

Prof. Dr. ESRA DUMAN

Kişisel Bilgiler

İş Telefonu: [+90 312 202 1094](tel:+903122021094)

E-posta: eduman@gazi.edu.tr

Diğer E-posta: eerkusduman@gmail.com

Web: <https://avesis.gazi.edu.tr/eduman>

Uluslararası Araştırmacı ID'leri

ORCID: 0000-0003-1848-5248

Publons / Web Of Science ResearcherID: AIC-7107-2022

ScopusID: 25936060600

Yoksis Araştırmacı ID: 134010

Eğitim Bilgileri

Doktora, Ankara Üniversitesi, Fen Bilimleri Enstitüsü, Matematik (Dr), Türkiye 1999 - 2005

Yüksek Lisans, Ankara Üniversitesi, Fen Bilimleri Enstitüsü, Matematik (Yl) (Tezli), Türkiye 1996 - 1999

Lisans, Ankara Üniversitesi, Fen Fakültesi, Matematik Bölümü, Türkiye 1991 - 1995

Araştırma Alanları

Matematik, Temel Bilimler

Akademik Unvanlar / Görevler

Prof.Dr., Gazi Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2017 - Devam Ediyor

Doç.Dr., Gazi Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2010 - 2017

Araştırmacı, University of Central Florida, Department of Mathematics, 2015 - 2015

Yrd.Doç.Dr., Gazi Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2007 - 2010

Yrd.Doç.Dr., Çanakkale Onsekiz Mart Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2006 - 2007

Araştırma Görevlisi, Ankara Üniversitesi, Fen Bilimleri Enstitüsü, Matematik (Dr), 1996 - 2005

Yönetilen Tezler

Erkus-Duman E, Bazı özel fonksiyonların q- analogları, Yüksek Lisans, Y.AVCI(Öğrenci), 2019

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Erkus-Duman E., d-ortogonal polinomlar, Yüksek Lisans, G.ORUCOVA(Öğrenci), 2013

Erkus-Duman E., Diskret Değişkenli Klasik Ortogonal Polinomlar, Yüksek Lisans, B.AYATA(Öğrenci), 2012

Erkus-Duman E., Genişletilmiş Lineer Doğrurucu Fonksiyonlar, Yüksek Lisans, E.ÇİMEN(Öğrenci), 2012

Erkus-Duman E., Kesirli Türevlerin Hipergeometrik Fonksiyonlara Uygulamaları, Yüksek Lisans, B.ÜNAL(Öğrenci), 2011

Erkus-Duman E., Özel Fonksiyonların Bazı Özellikleri, Yüksek Lisans, T.MERCAN(Öğrenci), 2009

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

I. A new family of two-variable polynomials based on hermite polynomials

Erkus-Duman E., ÇİFTÇİ H.

MATHEMATICA SLOVACA, cilt.72, sa.4, ss.885-898, 2022 (SCI-Expanded)

II. Gottlieb Polynomials and Their q-Extensions

Erkus-Duman E., Choi J.

MATHEMATICS, cilt.9, sa.13, 2021 (SCI-Expanded)

III. On Some Families of New Constructed Polynomials

Çiftci H., Erkuş-Duman E.

BULLETIN OF THE MALAYSIAN MATHEMATICAL SCIENCES SOCIETY, cilt.43, ss.1111-1125, 2020 (SCI-Expanded)

IV. SOME NEW PROPERTIES OF UNIVARIATE AND MULTIVARIATE GOTTLIEB POLYNOMIALS

Erkus-Duman E.

MISKOLC MATHEMATICAL NOTES, cilt.19, sa.2, ss.835-845, 2018 (SCI-Expanded)

V. Harmonic functions associated with some polynomials in several variables

Tasdelen F., AKTAŞ R., Erkus-Duman E.

TURKISH JOURNAL OF MATHEMATICS, cilt.42, sa.4, ss.1803-1814, 2018 (SCI-Expanded)

VI. Generalized Vieta-Jacobsthal and Vieta-Jacobsthal-Lucas polynomials

Yalcin N. F., TAŞCI D., Erkus-Duman E.

MATHEMATICAL COMMUNICATIONS, cilt.20, sa.2, ss.241-251, 2015 (SCI-Expanded)

VII. GENERATING FUNCTIONS FOR THE GENERALIZED BIVARIATE FIBONACCI AND LUCAS POLYNOMIALS

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JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS, cilt.18, sa.5, ss.815-821, 2015 (SCI-Expanded)

VIII. FAMILIES OF GENERATING FUNCTIONS FOR THE JACOBI AND RELATED MATRIX POLYNOMIALS

ALTIN A., ÇEKİM B., Erkus-Duman E.

ARS COMBINATORIA, cilt.117, ss.257-273, 2014 (SCI-Expanded)

IX. The Laguerre polynomials in several variables

AKTAŞ R., Erkus-Duman E.

MATHEMATICA SLOVACA, cilt.63, sa.3, ss.531-544, 2013 (SCI-Expanded)

X. Extended Jacobi Functions via Riemann-Liouville Fractional Derivative

ÇEKİM B., Erkus-Duman E.

ABSTRACT AND APPLIED ANALYSIS, 2013 (SCI-Expanded)

XI. On a Family of Multivariate Modified Humbert Polynomials

AKTAŞ R., Erkus-Duman E.

SCIENTIFIC WORLD JOURNAL, 2013 (SCI-Expanded)

XII. STATISTICAL APPROXIMATION BY MEANS OF OPERATORS CONSTRUCTED BY q-LAGRANGE

POLYNOMIALS

Erkus-Duman E.

JOURNAL OF COMPUTATIONAL ANALYSIS AND APPLICATIONS, cilt.14, sa.1, ss.67-77, 2012 (SCI-Expanded)

XIII. STATISTICAL KOROVKIN-TYPE THEORY FOR MATRIX-VALUED FUNCTIONS

DUMAN O., Erkus-Duman E.

STUDIA SCIENTIARUM MATHEMATICARUM HUNGARICA, cilt.48, sa.4, ss.489-508, 2011 (SCI-Expanded)

XIV. Statistical approximation properties of high order operators constructed with the Chan-Chyan-Srivastava polynomials

Erkus-Duman E., DUMAN O.

APPLIED MATHEMATICS AND COMPUTATION, cilt.218, sa.5, ss.1927-1933, 2011 (SCI-Expanded)

- XV. **Miscellaneous properties of some multivariable polynomials**
Erkus-Duman E., ALTIN A., AKTAŞ R.
MATHEMATICAL AND COMPUTER MODELLING, cilt.54, ss.1875-1885, 2011 (SCI-Expanded)
- XVI. **MATRIX EXTENSIONS OF POLYNOMIALS IN SEVERAL VARIABLES**
Erkus-Duman E.
UTILITAS MATHEMATICA, cilt.85, ss.161-180, 2011 (SCI-Expanded)
- XVII. **STATISTICAL RATES IN APPROXIMATION BY POSITIVE LINEAR OPERATORS**
Erkus-Duman E.
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- XVIII. **Rates of Ideal Convergence for Approximation Operators**
DUMAN O., Ozarslan M. A., Erkus-Duman E.
MEDITERRANEAN JOURNAL OF MATHEMATICS, cilt.7, sa.1, ss.111-121, 2010 (SCI-Expanded)
- XIX. **On a multivariable extension for the extended Jacobi polynomials**
Altin A., AKTAŞ R., Erkus-Duman E.
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- XX. **Statistical Approximation for Stochastic Processes**
Anastassiou G. A., DUMAN O., Erkus-Duman E.
STOCHASTIC ANALYSIS AND APPLICATIONS, cilt.27, sa.3, ss.460-474, 2009 (SCI-Expanded)
- XXI. **Korovkin Type Error Estimates for Positive Linear Operators Involving Some Special Functions**
Dogru O., Erkus-Duman E.
TURKISH JOURNAL OF MATHEMATICS, cilt.33, sa.1, ss.41-53, 2009 (SCI-Expanded)
- XXII. **A q-extension of the Erkus-Srivastava polynomials in several variables**
Erkus-Duman E.
TAIWANESE JOURNAL OF MATHEMATICS, cilt.12, sa.2, ss.539-543, 2008 (SCI-Expanded)
- XXIII. **Integral-type generalizations of operators obtained from certain multivariate polynomials**
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- XXIV. **Statistical rates on the multivariate approximation theory**
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- XXV. **Statistical approximation of certain positive linear operators constructed by means of the Chan-Chyan-Srivastava polynomials**
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- XXVI. **The q-Lagrange polynomials in several variables**
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- XXVII. **Approximation of continuous periodic functions via statistical convergence**
Duman O., Erkus E.
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- XXVIII. **Families of linear generating functions for polynomials in two variables**
Altin A., Erkus E., Oezarslan M. A.
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- XXIX. **A unified presentation of some families of multivariable polynomials**
Erkus E., Srivastava H. M.
INTEGRAL TRANSFORMS AND SPECIAL FUNCTIONS, cilt.17, sa.4, ss.267-273, 2006 (SCI-Expanded)
- XXX. **On a multivariable extension of the Lagrange-Hermite polynomials**
Altin A., Erkus E.
INTEGRAL TRANSFORMS AND SPECIAL FUNCTIONS, cilt.17, sa.4, ss.239-244, 2006 (SCI-Expanded)
- XXXI. **A Korovkin type approximation theorem in statistical sense**
Erkus E., Duman O.

- STUDIA SCIENTIARUM MATHEMATICARUM HUNGARICA, cilt.43, sa.3, ss.285-294, 2006 (SCI-Expanded)
- XXXII. **A-statistical extension of the Korovkin type approximation theorem**
Erkus E., Duman O.
PROCEEDINGS OF THE INDIAN ACADEMY OF SCIENCES-MATHEMATICAL SCIENCES, cilt.115, sa.4, ss.499-508, 2005 (SCI-Expanded)
- XXXIII. **A note on the Lagrange polynomials in several variables**
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JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, cilt.310, sa.1, ss.338-341, 2005 (SCI-Expanded)

Diger Dergilerde Yayınlanan Makaleler

- I. **Advances in the Continuous Dual Hahn Polynomials**
DUMLUPIÑAR M., DUMAN E.
JOURNAL OF MATHEMATICAL EXTENSION, cilt.17, sa.4, ss.1-18, 2023 (ESCI)
- II. **The Meixner Polynomials in Several Variables**
Özmen N., Erkuş-Duman E.
International Journal of Applied Physics and Mathematics, cilt.9, sa.3, ss.144-151, 2019 (Hakemli Dergi)
- III. **Extended Multivariable Fourth Type Horn Functions**
Düzungün D., Erkuş-Duman E.
Gazi University Journal of Science, cilt.32, sa.1, ss.225-240, 2019 (ESCI)
- IV. **ON THE GOTTLIEB POLYNOMIALS IN SEVERAL VARIABLES**
Erkuş-Duman E., Özmen N.
FACTA UNIVERSITATIS-SERIES MATHEMATICS AND INFORMATICS, cilt.34, ss.927-940, 2019 (ESCI)
- V. **Generating Functions for k-Hypergeometric Functions**
Düzungün D., Erkuş-Duman E.
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- VI. **An Extension of a Class of Generating Functions For The Cesaro Polynomials of Three Variables**
Özmen N., Erkuş-Duman E.
Journal of Science and Arts, cilt.45, sa.4, ss.939-950, 2018 (ESCI)
- VII. **Fibonacci and Lucas Differential Equations**
Erkuş-Duman E., Çiftci H.
Application and applied mathematics, cilt.13, sa.2, ss.756-763, 2018 (ESCI)
- VIII. **Some Generating Functions For a Class of Hypergeometric Polynomials**
Özmen N., Erkuş-Duman E.
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- IX. **Some Families of Generating Functions for the Generalized Cesaro Polynomials**
Özmen N., Erkuş-Duman E.
Journal Of Computational Analysis And Applications, cilt.25, sa.4, ss.670-683, 2018 (Scopus)
- X. **The Laguerre Type d-Orthogonal Polynomials**
Düzungün D., Erkuş-Duman E.
Journal of Science and Arts, cilt.1, sa.42, ss.95-106, 2018 (ESCI)
- XI. **ON THE POISSON CHARLIER POLYNOMIALS**
Özmen N., Erkuş-Duman E.
Serdica Mathematical Journal, cilt.41, ss.457-470, 2015 (Hakemli Dergi)
- XII. **A generalization of the extended Jacobi polynomials in two variables**
Aktaş R., Erkuş-Duman E.
Gazi University Journal of Science, cilt.28, sa.3, ss.503-521, 2015 (Scopus)
- XIII. **New generating functions for the Konhauser matrix polynomials**
Erkuş-Duman E., Çekim B.
Communications de la Faculté des Sciences de l'Université d'Ankara, cilt.63, sa.1, ss.35-41, 2014 (Hakemli Dergi)

- XIV. **Integral Representations for Bessel Matrix Functions**
 Çekim B., Erkuş-Duman E.
 Gazi University Journal of Science, cilt.27, sa.1, ss.663-667, 2014 (Scopus)
- XV. **On a hybrid family of summation integral type operators**
 Gupta V., Erkuş E.
 Journal of Inequalities in Pure and Applied Mathematics, cilt.7, sa.1, ss.1-11, 2006 (Hakemli Dergi)
- XVI. **The multivariate q Lagrange Hermite polynomials**
 Erkuş E.
 International Journal of Computational and Numerical Analysis and Applications, cilt.6, sa.2, ss.143-151, 2004
 (Hakemli Dergi)

Kitap & Kitap Bölümleri

- I. **Extended Multivariable Hypergeometric Functions**
 Düzgün D., Erkuş-Duman E.
 Analysis, Probability, Applications, and Computation, Lindahl K., Lindström T., Rodino L., Toft J., Wahlberg P., Editör,
 Birkhäuser, Cham, Vaxjö, ss.17-25, 2019
- II. **On the Generalized Sylvester Polynomials**
 Özmen N., Erkuş-Duman E.
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 Toft, Patrik Wahlberg, Editör, Birkhäuser, Cham, Vaxjö, ss.47-55, 2019
- III. **On the g-Jacobi Matrix Functions**
 Çekim B., Erkuş-Duman E.
 Advances in Applied Mathematics and Approximation Theory, Anastassiou, Duman, Editör, Springer-Verlag, Zürich,
 ss.73-84, 2013

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **A GENERALIZATION FOR THE HERMITE-BASED APPELL POLYNOMIALS**
 SOYARSLAN G., DUMAN E.
 6 th INTERNATIONAL CONFERENCE ON MULTIDISCIPLINARY SCIENTIFIC STUDIES, İstanbul, Türkiye, 2 - 03
 Haziran 2023, ss.298-305
- II. **SOME NEW RESULTS FOR THE WILSON POLYNOMIALS**
 DUMLUPINAR M., DUMAN E.
 ANKARA INTERNATIONAL CONGRESS ON SCIENTIFIC RESEARCH-VIII, Ankara, Türkiye, 9 - 11 Haziran 2023,
 ss.131-142
- III. **A Generalization of Cesaro Polynomials in Several Variables and the Generalized Lauricella
 Functions**
 Erkus-Duman E., Özmen N.
 7th International Conference on Recent Advanced in Pure and Applied Mathematics, Muğla, Türkiye, 25 Eylül 2020,
 ss.90
- IV. **On Some Generalized Polynomials**
 Korkmaz Düzgün D., Erkus-Duman E.
 7th International Conference on Recent Advanced in Pure and Applied Mathematics, Muğla, Türkiye, 25 Eylül 2020,
 ss.49
- V. **Generating Functions for The Extended MultivariableFourth Type Horn Functions**
 Düzgün D., Erkuş-Duman E.
 The 8th International Conference On Pure and Applied Mathematics, Brussels, Belçika, 22 - 25 Temmuz 2019
- VI. **Generating Functions for k-Hypergeometric Functions**

- Düzungün D., Erkuş-Duman E.
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- VII. **Gottlieb Polynomials in several Variables**
Özmen N., Erkuş-Duman E.
V. Kadın Matematikçiler Derneği Çalıştayı, Diyarbakır, Türkiye, 5 - 07 Mayıs 2018, ss.12
- VIII. **On the generalized Sylvester polynomials**
Erkuş-Duman E., Özmen N.
ISAAC 2017, Vaxjö, İsveç, 14 - 18 Ağustos 2017, ss.19
- IX. **EXTENDED MULTIVARIABLE HYPERGEOMETRIC FUNCTIONS**
Erkuş-Duman E., Düzgün D.
ISAAC 2017, Vaxjö, İsveç, 14 - 18 Ağustos 2017
- X. **Extended Multivariable Fourth Type Horn Functions**
Erkuş-Duman E., Düzgün D.
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- XI. **On the Cesaro polynomials of three variables**
Özmen N., Erkuş-Duman E.
International Conference on Mathematics and Engineering, İstanbul, Türkiye, 10 - 12 Mayıs 2017, ss.378
- XII. **Some New Properties of the Extended Generalized Hypergeometric Functions**
Düzgün D., Erkuş-Duman E.
ETAMM 2016, Perpignan, Fransa, 30 Mayıs - 03 Haziran 2016
- XIII. **On the Generalized Cesaro Polynomials**
Erkuş-Duman E., Özmen N.
ETAMM 2016, Perpignan, Fransa, 30 Mayıs - 03 Haziran 2016
- XIV. **On the Poisson Charlier Polynomials**
Özmen N., Erkuş-Duman E.
International Conference: Mathematics Days in Sofia, Sofija, Bulgaristan, 7 - 10 Temmuz 2014, cilt.41, ss.457-470
- XV. **Some Families of Generating Functions for Laguerre and Charlier Types d Orthogonal Polynomials**
Düzgün D., Erkuş-Duman E.
International Conference on Recenet Developments in Pure and Applied Mathematics - ICRAPAM 2014, Antalya, Türkiye, 6 - 09 Kasım 2014
- XVI. **On the Generalized Bernoulli Euler and Genocchi Polynomials**
Güldoğan E., Erkuş-Duman E.
International Conference on Recenet Developments in Pure and Applied Mathematics - ICRAPAM 2014, Antalya, Türkiye, 6 - 09 Kasım 2014
- XVII. **Some Results For A Family of Multivariable Polynomials**
Özmen N., Erkuş-Duman E.
11th International Conference of Numerical Analysis and Applied Mathematics, Rodos, Yunanistan, 21 - 27 Eylül 2013, cilt.1558, ss.1124-1127
- XVIII. **Çok değişkenli Gottlieb polinomları**
Erkuş-Duman E.
26.Uluslararası Matematik Sempozyumu, Diyarbakır, Türkiye, 4 - 07 Eylül 2013
- XIX. **On the g Jacobi matrix functions**
Çekim B., Erkuş-Duman E.
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- XX. **Laguerre ve Konfluent Hipergeometrik Fonksiyonların Bir Matris Genellemesi**
Çekim B., Erkuş-Duman E.
7. Ankara Matematik Günleri, Ankara, Türkiye, 31 Mayıs - 01 Haziran 2012
- XXI. **Approximation by matrix valued linear positive operators**
Duman O., Erkuş-Duman E.
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- XXII. **Integral representations for a class of polynomials in two variables**

- Erkuş-Duman E.
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- XXIII. **Some Mixed Generating Relations for Some Families of Multivariable Polynomials**
Erkuş-Duman E.
II. Ankara Matematik Günleri, Ankara, Türkiye, 22 - 23 Mayıs 2008
- XXIV. **Pozitif lineer operatörler yardımıyla sürekli periyodik fonksiyonlara istatistiksel yaklaşım**
Erkuş-Duman E., Duman O.
2nd Turkish World Mathematics Symposium, Sakarya, Türkiye, 4 - 07 Temmuz 2007
- XXV. **Çok Değişkenli Polinomların Çeşitli Ailelerinin Ortak Bir Gösterimi**
Erkuş-Duman E.
XIX. Ulusal Matematik Sempozyumu, Kütahya, Türkiye, 22 - 25 Ağustos 2006

Metrikler

Yayın: 77
Atıf (WoS): 469
Atıf (Scopus): 378
H-İndeks (WoS): 12
H-İndeks (Scopus): 11

Ödüller

Erkuş-Duman E., Best Organizer Award, 10Th International Conference On Mechanical And Aerospace Engineering, Belçika, Temmuz 2019

Akademi Dışı Deneyim

Gazi Üniversitesi
University of Central Florida
Çanakkale Onsekiz Mart Üniversitesi
Ankara Üniversitesi