

Asst. Prof. MELEK SOFYALIOĞLU AKSOY

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Gazi University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 2014 - 2019

Postgraduate, Izmir Institute Of Technology, Mühendislik Ve Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli) (İngilizce), Turkey 2011 - 2014

Undergraduate, Ege University, Fen Fakültesi, Matematik Bölümü, Turkey 2006 - 2011

Dissertations

Doctorate, Baskakov operatörlerinin bazı genelleştirmelerinin yaklaşım özellikleri, Gazi University, Fen Bilimleri Enstitüsü, Matematik (Dr), 2019

Postgraduate, Numerical solutions of the reaction-diffusion equations by exponential integrators, Izmir Institute Of Technology, Mühendislik Ve Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli) (İngilizce), 2014

Academic Titles / Tasks

Assistant Professor, Ankara Hacı Bayram Veli University, Polatlı Faculty Of Arts And Sciences, Department Of Mathematics, 2022 - Continues

Research Assistant, Ankara Hacı Bayram Veli University, Polatlı Faculty Of Arts And Sciences, Department Of Mathematics, 2018 - 2022

Research Assistant, Gazi University, Polatlı Fen-Edebiyat Fakültesi, Matematik Bölümü, 2013 - 2018

Research Assistant, Izmir Institute Of Technology, Mühendislik Ve Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli) (İngilizce), 2013 - 2013

Academic and Administrative Experience

Fakülte Yönetim Kurulu Üyesi, Ankara Hacı Bayram Veli University, Polatlı Faculty Of Arts And Sciences, 2022 - Continues

Fakülte Kurulu Üyesi, Ankara Hacı Bayram Veli University, Polatlı Faculty Of Arts And Sciences, 2022 - Continues

Deputy Head of Department, Ankara Hacı Bayram Veli University, Polatlı Faculty Of Arts And Sciences, Department Of Mathematics, 2022 - Continues

Ankara Hacı Bayram Veli University, 2018 - Continues

Courses

Diferensiyel Denklemler, Undergraduate, 2021 - 2022
Latex ile Döküman Hazırlama, Undergraduate, 2021 - 2022, 2020 - 2021
Nümerik Analiz I, Undergraduate, 2021 - 2022, 2020 - 2021
Nümerik Analiz II, Undergraduate, 2020 - 2021
Matematiksel Modelleme, Undergraduate, 2020 - 2021
Bilgisayar Uygulamalı Matematik, Undergraduate, 2020 - 2021
Analiz I, Undergraduate, 2019 - 2020
Analiz II, Undergraduate, 2019 - 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Approximation by bivariate Bernstein–Kantorovich–Stancu operators that reproduce exponential functions**
Su L., Kanat K., Sofyaloğlu Aksoy M., Kisakol M.
Journal of Inequalities and Applications, vol.2024, no.1, 2024 (SCI-Expanded)
- II. **Parametric Generalization of the Modified Bernstein Operators**
Sofyaloğlu M., Kanat K., ÇEKİM B.
Filomat, vol.36, no.5, pp.1699-1709, 2022 (SCI-Expanded)
- III. **Approximation by Szász-Baskakov Operators Based on Boas-Buck-Type Polynomials**
Sofyaloğlu M., Kanat K.
Filomat, vol.36, no.11, pp.3655-3673, 2022 (SCI-Expanded)
- IV. **Some approximation results for the new modification of bernstein-beta operators**
Cai Q., Sofyaloğlu M., Kanat K., ÇEKİM B.
AIMS Mathematics, vol.7, no.2, pp.1831-1844, 2022 (SCI-Expanded)
- V. **Parametric generalization of the Meyer–König–Zeller operators**
Sofyaloğlu M., Kanat K., ÇEKİM B.
Chaos, Solitons and Fractals, vol.152, 2021 (SCI-Expanded)
- VI. **Approximation properties of the Post-Widder operators preserving $e^{2ax}, a > 0$**
Sofyaloğlu M., Kanat K.
Mathematical Methods in the Applied Sciences, vol.43, no.7, pp.4272-4285, 2020 (SCI-Expanded)
- VII. **Approximation properties of generalized Baskakov–Schurer–Szász–Stancu operators preserving $e^{-2ax}, a > 0$**
Sofyaloğlu M., Kanat K.
Journal of Inequalities and Applications, vol.2019, 2019 (SCI-Expanded)
- VIII. **Some approximation results for Stancu type Lupas–Schurer operators based on (p, q) -integers**
Kanat K., Sofyaloğlu M.
Applied Mathematics and Computation, vol.317, pp.129-142, 2018 (SCI-Expanded)
- IX. **Some approximation results for (p, q) -lupas-schurer operators**
Kanat K., Sofyaloğlu M.
Filomat, vol.32, no.1, pp.217-229, 2018 (SCI-Expanded)
- X. **Approximation by (p, q) -Lupas–Schurer–Kantorovich operators**
Kanat K., Sofyaloğlu M.
Journal of Inequalities and Applications, vol.2018, 2018 (SCI-Expanded)

Articles Published in Other Journals

- I. **New modification of the Post Widder operators preserving exponential functions**
Sofyaloğlu Aksoy M.
Arab Journal of Basic and Applied Sciences, vol.31, no.1, pp.93-103, 2024 (Scopus)

- II. **Approximation by the Parametric Generalizations of the Modified Bernstein-Durrmeyer Operators**
Kanat K., Sofyalioğlu Aksoy M., Erdal S.
Levantine Journal of Applied Sciences, vol.2, no.2, pp.19-24, 2022 (Peer-Reviewed Journal)
- III. **Approximation by the new modification of Bernstein-Stancu operators**
SOFYALIOĞLU M., KANAT K.
Cumhuriyet Science Journal, 2021 (Peer-Reviewed Journal)
- IV. **On stancu type szász-mirakyan-durrmeyer operators preserving $e^{2ax}, a > 0$**
Kanat K., Sofyalioğlu M.
Gazi University Journal of Science, vol.34, no.1, pp.196-209, 2021 (ESCI)
- V. **Approximation Properties of Stancu-Type (p,q) -Baskakov Operators**
KANAT K., SOFYALIOĞLU M.
Bitlis Eren Üniversitesi Fen Bilimleri Dergisi, vol.8, no.3, pp.889-902, 2019 (Peer-Reviewed Journal)
- VI. **On Stancu type generalization of (p,q) -Baskakov-Kantorovich operators**
Kanat K., Sofyalioğlu M.
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.68, no.2, pp.1995-2013, 2019 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **On Parametric Generalization of Kantorovich-Type Operators**
KANAT K., SOFYALIOĞLU M., ERDAL S.
International Symposium on Engineering, Natural and Social Sciences (ISENS-21), Turkey, 25 - 28 November 2021
- II. **Some Results for Parametric Generalization of Certain Linear Positive Operators**
SOFYALIOĞLU M.
International Symposium on Engineering, Natural and Social Sciences (ISENS-21), Turkey, 25 November 2021
- III. **New Results for Bernstein Operators**
SOFYALIOĞLU M., KANAT K.
International Conference on Mathematics and its Applications in Science and Engineering (ICMASE 2021), Turkey, 01 July 2021
- IV. **On Approximation Properties of Szász Mirakyan Operators**
SOFYALIOĞLU M., KANAT K.
INTERNATIONAL CONFERENCE ON MATHEMATICS AND ITS APPLICATIONS IN SCIENCE AND ENGINEERING, Ankara, Turkey, 9 - 10 July 2020
- V. **On Generalization of Szász-Mirakyan-Durrmeyer Operators**
SOFYALIOĞLU M., KANAT K.
The 8th International Conference on Pure and Applied Mathematics (ICPAM 2019), Brüksel, Belgium, 22 - 25 July 2019
- VI. **Modifiye Edilmiş Baskakov Operatörlerinin Yaklaşım Özellikleri**
SOFYALIOĞLU M., KANAT K.
14. Ankara Matematik Günleri (AMG 2019), Ankara, Turkey, 28 - 29 June 2019
- VII. **On Linear Positive Operators Preserving Exponential Functions**
SOFYALIOĞLU M., KANAT K.
International Workshop on Dynamical Systems and Applications (IWDSA 2019) In Memory of Prof. Dr. Aydın Tiryaki, Ankara, Turkey, 3 - 04 May 2019
- VIII. **Generalized Baskakov Operators Preserving Exponential Functions**
SOFYALIOĞLU M., KANAT K.
International Conference on Applied Analysis and Mathematical Modeling ICAAMM19, İstanbul, Turkey, 10 - 13 March 2019
- IX. **On Post-Widder Operators Preserving Exponential Functions**
SOFYALIOĞLU M., KANAT K.

The First International Workshop Constructive Mathematical Analysis, Konya, Turkey, 11 - 13 February 2019

- X. **On (p,q) -Analogue of Baskakov-Stancu-Kantorovich Operators**
SOFYALIOĞLU M., KANAT K.
7th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2018), Kiev, Ukraine,
28 - 31 August 2018
- XI. **Approximation by Baskakov-Stancu Operators Based On (p, q) -Integers**
SOFYALIOĞLU M., KANAT K.
International Conference on Mathematics "An Istanbul Meeting for World Mathematicians" Minisymposium on
Approximation Theory Minisymposium on Math Education, İstanbul, Turkey, 3 - 06 July 2018
- XII. **Some Approximation Results for Lupaş-Kantorovich-Schurer Operators Based on (p,q) - Calculus**
SOFYALIOĞLU M., KANAT K.
6th International Eurasian Conference on Mathematical Sciences and Applications, Budapest, Hungary, 15 - 18
August 2017
- XIII. **On (p,q) -Analogue of Lupaş-Schurer Operators**
KANAT K., SOFYALIOĞLU M.
International Conference on Mathematics and Mathematics Education, Şanlıurfa, Turkey, 11 - 13 May 2017
- XIV. **On (p,q) -Analogue of Lupaş-Schurer-Stancu Operators**
SOFYALIOĞLU M., KANAT K.
International Conference on Mathematics and Mathematics Education, Şanlıurfa, Turkey, 11 - 13 May 2017

Metrics

Publication: 30

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H-Index (WoS): 1

H-Index (Scopus): 4