

## Prof. SERHAN VARMA

### Personal Information

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

### International Researcher IDs

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

ScopusID: 41262610400

Yoksis Researcher ID: 111427

### Education Information

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 Titles / Tasks

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

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

### Courses

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

## Advising Theses

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

## Published journal articles indexed by 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  $q$ -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)

### Refereed Congress / Symposium Publications in Proceedings

- 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
- 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