Assoc. Prof. İSMAİL ASLAN

Personal Information

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International Researcher IDs
ScholarID: R5ubnEMAAAAJ
ORCID: 0000-0001-9753-6757
Publons / Web Of Science ResearcherID: L-2566-2018
ScopusID: 57194781083
Yoksis Researcher ID: 222126

Education Information

Doctorate, Tobb University Of Economics And Technology, Institute Of Science, Matematik, Turkey 2014 - 2019
Postgraduate, Tobb University Of Economics And Technology, Institute Of Science, Matematik Bölümü, Turkey 2012 -
2014
Undergraduate, Hacettepe University, Fen Fakültesi, Matematik Bölümü, Turkey 2006 - 2011

Foreign Languages

English, C2 Mastery

Certificates, Courses and Trainings

Other, Image Processing Onramp, Matlab Organization, 2020

Dissertations

Doctorate, Study of Approximation Properties fof Nonlinear Operators via Summability Process, Tobb University Of
Economics And Technology, Institute Of Science, Matematik, 2019
Postgraduate, Application of Summability Process on Baskakov-type Korovkin Theory, Tobb University Of Economics
And Technology, Institute Of Science, Matematik (Yl) (Tezli), 2014

Research Areas

Mathematics, Sequences, Series, Summability, Integral Equations, Integral Transformations, Computational Calculation,
Measure and Integration, Numerical Analysis, Approximations and Expansions, Natural Sciences

Academic Titles / Tasks

Associate Professor, Hacettepe University, Fen Fakültesi, Matematik Bölümü, 2022 - Continues

Assistant Professor, Hacettepe University, Fen Fakültesi, Matematik Bölümü, 2022 - 2022

Research Assistant PhD, Hacettepe University, Fen Fakültesi, Matematik Bölümü, 2019 - 2022

Research Assistant, Hacettepe University, Fen Fakültesi, Matematik Bölümü, 2017 - 2019

Research Assistant, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Mathematics, 2014 - 2017

Courses

Mathematics II, Undergraduate, 2021 - 2022

Mathematics 2, Undergraduate, 2021 - 2022

Basic Mathematics I, Undergraduate, 2021 - 2022

Mathematics for Engineers, Undergraduate, 2021 - 2022

Basic Mathematics, Undergraduate, 2020 - 2021

General Mathematics 2, Undergraduate, 2019 - 2020

Mathematics, Undergraduate, 2019 - 2020

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Approximation by Kantorovich-type max-min operators and its applications**
Gökçer T. Y., Aslan İ.
Applied Mathematics and Computation, vol.423, 2022 (SCI-Expanded)

II. **Approximation to the classical fractals by using non-affine contraction mappings**
Aslan N., Aslan İ.
PORTUGALIAE MATHEMATICA, vol.79, no.1/2, pp.1-16, 2022 (SCI-Expanded)

III. **Multivariate approximation in phi-variation for nonlinear integral operators via summability methods**
ASLAN İ.
TURKISH JOURNAL OF MATHEMATICS, vol.46, pp.277-298, 2022 (SCI-Expanded)

IV. **Nonlinear approximation in N-dimension with the help of summability methods**
ASLAN İ., DUMAN O.
REVISTA DE LA REAL ACADEMIA DE CIENCIAS EXACTAS FISICAS Y NATURALES SERIE A-MATEMATICAS, vol.115, no.3, 2021 (SCI-Expanded)

V. **Approximation by Sampling-Type Nonlinear Discrete Operators in phi-Variation**
ASLAN İ.
FILOMAT, vol.35, no.8, pp.2731-2746, 2021 (SCI-Expanded)

VI. **Convergence in Phi-Variation and Rate of Approximation for Nonlinear Integral Operators Using Summability Process**
ASLAN İ.
MEDITERRANEAN JOURNAL OF MATHEMATICS, vol.18, no.1, 2020 (SCI-Expanded)

VII. **Approximation by nonlinear integral operators via summability process**
ASLAN İ., DUMAN O.
MATHEMATISCHE NACHRICHTEN, vol.293, no.3, pp.430-448, 2020 (SCI-Expanded)

VIII. **Characterization of absolute and uniform continuity**
ASLAN İ., DUMAN O.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.49, no.5, pp.1550-1565, 2020 (SCI-Expanded)

IX. **Summability on Mellin-type nonlinear integral operators**
ASLAN İ., Duman O.
INTEGRAL TRANSFORMS AND SPECIAL FUNCTIONS, vol.30, no.6, pp.492-511, 2019 (SCI-Expanded)

X. **A summability process on Baskakov-type approximation**
Aslan I., Duman O.
PERIODICA MATHEMATICA HUNGARICA, vol.72, no.2, pp.186-199, 2016 (SCI-Expanded)

Articles Published in Other Journals

I. **APPROXIMATION BY PSEUDO-LINEAR DISCRETE OPERATORS**
ASLAN İ., Gokcer T. Y.
MATHEMATICAL FOUNDATIONS OF COMPUTING, 2021 (ESCI)
II. **APPROXIMATION BY SAMPLING TYPE DISCRETE OPERATORS**
ASLAN İ.
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS,
vol.69, no.1, pp.969-980, 2020 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

I. **Kantorovich tipindeki Maksimum-Minimum Operatörleri ve Görüntü İşleme Üzerine Uygulamaları**
ASLAN İ., GÖKÇER T. Y.
Yaklaşımlar Teorisi ve Uygulamaları Çalıştayı, Ankara, Turkey, 4 - 05 March 2022
II. **Φ-variational Approximation by Mellin-type Nonlinear Integral Operators**
ASLAN İ.
Studies on Scientific Developments in Geometryi Algebra and Applied Mathematics, Ankara, Turkey, 1 - 03
February 2022
III. **Sampling-type Nonlinear Discrete Operators and Applications to the Image Processing**
ASLAN İ.
8th International Conference on Recent Advances in Pure and Applied Mathematics, Muğla, Turkey, 24 - 27
September 2021
IV. **Approximation to fractals by means of non-affine contraction mappings**
ASLAN İ., ASLAN N.
The Second International Conference on Applied Mathematics in Engineering, Balıkesir, Turkey, 1 - 03 September
2021
V. **Approximation properties of pseudo-linear operators with discrete kernels and application to image
processing**
ASLAN İ., GÖKÇER T. Y.
INTERNATIONAL SOCIETY FOR ANALYSIS ITS APPLICATIONS AND COMPUTATION, Gent, Belgium, 2 - 06 August
2021
VI. **Approximation by kantorovich variant of max-min operators with applications to digital image
processing**
ASLAN İ., GÖKÇER T. Y.
International Conference on Mathematics and Its Applications in Science and Engineering (ICMASE 2021),
Salamanca, Mexico, 1 - 02 July 2021
VII. **Approximation by discrete operators of Max-Product kind**
Aslan İ., Gökçer T. Y.
International Online Workshop on Approximation Theory, Ivano-Frankivsk, Ukraine, 19 - 21 March 2021, pp.6
VIII. **Approximation by discrete operators of Max-Min kind**
Gökçer T. Y., Aslan İ.
International Online Workshop on Approximation Theory, Ivano-Frankivsk, Ukraine, 19 - 21 March 2021, pp.16
IX. **Some Approximation Properties of Nonlinear Discrete Operators of Sampling-type**
Aslan İ.

7th INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN PURE AND APPLIED MATHEMATICS, Muğla, Turkey, 25 - 28 September 2020

X. **N-dimensional φ-variation of nonlinear discrete operators**
ASLAN İ.
3rd International Conference on Pure and Applied Mathematics, Van, Turkey, 3 - 05 September 2020

XI. **Nonlinear Approximation in Discrete Operators of Sampling-type**
ASLAN İ.
International Conference on Mathematics and its Applications in Science and Engineering, Ankara, Turkey, 9 - 10 July 2020

XII. **Convergence in phi-variation and Rate of Approximation in N dimension with the Help of Summability Method**
ASLAN İ.
Multivariate Approximation: Theory and Applications, Perugia, Italy, 16 - 18 January 2020

XIII. **Summability of Nonlinear Integral Operators in the Space of Bounded φ-variation**
ASLAN İ.
Summability of Nonlinear Integral Operators in the Space of Bounded φ-variation, Brüksel, Belgium, 22 - 25 July 2019

XIV. **Application of Summability Process on the Mellin-type Nonlinear Integral Operators**
ASLAN İ., DUMAN O.
THE FIRST INTERNATIONAL WORKSHOP ON CONSTRUCTIVE MATHEMATICAL ANALYSIS, Konya, Turkey, 11 - 13 February 2019

XV. **Summability method in the approximation by nonlinear integral operators in N-dimension BV-space**
ASLAN İ., DUMAN O.
2018 The 7th International Conference on Pure and Applied Mathematics, Budapest, Hungary, 10 - 13 July 2018

XVI. **Lineer Olmayan İntegral Operatörleriyle Yaklaşımda Bell-Tipinde Toplanabilme Metodu**
ASLAN İ., DUMAN O.
13. Ankara Matematik Günleri, Ankara, Turkey, 27 - 28 April 2018

XVII. **Approximation by nonlinear integral operators with the help of summation methods**
ASLAN İ., DUMAN O.
The International Society for Analysis, its Applications and Computation, Vaxjö, Sweden, 14 - 18 August 2017

XVIII. **Summability Process on the Approximation by Nonlinear Integral Operators of Convolution Type**
ASLAN İ., DUMAN O.
International Conference on Mathematics and Mathematics Education, Şanlıurfa, Turkey, 11 - 13 May 2017

XIX. **A Generalized Version of the Korovkin Theory**
ASLAN İ., DUMAN O.
Emerging Trends In Applied Mathematics And Mechanics, Perpignan, France, 30 May - 03 June 2016

XX. **Application of Summability Process on Baskakov Type Korovkin Theory**
ASLAN İ., DUMAN O.
International Conference on Recent Advances in Pure and Applied Mathematics, Antalya, Turkey, 6 - 09 November 2014

XXI. **Summability Process on the Baskakov type Approximation theory**
ASLAN İ., DUMAN O.
International Conference Mathematics Days In Sofia, Sofya, Bulgaria, 7 - 10 July 2014

Supported Projects

Activities in Scientific Journals

HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, Assistant Editor/Section Editor, 2021 - Continues
Researches in Mathematics, Committee Member, 2021 - Continues

Scientific Refereeing

TUBITAK Project, 1002 - Quick Support Program, Hacettepe University, Turkey, August 2021

Tasks In Event Organizations

Aslan İ., 12. Ankara Matematik Günleri, Scientific Congress, Ankara, Turkey, Mayıs 2017
Aslan İ., AMAT 2015 - 3rd International Conference on Applied Mathematics and Approximation Theory, Scientific
Congress, Ankara, Turkey, Mayıs 2015

Metrics

Publication: 33
Citation (WoS): 60
Citation (Scopus): 50
H-Index (WoS): 5
H-Index (Scopus): 4

Invited Talks

Toplam Sürecinin Lineer Olmayan İntegral Operatörleri Üzerindeki Etkileri, Seminar, Ankara Üniversitesi, Turkey, March
2019

Scholarships

Full scholarship for doctoral education, University, 2014 - 2019
2211-A Ph.D. Scholarship, TUBITAK, 2016 - 2018
Full scholarship for master education, University, 2012 - 2014

Awards

Aslan İ., Excellent Oral Presentation Certificate, 2018 International Conference On Pure And Apllied Mathematics, July
2018

Representation and Promotion Activities

Institutional Promotion, Hacettepe Üniversitesi, Turkey, Ankara, 2022 - 2022