

Assoc. Prof. Erdoğan Mehmet ÖZKAN

Personal Information

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Education Information

Doctorate, Yildiz Technical University, Graduate School of Natural and Applied Sciences, Matematik, Turkey 1992 - 1997

Postgraduate, Yildiz Technical University, Graduate School of Natural and Applied Sciences, Matematik, Turkey 1989 - 1991

Undergraduate, Yildiz Technical University, Faculty of Arts & Science, Department of Mathemeatics, Turkey 1984 - 1989

Foreign Languages

English, B1 Intermediate

Research Areas

Education, Education in Mathematics, Mathematics, Geometry, Natural Sciences

Academic Titles / Tasks

Associate Professor, Yildiz Technical University, Faculty of Arts & Science, Department of Mathemeatics, 2018 - Continues

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

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

Academic and Administrative Experience

Head of Department, Yildiz Technical University, Rectorate, Department of Physical Education, 2018 - Continues

Fakülte Yönetim Kurulu Üyesi, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2009 - Continues

Head of Department, Yildiz Technical University, Faculty Of Arts & Science, Department Of Mathemeatics, 2016 - 2020

Deputy Head of Department, Yildiz Technical University, Faculty of Arts & Science, Department of Mathemeatics, 2017 - 2018

Deputy Head of Department, Yildiz Technical University, Faculty of Arts & Science, Department of Mathemeatics, 2016 - 2017

Head of Department, Yildiz Technical University, Rectorate, Department of Physical Education, 2010 - 2016

Courses

Bulanık Mantığa Giriş, Undergraduate, 2018 - 2019

Advising Theses

- Özkan E. M. , Bazı halkalar üzerinde tanımlı alt modül kodları, Doctorate, F.TEMİZ(Student), 2018
- ÖZKAN E. M. , 7. VE 8. SINIF TÜRK VE SİNGAPUR MATEMATİK DERS KİTAPLARININ KARŞILAŞTIRMALI ANALİZİ, Postgraduate, O.Karancı(Student), 2014
- ÖZKAN E. M. , Bölünebilme ve modüler aritmetik konularının öğrenciler tarafından kavranma analizi, Postgraduate, E.Ertuğrul(Student), 2012
- ÖZKAN E. M. , Birleşik analizde stürling sayıları ve uygulamaları, Postgraduate, B.İbiş(Student), 2005

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **The Soliton Solutions for Some Nonlinear Fractional Differential Equations with Beta-Derivative**
Özkan E. M. , Özkan A.
AXIOMS, vol.10, no.3, pp.1-15, 2021 (Journal Indexed in SCI Expanded)
- II. **CARTAN CALCULUS OF Z(3)-GRADED DIFFERENTIAL CALCULUS ON THE QUANTUM PLANE**
Özkan E. M.
INTERNATIONAL JOURNAL OF GEOMETRIC METHODS IN MODERN PHYSICS, vol.9, no.5, 2012 (Journal Indexed in SCI)
- III. **Cartan Calculus on the Quantum Space R-q(3)**
Çelik S., Özkan E. M. , Yaşar E.
TURKISH JOURNAL OF MATHEMATICS, vol.33, no.1, pp.75-83, 2009 (Journal Indexed in SCI)
- IV. **A historical survey of the fundamental theorem of arithmetic**
Agargun A. G. , Ozkan E. M.
HISTORIA MATHEMATICA, vol.28, pp.207-214, 2001 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **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 (Refereed Journals of Other Institutions)
- II. **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 (Refereed Journals of Other Institutions)
- III. **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 (Refereed Journals of Other Institutions)
- IV. **An examination in Turkey Error analysis of Mathematics students on group theory**
Arikan E. E. , Özkan E. M. , Özkan A.
Educational Research and Reviews, vol.10, no.16, pp.2352-2361, 2015 (Refereed Journals of Other Institutions)
- V. **Extended Calculi on Z3 Graded Quantum Superplane**
Çelik S., Özkan E. M.
JP Journal of Geometry and Topology, vol.15, pp.127-146, 2014 (Refereed Journals of Other Institutions)
- VI. **Verifying Misconception in Implementation of L hospital Rule**
Arikan E. E. , ÖZKAN E. M. , ÜNAL H.
Journal of Educational Science, vol.3, pp.21-31, 2014 (Refereed Journals of Other Institutions)
- VII. **Fuzzy Grup ve Fuzzy İdealler Üzerine**
ÖZKAN A., ÖZKAN E. M. , YENİ S. E.
Yıldız Teknik Üniversitesi Dergisi, vol.1, pp.1-8, 2003 (Other Refereed National Journals)
- VIII. **Bazı Cebirsel Yapılar Üzerine**

ÖZKAN E. M. , ÖZKAN A.

Yıldız Teknik Üniversitesi Dergisi, vol.3, pp.57-66, 2002 (Other Refereed National Journals)

IX. A Different Approach to Coding Theory

Özkan A., Özkan E. M.

Pakistan Journal of Applied Science, vol.2, no.11, pp.1032-1033, 2002 (Refereed Journals of Other Institutions)

X. Simetrik Dizayn İle Üretilen Kodlarla İlgili Bir Fuzzy Olasılık Fonksiyonu

ÖZKAN A., ÖZKAN E. M.

Yıldız Teknik Üniversitesi Dergisi, vol.3, pp.97-104, 2000 (Other Refereed National Journals)

XI. Fuzzy Mantıkta Ya Da Operatörü ve Fuzzy Koşullu Çıkarımda Uygulanması

ÖZKAN E. M.

Yıldız Teknik Üniversitesi Dergisi, vol.2, pp.42-51, 2000 (Other Refereed National Journals)

XII. Çok Değerli Mantıkta Bağdaşmazlık ve Birlikte Değilleme Operatörlerinin İncelenmesi ve Fuzzy Mantıkta Uygulanması

ÖZKAN E. M.

Yıldız Teknik Üniversitesi Dergisi, vol.2, pp.14-22, 2000 (Other Refereed National Journals)

Books & Book Chapters

I. Diferansiyel Denklemler Cilt 2

Aksoy Y., ÖZKAN E. M.

Yıldız Teknik Üniversitesi Basım-Yayın Merkezi / İstanbul, 2017

II. Bulanık Mantığa Giriş

Aksoy Y., ÖZKAN E. M. , Karanfil S.

Y.T.U. Vakfı Yayınları, 2003

Refereed Congress / Symposium Publications in Proceedings

I. 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

II. Investigation of the reasons why volleyball players affected by the spectators

Özkan E. M.

11th World Conference on Educational Sciences(WCES-2019), Milan, Italy, 7 - 09 February 2019

III. 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

IV. 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

V. Mistakes and Misconceptions Regarding to Exponential Numbers on Primary Education

ÖZKAN E. M.

7th Cyprus International Conference on Educational Research (CYICER-2018), 7 - 09 June 2018

VI. Structure of Cyclic Codes over Z_{p^2} and Some Special Family of Them

TEMİZ F., ÖZKAN E. M.

International Conference on Mathematics and Mathematics Education (ICMME-2018), Ordu University, Ordu, 27 - 29 June 2018

VII. On The Misconceptions of 10th Grade Students about Analytical Geometry

ÖZKAN A., ÖZKAN E. M.

International Conference on Mathematical Advances and Applications (ICOMAA2018), 11 - 13 May 2018

- VIII. **Misconceptions on Limit and Continuity**
ÖZKAN E. M. , ÖZKAN A.
10th World Conference on Educational Sciences (WCES-2018), 1 - 03 February 2018, pp.32
- IX. **Periodic And Solitary Wave Solutions of Some Physical Models**
Özkan E. M. , Akar M., Çevikel A. C.
1134th meeting of the American Mathematical Society, Riverside, California, United States Of America, 4 - 05 November 2017
- X. **On Ideals of the ring $\mathbb{Z}_p + u\mathbb{Z}_p$**
TEMİZ F., ÖZKAN E. M.
International Congress on Fundamental and Applied Sciences 2017 (ICFAS2017), Saraybosna, Bosnia And Herzegovina, 21 August 2017, pp.83
- XI. **On Ideals of The Ring \mathbb{Z}_q**
TEMİZ F., ÖZKAN E. M.
International Congress on Fundamental and Applied Sciences, 21 - 25 August 2017
- XII. **Matematik Eğitiminde Görselleştirme Yaklaşımı ve Bir Uygulaması -Visualization Approach in Mathematics Education And its Application**
ÖZKAN E. M. , GÜNDEMİR M.
International Multidisciplinary Congress Of Eurasia-IMCOFE, 27 - 30 April 2017
- XIII. **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
- XIV. **On the Inhomogeneous Quantum Group of Fermions**
ÖZKAN E. M. , ÖZAVŞAR M.
ICAAMM17, 3 - 07 July 2017
- XV. **q-Fermions with $d=1$**
ÖZKAN E. M. , ÖZAVŞAR M.
ICPAS 2017, 2 - 06 February 2017
- XVI. **Misconceptions and Learning Difficulties in Absolute Value Problems**
ÖZKAN A., ÖZKAN E. M.
9th World Conference on Educational Sciences, Nice, France, 1 - 04 February 2017
- XVII. **Misconceptions and error analysis on decimal numbers**
ÖZKAN E. M.
7th World Conference on Learning, Teaching and Educational Leadership, 27 - 29 October 2016
- XVIII. **On the Split Quaternions**
ÖZKAN E. M. , ÖZAVŞAR M.
14th International Geometry Symposium, 25 - 28 May 2016
- XIX. **On the Generalization of Quaternions**
ÖZAVŞAR M., ÖZKAN E. M.
14th International Geometry Symposium, 25 - 28 May 2016
- XX. **A Study on Visualization of Mathematical Problems The Avoidance of Visual Assessments in High school Students**
Özkan E. M. , Gündemir M.
8th World Conference on Educational Sciences, Madrid, Spain, 4 - 06 February 2016
- XXI. **On Extended Calculus of \mathbb{Z}_3 Graded Differential Calculus on the Quantum Plane**
ÖZKAN E. M.
Seventh International Conference on Dynamic Systems and Applications & Fifth International Conference on Neural, Parallel, and Scientific Computations, Atlanta, United States Of America, 27 - 30 May 2015
- XXII. **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
- XXIII. **Geometrical Approaches to Algebraically Difficult Problems**
Tepedeldiren Y. T. , ÖZKAN E. M.
5th World Conference on Educational Sciences (WCES), Rome, Italy, 5 - 08 February 2013, vol.116, pp.177-179
- XXIV. **A survey on the factors being affected from spectators of basketball players in Turkey**
ÖZKAN E. M. , ÖZKAN A.
WORLD CONFERENCE ON LEARNING, TEACHING AND EDUCATIONAL LEADERSHIP, Barcelona, Spain, 27 October - 29 December 2013
- XXV. **A Study on Learning Difficulties in Group Theory**
ÖZKAN A., ÖZKAN E. M.
6th World Conference on Educational Sciences WCES 2014, Malta, 06 February 2014 - 09 February 2013
- XXVI. **Algebraic Tendencies to Multiple Representations I**
TEPEDELDİREN T., ÖZKAN E. M. , BURAN B. A.
ICAAA 2012 International Conference on Applied Analysis and algebra, 20 - 24 June 2012
- XXVII. **Türk ve Singapur Ders Kitaplarının Karşılaştırmalı Analizi (not presented)**
ÖZKAN E. M.
IV. Uluslararası Türkiye Eğitim Araştırmaları Kongresi, 01 May 2012
- XXVIII. **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
- XXIX. **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
- XXX. **On Fuzzy interior Gamma hyperideals of Gamma semihypergroups**
YENİGÜN M., DAVVAZ M., ERSOY B. A. , SARICAOĞLU Y., ÖZKAN E. M.
ICAAA 2011 International Conference on Applied Analysis and Algebra, 29 June - 02 July 2011
- XXXI. **Geometrical and algebraic approach to multiple representations**
ÖZKAN E. M. , ÜNAL H., TEPEDELDİREN T.
3rd World Conference on Educational Sciences, 3 - 07 February 2011, vol.15, pp.72-75
- XXXII. **Misconceptions in radicals in high school mathematics**
ÖZKAN E. M.
3rd World Conference on Educational Sciences (WCES), İstanbul, Turkey, 3 - 07 February 2011, vol.15, pp.120-127
- XXXIII. **Mutlak Değer Konusunda Yapılan Kavram Yanılgıları**
ÖZKAN A., ÖZKAN E. M.
International Conference on New Horizons in Education INTE 2010, Magosa, Cyprus (Kkct), 23 - 25 June 2010
- XXXIV. **The effect of private tutoring on performance in mathematics in Turkey: A comparison across occupational types**
ÜNAL H., ÖZKAN E. M. , MILTON S., PRICE K., CURVA F.
2nd World Conference on Educational Sciences (WCES-2010), İstanbul, Turkey, 4 - 08 February 2010, vol.2, pp.5512-5517
- XXXV. **Misconception In Mathematics Education: The Case Of L'Hospital Rule (not presented)**
ÖZKAN E. M. , Ünal H.
Uluslararası 5. Balkan Eğitim Ve Bilim Kongresi, Edirne, Turkey, 01 March 2009
- XXXVI. **Misconception in Calculus-I: Engineering students' misconceptions in the process of finding domain of functions**
ÖZKAN E. M. , ÜNAL H.
World Conference on Educational Sciences, Nicosia, CYPRUS, 4 - 07 February 2009, vol.1, pp.1792-1796
- XXXVII. **Divergent Thinking In Geometry**

ÖZKAN E. M. , Cemal J.

International Conference on Further Education in Balkan Countries, Konya, Turkey, 23 - 25 October 2008

XXXVIII. **Misconception in Calculus Course for Engineering Students The Case of Limit**

ÖZKAN E. M. , ÜNAL H.

International Conference on Further Education in Balkan Countries, Konya, Turkey, 23 - 25 October 2008

XXXIX. **Influence of mathematicians in history on pre service mathematics teachers beliefs about the nature of mathematics**

ÖZKAN E. M. , Ünal H.

5th European Summer University On The History And Epistemology In Mathematics Education (ESU-5), Prag, Czech Republic, 19 - 24 July 2007

Supported Projects

ÖZKAN E. M. , TEMİZ F., Project Supported by Higher Education Institutions, BAZI HALKALAR ÜZERİNDE TANIMLI ALTMODÜL KODLARI, 2017 - 2018

ÖZKAN E. M. , Project Supported by Higher Education Institutions, Türk ve Singapur 7. 8.9.10.11 ve12. Sınıf Matematik Ders Kitaplarının Karşılaştırmalı Analizi, 2010 - 2012

Activities in Scientific Journals

Universal Journal of Educational Research, Evaluation Committee Member, 2020 - Continues

Cypriot Journal of Educational Sciences, Advisory Committee Member, 2018 - Continues

Scientific Refereeing

International Journal of Science and Technology Education Research, Other Indexed Journal, November 2020

Universal Journal of Educational Research, Other Indexed Journal, September 2020

New Trends in Mathematical Sciences, Other Indexed Journal, December 2017

International Online Journal of Educational Science, Other Indexed Journal, January 2013

Edit Congress and Symposium Activities

7th Cyprus International Conference on Educational Research, Attendee, Girne, Cyprus (Kkctc), 2018

International Conference on Mathematical Advances and Applications (ICOMAA2018), Attendee, İstanbul, Turkey, 2018

13th International Conference of Algebraic Hyperstructures and its Applications (AHA2017), Attendee, İstanbul, Turkey, 2017

International Conference on Applied Analysis and Mathematical Modeling, Attendee, İstanbul, Turkey, 2017

International Multidisciplinary Congress Of Eurasia-IMCOFE, Attendee, Barcelona, Spain, 2017

3rd International Conference on Pure and Applied Sciences, Attendee, Dubai, United Arab Emirates, 2017

14th International Geometry Symposium, Attendee, Denizli, Turkey, 2016

8th World Conference on Educational Sciences, Attendee, Madrid, Spain, 2016

Seventh International Conference on Dynamic Systems and Applications & Fifth International Conference on Neural, Parallel, and Scientific Computations, Attendee, Georgia, United States Of America, 2015

5th WORLD CONFERENCE ON EDUCATIONAL SCIENCES, Attendee, Rome, Italy, 2013

ICAAA 2012 International Conference on Applied Analysis and algebra, Attendee, İstanbul, Turkey, 2012

4th WORLD CONFERENCE ON EDUCATIONAL SCIENCES, Attendee, Barcelona, Spain, 2012

ICAAA 2011 International Conference on Applied Analysis and Algebra, Attendee, İstanbul, Turkey, 2011

World Conference on Educational Sciences: New Trends and Issues in Educational Sciences, Attendee, Girne, Cyprus

(Kktc), 2009

International Conference on Further Education in Balkan Countries, Attendee, Konya, Turkey, 2008

5th European Summer University On The History And Epistemology In Mathematics Education (ESU-5), Attendee, Praha, Czech Republic, 2007

Citations

Total Citations (WOS):31

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