

Prof. SERHAN VARMA

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: B-9003-2018

ScopusID: 41262610400

Yoksis Researcher ID: 111427

Education

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 2008 - 2013

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), Turkey 2006 - 2008

Undergraduate, Ankara University, Fen Fakültesi, Matematik Bölümü, Turkey 2002 - 2006

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Ortogonal polinomların bazı genişletmeleri, Ankara University, Fen Bilimleri Enstitüsü, Matematik (Dr), 2013

Postgraduate, Biortogonal ve q-biortogonal polinomlar, Ankara University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), 2008

Research Areas

Mathematics, Natural Sciences

Academic Positions

Associate Professor, Ankara University, Fen Fakültesi, Matematik Bölümü, 2020 - Continues

Research Assistant, Ankara University, Fen Fakültesi, Matematik Bölümü, 2007 - 2020

Courses

Undergraduate

Calculus II, Undergraduate, 2021 - 2022

Calculus I, Undergraduate, 2022 - 2023

Calculus II, Undergraduate, 2021 - 2022

Fourier Analysis, Undergraduate, 2021 - 2022

Calculus I, Undergraduate, 2022 - 2023
MATHEMATICAL METHODS AND APPLICATIONS, Undergraduate, 2022 - 2023
Calculus I, Undergraduate, 2015 - 2016
Genel Matematik II, Undergraduate, 2014 - 2015
Genel Matematik I, Undergraduate, 2014 - 2015
Diferensiyel Denklemler, Undergraduate, 2014 - 2015

Supervised Theses

VARMA S., Orthogonality of linear combinations of orthogonal polynomials, Postgraduate, B.ZEHRA(Student), 2020

Journal articles indexed in SCI, SSCI, and AHCI

- I. **A Generalization of Szasz Operators by Using the Appell Polynomials of Class A((2))**
VARMA S., SUCU S.
SYMMETRY-BASEL, vol.14, no.7, 2022 (SCI-Expanded)
- II. **Operators Obtained by Using Certain Generating Function for Approximation**
VARMA S., SUCU S.
MATHEMATICS, vol.10, no.13, 2022 (SCI-Expanded)
- III. **Hahn-Appell polynomials and their d-orthogonality**
VARMA S., Yasar B. Y., Ozarslan M. A.
REVISTA DE LA REAL ACADEMIA DE CIENCIAS EXACTAS FISICAS Y NATURALES SERIE A-MATEMATICAS, vol.113, no.3, pp.2127-2143, 2019 (SCI-Expanded)
- IV. **Approximation by Sequence of Operators Involving Analytic Functions**
SUCU S., VARMA S.
MATHEMATICS, vol.7, no.2, 2019 (SCI-Expanded)
- V. **Orthogonality of Quasi-Orthogonal Polynomials**
Bracciali C. F., Marcellan F., VARMA S.
FILOMAT, vol.32, no.20, pp.6953-6977, 2018 (SCI-Expanded)
- VI. **Approximation by Operators Including Generalized Appell Polynomials**
İÇÖZ G., VARMA S., SUCU S.
FILOMAT, vol.30, no.2, pp.429-440, 2016 (SCI-Expanded)
- VII. **Generalization of Jakimovski-Leviatan type Szasz operators**
SUCU S., VARMA S.
APPLIED MATHEMATICS AND COMPUTATION, vol.270, pp.977-983, 2015 (SCI-Expanded)
- VIII. **On an inverse problem for a linear combination of orthogonal polynomials**
Marcellan F., VARMA S.
JOURNAL OF DIFFERENCE EQUATIONS AND APPLICATIONS, vol.20, no.4, pp.570-585, 2014 (SCI-Expanded)
- IX. **Szasz type operators involving Charlier polynomials**
VARMA S., Taşdelen F.
MATHEMATICAL AND COMPUTER MODELLING, no.5-6, pp.118-122, 2012 (SCI-Expanded)
- X. **Generalization of Szasz operators involving Brenke type polynomials**
Varma S., Sucu S., İçöz G.
COMPUTERS & MATHEMATICS WITH APPLICATIONS, no.2, pp.121-127, 2012 (SCI-Expanded)
- XI. **On Some Extensions of Szasz Operators Including Boas-Buck-Type Polynomials**
SUCU S., İÇÖZ G., VARMA S.
ABSTRACT AND APPLIED ANALYSIS, 2012 (SCI-Expanded)
- XII. **On linear positive operators involving biorthogonal polynomial**
İÇÖZ G., Yeşildal F., VARMA S.

- Ars Combinatoria, vol.105, pp.319-331, 2012 (SCI-Expanded)
- XIII. **Biorthogonal matrix polynomials related to Jacobi matrix polynomials**
VARMA S., Taşdelen F.
COMPUTERS & MATHEMATICS WITH APPLICATIONS, no.10, pp.3663-3668, 2011 (SCI-Expanded)
- XIV. **On konhauser matrix polynomials**
VARMA S., ÇEKİM B., Yeşildal F. T.
Ars Combinatoria, vol.100, pp.193-204, 2011 (SCI-Expanded)

Articles Published in Other Journals

- I. **SOME NEW d-ORTHOGONAL POLYNOMIAL SETS OF SHEFFER TYPE**
VARMA S.
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.68, no.1, pp.913-922, 2019 (ESCI)
- II. **Some properties of Konhauser matrix polynomials**
VARMA S., TAŞDELEN YEŞİLDAL F.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.29, no.3, pp.703-709, 2016 (ESCI)
- III. **On a generalization of Szasz operators by multiple Appell polynomials**
VARMA S.
STUDIA UNIVERSITATIS BABES-BOLYAI MATHEMATICA, no.3, pp.361-369, 2013 (ESCI)
- IV. **On a generalization of Szasz Durrmeyer operators with some orthogonal polynomials**
VARMA S., TAŞDELEN YEŞİLDAL F.
Studia Universitatis Babeş-Bolyai Mathematica, vol.58, no.2, pp.225-232, 2013 (ESCI)
- V. **INTEGRAL TYPE MODIFICATION FOR $\langle i \rangle_q$ -LAGUERRE POLYNOMIALS (COMMUNICATED BY PROFESSOR F. MARCELLAN)**
Icoz G. n., VARMA S., TAŞDELEN YEŞİLDAL F.
BULLETIN OF MATHEMATICAL ANALYSIS AND APPLICATIONS, no.3, pp.87-98, 2012 (ESCI)
- VI. **On a different kind of d orthogonal polynomials that generalize the Laguerre polynomials**
VARMA S., TAŞDELEN YEŞİLDAL F.
Mathematica Aeterna, vol.2, no.6, pp.561-572, 2012 (Peer-Reviewed Journal)

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **A Generalization of Szasz Operators Constructed by A Special Kind of Appell Polynomials**
VARMA S.
11th International Eurasian Conference on Mathematical Sciences and Applications, İstanbul, Turkey, 29 August - 01 September 2022
- II. **Orthogonal polynomials, Geronimus transformations and quadrature rules**
VARMA S.
ACTA 2017: Approximation and Computation- Theory and Applications, 30 November - 02 December 2017
- III. **Some new d orthogonal polynomial sets**
VARMA S.
Mathematics: Applied, an International Conference, Ohrid, Macedonia, 21 - 24 August 2016
- IV. **Sheffer tipli d ortogonal polinom kümeleri**
VARMA S.
11. Ankara Matematik Günleri, Turkey, 26 - 27 May 2016
- V. **On a Different Kind of Laguerre Type d Orthogonal Polynomials**
VARMA S., TAŞDELEN YEŞİLDAL F.
International Conference On Applied Analysis and Algebra, 29 June - 02 July 2011, (Summary Text)

VI. Konhauser Matris Polinomları

VARMA S., TAŞDELEN YEŞİLDAL F.

5. Ankara Matematik Günleri, Turkey, 3 - 04 June 2010

Expert Reports

I. Three-variable symmetric and antisymmetric exponential functions and orthogonal polynomials

VARMA S.

2017

Metrics

Publication: 27

Citation (WoS): 255

Citation (Scopus): 291

H-Index (WoS): 8

H-Index (Scopus): 8