in some classes of entire functions of several variables. Proc. 3-th Young Scientists' Conf., Attendee, BAKÜ, Azerbaijan, 1982