

Prof. ESMA YILDIZ ÖZKAN



Personal Information

Email: esmayildiz@gazi.edu.tr

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

Address: Gazi Üniversitesi Fen Fakültesi Matematik Bölümü 06500 Ankara



International Researcher IDs

ScholarID: Hfiyu0kAAAAJ

ORCID: 0000-0003-1283-833X

Publons / Web Of Science ResearcherID: AAA-5403-2021

ScopusID: 56044952100

Yoksis Researcher ID: 203553

Education Information

Doctorate, Gazi University, Fen Fakültesi, Matematik, Turkey 2010 - 2014

Postgraduate, Gazi University, Fen Fakültesi, Matematik, Turkey 2006 - 2009

Undergraduate, Hacettepe University, Eğitim Fakültesi, Ortaöğretim Fen Ve Matematik Alanlar Eğitimi Bölümü, Turkey 1999 - 2005

Foreign Languages

English, B2 Upper Intermediate

German, B2 Upper Intermediate

Certificates, Courses and Trainings

Vocational Training, Courses relating to academic interest and research, The Middle East Institute at Georgia State University , 2012

Foreign Language, Intensive English Program, Georgia State University, 2012

Dissertations

Doctorate, Kompleks q -balazs-szabados operatörlerinin yaklaşım özellikleri, Gazi University, Fen Fakültesi, Matematik Bölümü, 2014

Postgraduate, İki değişkenli q -Meyer-König ve Zeller operatörlerinin Korovkin tipi yaklaşım özellikleri, Gazi University, Fen Fakültesi, Matematik Bölümü, 2009

Research Areas

Functional Analysis, Approximations and Expansions

Academic Titles / Tasks

Professor, Gazi University, Fen Fakültesi, Matematik, 2023 - Continues
Associate Professor, Gazi University, Fen Fakültesi, Matematik, 2017 - 2023
Lecturer PhD, Gazi University, Fen Fakültesi, Matematik, 2014 - 2017
Research Assistant, Gazi University, Fen Fakültesi, Matematik, 2007 - 2014

Academic and Administrative Experience

Farabi Program Institutional Coordinator, Gazi University, Fen Fakültesi, Matematik Bölümü, 2018 - 2019

Courses

Research Project II, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
Mathematics II , Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020
Fuzzy Approximation, Postgraduate, 2021 - 2022
Real Analysis II, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
Research Project I, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
Real Analysis, Postgraduate, 2021 - 2022, 2019 - 2020, 2018 - 2019, 2017 - 2018
Mathematics II, Undergraduate, 2020 - 2021
Real Analysis I, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020
Methods and Thecniques in Mathematics Teaching I , Undergraduate, 2021 - 2022
Mathematics I, Undergraduate, 2021 - 2022
Mathematics II (1), Undergraduate, 2019 - 2020
Mathematics I (2), Undergraduate, 2020 - 2021, 2018 - 2019
Mathematics I (1), Undergraduate, 2020 - 2021
Mathematics II (2), Undergraduate, 2019 - 2020, 2018 - 2019
Mathematics I (1), Undergraduate, 2019 - 2020, 2018 - 2019
Mathematics II (1), Undergraduate, 2018 - 2019
Mathematics II (2), Undergraduate, 2018 - 2019
Approximation in Analytic Functions Space I, Postgraduate, 2019 - 2020, 2018 - 2019
Mathematics I (2), Undergraduate, 2019 - 2020, 2018 - 2019
Mathematics I (1), Undergraduate, 2019 - 2020, 2018 - 2019
Mathematics II (12), Undergraduate, 2017 - 2018
Mathematics II (13), Undergraduate, 2017 - 2018
Mathematics II (11), Undergraduate, 2017 - 2018
Mathematics II (10), Undergraduate, 2017 - 2018

Advising Theses

Yıldız Özkan E., Approximation of generalized balazs operators, Doctorate, G.AKSOY(Student), 2023
Yıldız Özkan E., Approximation by a class of Bernstein-type rational functions, Postgraduate, A.Elif(Student), 2022
Yıldız Özkan E., Approximation of q-Baskakov-Durrmeyer type operators, Postgraduate, B.CÖMERT(Student), 2021
Yıldız Özkan E., Approximation Of q-Stancu-Beta Type Operators, Postgraduate, M.KORKMAZ(Student), 2021

Designed Lessons

Yıldız Özkan E., Fuzzy Approximation, Postgraduate, 2020 - 2021
Yıldız Özkan E., Methods and Thecniques in Mathematics Teaching I, Undergraduate, 2017 - 2018

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Approximation results by fuzzy Bernstein type rational functions via interval-valued fuzzy number**
Yıldız Özkan E., Hazarika B.
SOFT COMPUTING, vol.27, no.11, pp.6893-6901, 2023 (SCI-Expanded)
- II. **A New Kantorovich-Type Rational Operator and Inequalities for Its Approximation**
Yildiz Ozkan E.
MATHEMATICS, vol.10, no.12, 2022 (SCI-Expanded)
- III. **Approximation by Tensor-Product Kind Bivariate Operator of a New Generalization of Bernstein-Type Rational Functions and Its GBS Operator**
Yildiz Ozkan E., Aksoy G.
MATHEMATICS, vol.10, no.9, 2022 (SCI-Expanded)
- IV. **Some inequalities and numerical results estimating error of approximation for tensor product kind bivariate quantum beta-type operators and pertaining to GBS variant**
Yildiz Ozkan E.
JOURNAL OF INEQUALITIES AND APPLICATIONS, vol.2022, no.1, 2022 (SCI-Expanded)
- V. **Inequalities for Approximation of New Defined Fuzzy Post-Quantum Bernstein Polynomials via Interval-Valued Fuzzy Numbers**
Yildiz Ozkan E.
SYMMETRY-BASEL, vol.14, no.4, 2022 (SCI-Expanded)
- VI. **On a New Generalization of Bernstein-Type Rational Functions and Its Approximation**
Yildiz Ozkan E., Aksoy G.
MATHEMATICS, vol.10, no.6, 2022 (SCI-Expanded)
- VII. **INEQUALITIES AND NUMERICAL RESULTS OF APPROXIMATION FOR BIVARIATE q -BASKAKOV-DURRMEYER TYPE OPERATORS INCLUDING q -IMPROPER INTEGRAL**
Yildiz Ozkan E.
Journal of Mathematical Inequalities, vol.16, no.2, pp.499-512, 2022 (SCI-Expanded)
- VIII. **Quantitative Estimates for the Tensor Product (p,q) -Balazs-Szabados Operators and Associated Generalized Boolean Sum Operators**
Yildiz Ozkan E.
FILOMAT, vol.34, no.3, pp.779-793, 2020 (SCI-Expanded)
- IX. **Approximation by (p,q) -Analogue of Balazs-Szabados Operators**
Yildiz Ozkan E., Ispir N.
FILOMAT, vol.32, no.6, pp.2257-2271, 2018 (SCI-Expanded)
- X. **Approximation by Complex Bivariate Balazs-Szabados Operators**
Yildiz Ozkan E.
BULLETIN OF THE MALAYSIAN MATHEMATICAL SCIENCES SOCIETY, vol.39, no.1, pp.1-16, 2016 (SCI-Expanded)
- XI. **Approximation properties of bivariate complex q -Balazs-Szabados operators of tensor product kind**
Yıldız Özkan E.
JOURNAL OF INEQUALITIES AND APPLICATIONS, 2014 (SCI-Expanded)
- XII. **Statistical Approximation Properties of q -Balazs-Szabados-Stancu Operators**
Yildiz Ozkan E.
FILOMAT, vol.28, no.9, pp.1943-1952, 2014 (SCI-Expanded)
- XIII. **Approximation properties of complex q -Balazs-Szabados operators in compact disks**
Ispir N., Yıldız Özkan E.
JOURNAL OF INEQUALITIES AND APPLICATIONS, 2013 (SCI-Expanded)

Articles Published in Other Journals

- I. **Some new inequalities and numerical results of bivariate Bernstein-type operator including Bézier basis and its GBS operator**
Yıldız Özkan E., Akpınar N. N.
Mathematical Foundations of Computing, vol.6, no.3, pp.500-511, 2023 (ESCI)
- II. **Approximation by Fuzzy (p, q)-Bernstein-Chlodowsky Operators**
Yildiz Ozkan E.
Sahand Communications in Mathematical Analysis, vol.19, no.2, pp.113-132, 2022 (ESCI)
- III. **Approximation properties of Kantorovich type q-Balazs-Szabados operators**
Yildiz Ozkan E.
DEMONSTRATIO MATHEMATICA, vol.52, no.1, pp.10-19, 2019 (Peer-Reviewed Journal)
- IV. **Approximation Properties of Bivariate Generalization of Meyer König And Zeller Type Operators**
Ince Ilarslan H. G., Yildiz Ozkan E.
ANALELE STIINTIFICE ALE UNIVERSITATII AL I CUZA DIN IASI - MATEMATICA, vol.63, no.1, pp.181-191, 2017 (Scopus)
- V. **An Upper Estimate of Complex q-Balazs-Szabados-Kantorovich Operators on Compact Disks**
Yildiz Ozkan E.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.29, no.2, pp.479-486, 2016 (ESCI)

Books & Book Chapters

- I. **Approximation Process of Bernstein Type Rational Functions**
Yıldız Özkan E.
Livre De Lyon, Lyon, 2021
- II. **Current Academic Studies in Science and Mathematics Sciences**
Yıldız D. E. (Editor), Yıldız Özkan E. (Editor)
Livre De Lyon, Lyon, 2021
- III. **Volkov Type and Weighted Approximation Theorems for Bivariate q-Baskakov-Durrmeyer Type Operators**
Yıldız Özkan E., Cömert B.
in: Theory and Practice in Mathematics and Natural Sciences, Canan Demir, Editor, Livre De Lyon, Lyon, pp.53-63, 2021
- IV. **Volkov Type and Weighted Approximation Theorems for Bivariate q-Stancu-Beta Type Operators**
Yıldız Özkan E., Korkmaz M.
in: Theory and Practice in Mathematics and Natural Sciences, Canan Demir, Editor, Livre De Lyon, Lyon, pp.43-52, 2021
- V. **Fen ve Matematik Bilimlerinde Akademik Çalışmalar**
Yildiz Özkan E. (Editor)
Livre De Lyon, Lyon, 2020
- VI. **On Fuzzy Bernstein Polynomials**
Yıldız Özkan E.
in: Academic Studies Science and Mathematics, Seçkin Turgay, Editor, Gece Publishing, Ankara, pp.1-12, 2020
- VII. **Approximation by Fuzzy Bernstein Type Rational Functions**
Yıldız Özkan E.
in: Academic Studies in Sience and Mathematics Sciences, Sema İşisağ Üçüncü, Tanja V. Soldatović, Editor, Livre de Lyon, Lyon, pp.71-85, 2020
- VIII. **İki Değişkenli q-Balazs-Szabados-Stancu Operatörleri ve Bu Operatörlerin Genelleştirilmiş Boolean Toplam Operatörlerinin Yaklaşım Özellikleri**
Yıldız Özkan E.

in: Fen Bilimleri ve Matematik Alanında Çalışmalar, Aina Adeyinka Temitope, Demirçalı Aykut, Editor, Gece Kitapevi, Ankara, pp.2538, 2018

IX. An Upper Quantitative Estimate on a Circular Annulus for Complex Modified Phillips Operators

Yıldız Özkan E.

in: Innovative Approaches in Science and Mathematics, Aka Sağlıkler Hüsniye, Çoğal Sadık, Köroğlu Seçkin, Editor, Gece Publishing, Ankara, pp.43-50, 2018

X. Weighted Statistical Approximation of Kantorovich Type q -Balazs-Szabados Operators Including the Riemann Type q -Integral

Yıldız Özkan E.

in: Academic Researches in Mathematic and Sciences, Yıldırım Zeki, Editor, Gece Publishing, Ankara, pp.9-19, 2018

XI. Riemann Tip q -İntegral İçeren İki Değişkenli q -Balazs-Szabados-Kantorovich Operatörlerinin Yaklaşım Özellikleri

Yıldız Özkan E.

in: Fen Bilimleri ve Matematik Alanında Yenilikçi Yaklaşımlar, Aka Sağlıkler Hüsniye, Çoğal Sadık, Köroğlu Seçkin, Editor, Gece Kitaplığı, Ankara, pp.75-88, 2018

Scientific Refereeing

OPEN MATHEMATICS, SCI Journal, February 2022

Metrics

Publication: 42

Citation (WoS): 90

Citation (Scopus): 91

H-Index (WoS): 7

H-Index (Scopus): 7

Scholarships

Domestic Graduate Scholarship, TUBITAK, 2006 - 2009