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## **Personal Information**

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## **Education Information**

Doctorate, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, Turkey 1992 - 1999 Postgraduate, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, Turkey 1989 - 1991 Undergraduate, Marmara University, Faculty Of Arts And Sciences, Mathematics, Turkey 1984 - 1988

## Dissertations

Doctorate, K tek sayı olmak üzere (v, k, ^)-simetrik dizaynın C-kodu için bir olasılık fonksiyonu tayini ve düzensizlik ölçüsü önerisi, Yildiz Technical University, Faculty of Arts & Science, Department of Mathemeatics, 2000

## **Research Areas**

Mathematics, Differential Equations, Natural Sciences

## Academic Titles / Tasks

Associate Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2024 -Continues

Assistant Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2018 - 2024 Assistant Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2003 - 2018

## **Supervised Theses**

Özkan A., INVESTIGATION OF THE WAVE EQUATIONS IN OPTICAL FIBER, Postgraduate, S.Demirkaya(Student), Continues

Özkan A., ON R-IDEALS OF A RING WITHOUT IDENTITY, Postgraduate, S.Tekeş(Student), Continues Özkan A., LİNEER OLMAYAN KISMİ DİFERANSİYEL DENKLEMLERİN ANALİTİK ÇÖZÜMLERİ İÇİN YÖNTEMLERİN ARAŞTIRLIMASI, Postgraduate, N.Özdemir(Student), 2024

Özkan A., Değişmeli Olmayan Aykırı Polinom Halkaları Üzerinde Tanımlı DNA kodlar, Doctorate, F.GÜRSOY(Student), 2019 Özkan A., 10. sınıf öğrencilerinin analitik geometride hata ve kavram yanılgılarının analizi, Postgraduate, S.KARAPIÇAK(Student), 2018 Özkan A., Sonlu cisimler üzerinde ayrık fourier dönüşümü ve cebirsel kodlama teorisindeki bazı uygulamaları,

Postgraduate, S.SELÇUK(Student), 2011

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. A novel study of analytical solutions of some important nonlinear fractional differential equations in fluid dynamics
   Özkan A., Özkan E. M.
   MODERN PHYSICS LETTERS B, vol.39, no.11, pp.1-17, 2025 (SCI-Expanded)
- II. A study on analytical solutions of one of the important shallow water wave equations and its stability analysis Deniz H. A., Özkan E. M., Özkan A.

PHYSICA SCRIPTA, vol.99, no.12, pp.1-15, 2024 (SCI-Expanded)

III. A view of optical soliton solution of the coupled Schrödinger Equation with a different approach Özkan A., Özdemir N., Özkan E. M.

PHYSICA SCRIPTA, vol.99, no.8, pp.1-12, 2024 (SCI-Expanded)

IV. A view of solitary wave solutions to the fractional DNA Peyrard-Bishop equation via a new approach Özkan A.

PHYSICA SCRIPTA, vol.99, no.5, pp.1-16, 2024 (SCI-Expanded)

V. A study of novel optical solutions of the space-time fractional cubic nonlinear Schrödinger equation ÖZKAN A., ÖZKAN E. M.

Optical and Quantum Electronics, vol.56, no.2, 2024 (SCI-Expanded)

VI. On the soliton solutions of some time conformable equations in fluid dynamics Özkan A.

INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.38, no.2, pp.1-14, 2024 (SCI-Expanded)

VII. On the exact solutions of optical perturbed fractional Schrödinger equation
 Özkan E. M., Yıldırım Ö., Özkan A.
 PHYSICA SCRIPTA, vol.98, no.11, pp.1-10, 2023 (SCI-Expanded)

## VIII. On Exact Solutions of Some Space-Time Fractional Differential Equations with M-truncated Derivative Özkan A., Özkan E. M., Yildirim O.

FRACTAL AND FRACTIONAL, vol.2023, no.7, pp.1-14, 2023 (SCI-Expanded)

IX. The Soliton Solutions for Some Nonlinear Fractional Differential Equations with Beta-Derivative ÖZKAN E. M., ÖZKAN A.

AXIOMS, vol.10, no.3, 2021 (SCI-Expanded)

## Articles Published in Other Journals

- I. A study of 1-absorbing intuitionistic fuzzy ideals of commutative semirings
   Özkan E. M., Onar S., Özkan A., Kaplan İ.
   Journal of Discrete Mathematical Sciences & Cryptography, vol.1, no.1, pp.1-17, 2025 (ESCI)
- II. On 1-Absorbing Fuzzy Ideals of Commutative Semirings
   ÖZKAN E. M., ONAR S., ÖZKAN A., Kaplan İ.
   Journal of Engineering Technology and Applied Sciences, vol.8, no.3, pp.131-141, 2023 (Peer-Reviewed Journal)
- III. CONSTRUCTION OF A PROBABILTY FUNCTION RELATED TO CODES GENERATED BY SYMMETRIC DESIGN ÖZKAN A.

International Journal of Recent Advances in Multidisciplinary Research, vol.10, no.8, pp.8705-8708, 2023 (Peer-Reviewed Journal)

IV. On exact solutions of some important nonlinear conformable time-fractional differential equations Özkan E. M., Özkan A.

SeMA Journal, vol.80, no.2, pp.303-318, 2023 (Peer-Reviewed Journal)

- V. 2-ABSORBING INTUITIONISTIC FUZZY IDEALS OF COMMUTATIVE SEMIRINGS
   Özkan E. M., Onar S., Özkan A., Ayan R.
   JOURNAL OF SCIENCE AND ARTS, vol.23, no.1, pp.187-198, 2023 (ESCI)
   VI. Exact solutions of the space time-fractional Klein-Gordon equation with cubic nonlinearities using
- some methods ÖZKAN A., ÖZKAN E. M. COMPUTATIONAL METHODS FOR DIFFERENTIAL EQUATIONS, vol.10, no.3, pp.674-685, 2022 (ESCI)
- VII. Analytical Solutions of the Nonlinear (2 + 1)-Dimensional Soliton Equation by Using Some Methods ÖZKAN A.

Journal of Engineering Technology and Applied Sciences, vol.7, no.2, pp.141-155, 2022 (Peer-Reviewed Journal)

VIII. On the Misconceptions of 10th Grade Students about Analytical Geometry Özkan A., Özkan E. M., Karapıçak S.

The Educational Review, USA, vol.2, no.8, pp.417-426, 2018 (Peer-Reviewed Journal)

IX. A Survey on the Factors Being Affected from Spectators of Basketball Players Özkan E. M., Özkan A.

The Educational Review, USA, vol.2, no.3, pp.217-221, 2018 (Peer-Reviewed Journal)

- X. A study on the visualization skills of 6th Grade Students
   ÖZKAN A., Arikan E. E., ÖZKAN E. M.
   Universal Journal of Educational Research, vol.6, no.2, pp.354-359, 2018 (Scopus)
- XI. An examination in Turkey Error analysis of Mathematics students on group theory Arıkan E. E., Özkan E. M., Özkan A.
  Educational Brocouch and Broisers analysis of Mathematics 2252 2261 2015 (Bron Broisers d Journal)

Educational Research and Reviews, vol.10, no.16, pp.2352-2361, 2015 (Peer-Reviewed Journal)

- XII. Error Correction İn Linear Codes With Computer
   Seçer A., Özkan A., Bayram M.
   Dumlupmar Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.16, pp.31-38, 2008 (Peer-Reviewed Journal)
- XIII. Classification of rational singularities of surfaces
   ÖZÇUBUKCU Z., Tosun M., ÖZKAN A.
   International journal of pure and applied mathematics, pp.85-110, 2007 (Peer-Reviewed Journal)

# XIV. On The Classification of Rational Singularities of Surfaces TOSUN M., ÖZKAN A., ZERRİN O. INTERNATIONAL JOURNAL OF PURE AND APPLIED MATHEMATICS, vol.41, no.1, pp.85-110, 2007 (Peer-Reviewed Journal)

- XV. Fuzzy Grup ve Fuzzy İdealler Üzerine
   ÖZKAN A., ÖZKAN E. M., YENİ S. E.
   Yıldız Teknik Üniversitesi Dergisi, vol.1, pp.1-8, 2003 (Peer-Reviewed Journal)
- XVI. Bazı Cebirsel Yapılar Üzerine ÖZKAN E. M., ÖZKAN A. Yıldız Teknik Üniversitesi Dergisi, vol.3, pp.57-66, 2002 (Peer-Reviewed Journal)

## XVII. A Different Approach to Coding Theory ÖZKAN A., ÖZKAN E. M. Pakistan Journal of Applied Sciences, vol.2, no.11, pp.1032-1033, 2002 (Peer-Reviewed Journal)

## Papers Published in Refereed Scientific Meetings

I. On Optical Solutions of the Time Fractional Perturbed Gerdjikov-Ivanov Equation

Özkan A., Demirkaya S.

V International Conference on Mathematics and its Applications in Science and Engineering (ICMASE 2024), Coimbra, Portugal, 16 - 18 September 2024, pp.1

- II. 2-absorbing Ideals of Commutative Semirings with Bipolar Fuzzy Logic Onar S., Özkan E. M., Özkan A. V International Conference on Mathematics and its Applications in Science and Engineering (ICMASE 2024), Coimbra, Portugal, 16 - 18 September 2024, pp.10-11 III. **Bipolar Fuzzy Soft Hyperlattices** Yeşilmen G., Özkan E. M., Onar S., Özkan A. 15th Algebraic Hyperstructures and its Applications Conference (AHA2023), İstanbul, Turkey, 28 - 30 July 2023, pp.27 IV. On Analytical Solutions Of Space-Time Fractional Variant Boussinesq Equation With Beta Derivative Özdemir N., Özkan A. 9th International IFS and Contemporary Mathematics and Engineering Conference, Mersin, Turkey, 8 - 11 July 2023, pp.163-164 V. On 1-Absorbing Bipolar Fuzzy Primary Ideals of Commutative Semirings Kaplan İ., Özkan E. M., Onar S., Özkan A. 4th International Eurasian Conference on Science, Engineering and Technology, Ankara, Turkey, 14 - 16 December 2022, pp.61 VI. On 2-Absorbing Neutrosophic Primary Ideals of Commutative Semirings Ayan R., Özkan E. M., Onar S., Özkan A. 4th International Eurasian Conference on Science, Engineering and Technology, Ankara, Turkey, 14 - 16 December 2022, pp.66 VII. On 1-Absorbing Vague Ideals of Commutative Semirings Kaplan İ., Özkan E. M., Onar S., Özkan A. 4th International Congress on Applied Sciences, Engineering and Mathematics (ICASEM), Tekirdağ, Turkey, 20 - 23 October 2022, pp.14 VIII. On 2-Absorbing Bipolar Fuzzy Primary Ideals of Commutative Semirings Ayan R., Özkan E. M., Onar S., Özkan A. 4th International Congress on Applied Sciences, Engineering and Mathematics (ICASEM), Tekirdağ, Turkey, 20 - 23 October 2022, pp.15 IX. A Study On 1-Absorbing Intuitionistic Fuzzy Ideals of Commutative Semirings Özkan E. M., Onar S., Özkan A., Kaplan İ. 9th International Congress on Fundamental and Applied Sciences (ICFAS2022), İstanbul, Turkey, 28 - 30 June 2022, pp.174 X. A Note on 2-Absorbing Vague Ideals of Commutative Semirings Özkan E. M., Onar S., Özkan A., Ayan R. 9th International Congress on Fundamental and Applied Sciences (ICFAS2022), İstanbul, Turkey, 28 - 30 June 2022, pp.173 XI. Bright soliton solutions for time fractional Korteweg-de Vries equation Özkan E. M., Özkan A. 5th International Conference on Analysis and Applied Mathematics, ICAAM 2020, Mersin, Turkey, 23 - 30 September 2020, vol.2325 XII. Misconceptions in Radical Numbers in Secondary School Mathematics Özkan A. 11th World Conference on Educational Sciences (WCES-2019), Milan, Italy, 7 - 10 February 2019, pp.205-212 XIII. Misconceptions And Error Analysis Of 10th Grade Students On Analytical Geometry ÖZKAN A., ÖZKAN E. M. 5th International Intuitionistic Fuzzy Sets and Contemporary Mathematics Conference, 5 - 09 September 2018
- XIV. Error analysis of Mathematics students on Group Theory ÖZKAN E. M., ÖZKAN A.

	9th World Conference on Learning, Teaching and Educational Leadership, 26 - 28 October 2018
XV.	On The Misconceptions of 10th Grade Students about Analytical Geometry
	ÖZKAN A., ÖZKAN E. M.
	Interntional Conference on Mathematical Advances and Applications (ICOMAA2018), 11 - 13 May 2018
XVI.	Misconceptions on Limit and Continuity
	ÖZKAN E. M., ÖZKAN A.
	10th World Conference on Educational Sciences (WCES-2018), 1 - 03 February 2018, pp.32
XVII.	Misconceptions in Analytic Geometry: the Case of Tenth GradeStudents
	ÖZKAN A., KARAPIÇAK S.
	10th World Conference on Educational Sciences WCES 2018, 1 - 03 February 2018, pp.28
XVIII.	Mistakes and misconceptions regarding to natural numbers on secondary Mathematics Education ÖZKAN A., ÖZKAN E. M.
	13th International Conference of Algebraic Hyperstructures and its Applications (AHA2017), Turkey, 24 - 27 July
	2017
XIX.	Orta Ögretim 12 Sınıf Öğrencilerinin Modüler Aritmetik Konusundaki Kavram Yanılgıları ve Hata
	Analizi
	ÖZKAN A.
	2. Kıbrıs Uluslararası Eğitim Araştırmaları Kongresi CICER15, Girne, Cyprus (Kktc), 3 - 06 December 2015
XX.	Misconceptions on the Summation Symbol Subject and Solution Proposals
	ÖZKAN A., ÖZKAN E. M.
	5th World Conference on Learning, Teaching and Educational Leadership, WCLTA 2014, Prague, Czech Republic,
	29 - 31 October 2014, vol.186, pp.670-673
XXI.	The Use of Simple-Sample Explanations for Math Education
	TEPEDELDİREN Y. T., Ozkan A.
	5th World Conference on Educational Sciences (WCES), Rome, Italy, 5 - 08 February 2013, vol.116, pp.149-151
XXII.	A survey on the factors being affected from spectators ofbasketball players in Turkey ÖZKAN E. M., ÖZKAN A.
	WORLD CONFERENCE ON LEARNING, TEACHING AND EDUCATIONAL LEADERSHIP, Barcelona, Spain, 27 October -
	29 December 2013
XXIII.	Misconception in exponential numbers in IST and IIND level primary school mathematics
	ÖZKAN E. M., ÖZKAN A.
	4th World Conference on Educational Sciences (WCES), Barcelona, Spain, 2 - 05 February 2012, vol.46, pp.65-69
XXIV.	Misconceptions and learning difficulties in radical numbers
	ÖZKAN A., ÖZKAN E. M.
	4th World Conference on Educational Sciences (WCES), Barcelona, Spain, 2 - 05 February 2012, vol.46, pp.462-
	467
XXV.	Discrete Fourier Transform Over Finite Fields And Its Applications On Algebraic Coding Theory
	International Conference on Applied Analysis and Algebra
	ÖZKAN A., SELÇUK S.
	International Conference on Applied Analysis and Algebra, İstanbul, Turkey, 29 June - 02 July 2011
XXVI.	Mutlak Değer Konusunda Yapılan Kavram Yanılgıları
	ÖZKAN A., ÖZKAN E. M.
	International Conference on New Horizons in Education INTE 2010, Magosa, Cyprus (Kktc), 23 - 25 June 2010

## **Supported Projects**

ÖZKAN A., Özdemir N., Project Supported by Higher Education Institutions, LİNEER OLMAYAN KISMİ DİFERANSİYEL DENKLEMLERİN ANALİTİK ÇÖZÜMLERİ İÇİN YÖNTEMLERİN ARAŞTIRLIMASI, 2023 - 2024 ÖZKAN A., Karapıçak S., Project Supported by Higher Education Institutions, Matematik Eğitiminde Öğrenme zorlukları Kavram Yanılgıları ve Uygulaması, 2017 - 2018

## Metrics

Publication: 55 Citation (WoS): 50 Citation (Scopus): 66 H-Index (WoS): 4 H-Index (Scopus): 5