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Personal Information

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Address: Yıldız Teknik Üniversitesi, Davutpaşa Kampüsü, Fen Edebiyat Fakültesi, Matematik Bölümü, Esenler 34220 İSTANBUL

Education Information

Doctorate, Florida Atlantik Üniversitesi, Fen Fakültesi, Matematik, Turkey 2007 - 2013

Post Graduate, Koç Üniversitesi, Fen Fakültesi, Matematik, Turkey 2005 - 2007

Under Graduate, Bilkent Üniversitesi, Mühendislik Fakültesi, Bilgisayar Mühendisliği, Turkey 1999 - 2005

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Construction of Combinatorial Designs with Prescribed Automorphism Groups, Florida Atlantic University, The Charles E. Schmidt College Of Science, Mathematical Sciences, 2013

Post Graduate, A New Algorithm for Finding the Complete List of Minimal Defining Sets of t -Designs, Koç Üniversitesi, Graduate School Of Sciences & Engineering, Mathematics, 2007

Research Areas

Mathematics, Combinatorics, Natural Sciences

Academic Titles / Tasks

Associate Professor, Yildiz Technical University, Faculty of Arts & Science, Department of Mathematics, 2017 - Continues

Assistant Professor, Yildiz Technical University, Faculty of Arts & Science, Department of Mathematics, 2014 - 2017

Lecturer, Florida Atlantic University, The Charles E. Schmidt College Of Science, Mathematical Sciences, 2008 - 2013

Research Assistant, Florida Atlantic University, The Charles E. Schmidt College Of Science, Mathematical Sciences, 2007 - 2013

Research Assistant, Koç Üniversitesi, Fen Fakültesi, Matematik, 2005 - 2007

Professional Experience

Courses

Advanced Algebra, Post Graduate, 2019 - 2020
Mathematics 2, Under Graduate, 2019 - 2020
Introduction to Coding Theory, Under Graduate, 2019 - 2020
Character Theory of Finite Groups, Doctorate, 2018 - 2019
Introduction to Computer Programming, Under Graduate, 2019 - 2020
Abstract Mathematics, Under Graduate, 2019 - 2020
Linear Algebra and Applications to Control Engineering, Under Graduate, 2018 - 2019
Linear Algebra, Under Graduate, 2018 - 2019

Advising Theses

Kolotoğlu E., A survey on the existence of G-factorizations of λ KN, Post Graduate, E.ÇELİK(Student), 2020
Kolotoğlu E., Sabit Devirli Kodlardan Maksimum Uzaklığa Ayrışabilen Kuantum Kodların İnşası, Doctorate, M.SARI(Student), 2019
Kolotoğlu E., Mac Williams identity of complete M-spotty Rosenbloom-Tsfasman weight enumerators, Post Graduate, T.ARABACI(Student), 2017
Kolotoğlu E., On t-Spontaneous Emission Error Designs and Related Quantum Jump Codes, Post Graduate, E.Ersoy(Student), 2017
Kolotoğlu E., İkili Dengeli Tasarımlar ve Uygulamaları, Post Graduate, Z.Tekin(Student), 2016

Jury Memberships

Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, June, 2020
Doctorate, Doctorate, Koç Üniversitesi, September, 2019
Post Graduate, Post Graduate, Koç Üniversitesi, August, 2019
Doctorate, Doctorate, Yıldız Teknik Üniversitesi, July, 2019
Doctorate, Doctorate, Yıldız Teknik Üniversitesi, September, 2018
Doctorate, Doctorate, Yıldız Teknik Üniversitesi, June, 2018
Appointment Academic Staff, Appointment Academic Staff, İstanbul Üniversitesi, February, 2018
Post Graduate, Post Graduate, İstanbul Üniversitesi, November, 2017
Doctorate, Doctorate, Yıldız Teknik Üniversitesi, November, 2017
Doctorate, Doctorate, Yıldız Teknik Üniversitesi, June, 2017
Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, May, 2017
Doctoral Examination, Doctoral Examination, Koç Üniversitesi, November, 2016
Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, November, 2016
Doctorate, Doctorate, Gebze Teknik Üniversitesi, February, 2016

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

- I. **A complete solution to the spectrum problem for graphs with six vertices and up to nine edges**
Kolotoğlu E.
Contributions to Discrete Mathematics, vol.15, no.3, pp.1-24, 2020 (Journal Indexed in SCI Expanded)
- II. **An application of constacyclic codes to entanglement-assisted quantum MDS codes**
Sarı M., Kolotoğlu E.
COMPUTATIONAL & APPLIED MATHEMATICS, vol.38, 2019 (Journal Indexed in SCI)
- III. **QUANTUM CODES WITH IMPROVED MINIMUM DISTANCE**

Kolotoğlu E., Sarı M.

BULLETIN OF THE KOREAN MATHEMATICAL SOCIETY, vol.56, pp.609-619, 2019 (Journal Indexed in SCI)

- IV. **Optimal Groomings with Grooming Ratios Six and Seven**
Ge G., Kolotoğlu E., Wei H.
JOURNAL OF COMBINATORIAL DESIGNS, vol.23, pp.400-415, 2015 (Journal Indexed in SCI)
- V. **A Complete Solution to Spectrum Problem for Five-Vertex Graphs with Application to Traffic Grooming in Optical Networks**
Ge G., Hu S., Kolotoglu E., Wei H.
JOURNAL OF COMBINATORIAL DESIGNS, vol.23, pp.233-273, 2015 (Journal Indexed in SCI)
- VI. **On the Possible Automorphism Groups of a Steiner Quintuple System of Order 21**
Kolotoglu E., Magliveras S. S.
JOURNAL OF COMBINATORIAL DESIGNS, vol.22, pp.495-505, 2014 (Journal Indexed in SCI)
- VII. **Decomposition of Complete Graphs into Isomorphic Complete Bipartite Graphs**
Kolotoglu E.
JOURNAL OF COMBINATORIAL DESIGNS, vol.21, pp.524-530, 2013 (Journal Indexed in SCI)
- VIII. **On large sets of projective planes of orders 3 and 4**
Kolotoglu E., Magliveras S. S.
DISCRETE MATHEMATICS, vol.313, pp.2247-2252, 2013 (Journal Indexed in SCI)
- IX. **The Existence and Construction of $(K-5 \setminus e)$ -Designs of Orders 27, 135, 162, and 216**
Kolotoglu E.
JOURNAL OF COMBINATORIAL DESIGNS, vol.21, pp.280-302, 2013 (Journal Indexed in SCI)
- X. **On Minimal Defining Sets of Full Designs and Self-Complementary Designs, and a New Algorithm for Finding Defining Sets of t -Designs**
Kolotoglu E., Yazici E. S.
GRAPHS AND COMBINATORICS, vol.26, pp.259-281, 2010 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **A Different Construction for Some Classes of Quantum MDS Codes**
Sarı M., Kolotoğlu E.
MATHEMATICS IN COMPUTER SCIENCE, vol.14, pp.35-44, 2020 (Journal Indexed in ESCI)
- II. **Related decompositions and new constructions of the Higman-Sims and Hall-Janko graphs**
Kolotoğlu E., Pace N., Magliveras S. S.
AUSTRALASIAN JOURNAL OF COMBINATORICS, vol.54, pp.217-230, 2012 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **A Survey on the Existence of G -factorizations of λKn**
Çelik E., Kolotoğlu E.
8th ISPEC International Conferences on Engineering and Natural Sciences, Ankara, Turkey, 12 - 14 June 2020, pp.155
- II. **An application of constacyclic codes to entanglement-assisted quantum codes**
Sarı M., Kolotoğlu E.
International Conference on Mathematics and Mathematics Education, Ordu, Turkey, 27 - 29 June 2018, pp.29-30
- III. **On large sets of projective planes of orders 3 and 4**
Kolotoğlu E., Magliveras S.
Antalya Algebra Days XVI, Antalya, Turkey, 9 - 13 May 2014, pp.20-21
- IV. **On the possible automorphism groups of a Steiner quintuple system of order 21**
KOLOTOĞLU E., Magliveras S.

44th Southeastern International Conference on Combinatorics, Graph Theory and Computing, Boca Raton / Florida, United States Of America, 04 March 2013, pp.1

V. **The existence and construction of K_5 -e-designs of orders 27, 135, 162 and 216**

KOLOTOĞLU E.

43rd Southeastern International Conference on Combinatorics, Graph Theory and Computing, Boca Raton / Florida, United States Of America, 05 March 2012, pp.1

VI. **Decomposing the Higman-Sims Graph into Double Petersen Graphs**

Pace N., KOLOTOĞLU E., Magliveras S.

2nd Istanbul Designs Theory, Graph Theory and Combinatorics Conference, İstanbul, Turkey, 27 June 2011, pp.52

VII. **On minimal defining sets of self-complementary designs**

Kolotoğlu E., Yazıcı E. Ş.

39th Southeastern International Conference on Combinatorics, Graph Theory and Computing, Florida, United States Of America, 03 March 2008, pp.1

VIII. **A new Algorithm for Finding the Full Set of Minimal Defining Sets of Full Designs**

Yazıcı E. Ş. , Kolotoğlu E.

21st British Combinatorial Conference, Reading, United Kingdom, 08 July 2007, pp.68

IX. **A new algorithm for finding the complete list of minimal defining sets of t-designs**

Kolotoğlu E., Yazıcı Yuret E. Ş.

Design Theory of Alex Rosa, Bratislava, Slovakia, 2 - 06 July 2007, pp.1

Supported Projects

Demirkale F., Ölmez O., KOLOTOĞLU E., TUBITAK Project, Kombinatoryel Tasarım Problemleri, 2019 - 2022

Memberships / Tasks in Scientific Organizations

Kamu Kurumu, Consultant, 2016 - Continues

American Mathematical Society, Member, 2007 - 2013

Scientific Refereeing

Mathematical Advances in Pure and Applied Sciences, Other journals, June 2018

Sakarya Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, February 2017

Turkish Journal of Mathematics, SCI Journal, March 2016

Journal of Algebra Combinatorics Discrete Structures and Applications, Other Indexed Journal, November 2015

Journal of Algebra Combinatorics Discrete Structures and Applications, Other Indexed Journal, May 2015

Scientific Consultations

Kamu Kurumu, Scientific Consultancy, Yıldız Teknik Üniversitesi, Fen Edebiyat Fakültesi, Matematik, Turkey, 2015 - Continues

Edit Congress and Symposium Activities

International Congress on Fundamental and Applied Sciences, Attendee, İstanbul, Turkey, 2016

3rd Istanbul Design Theory, Graph Theory and Combinatorics Workshop, Session Moderator, İstanbul, Turkey, 2016

3rd Istanbul Design Theory, Graph Theory and Combinatorics Workshop, Attendee, İstanbul, Turkey, 2016

Antalya Algebra Days XVI, Attendee, Antalya, Turkey, 2014

44th Southeastern International Conference on Combinatorics, Graph Theory and Computing, Attendee, Florida, United States Of America, 2013

43rd Southeastern International Conference on Combinatorics, Graph Theory and Computing, Attendee, Florida, United States Of America, 2012

42nd Southeastern International Conference on Combinatorics, Graph Theory and Computing, Attendee, Florida, United States Of America, 2011

41st Southeastern International Conference on Combinatorics, Graph Theory and Computing, Attendee, Florida, United States Of America, 2010

40th Southeastern International Conference on Combinatorics, Graph Theory and Computing, Attendee, Florida, United States Of America, 2009

1st İstanbul Design Theory and Combinatorics Conference, Attendee, İstanbul, Turkey, 2008

39th Southeastern International Conference on Combinatorics, Graph Theory and Computing, Attendee, Florida, United States Of America, 2008

The Chat Yin Ho Memorial Conference on Combinatorics and Groups, Attendee, Florida, United States Of America, 2008

Design Theory of Alex Rosa, Attendee, Bratislava, Slovakia, 2007

Antalya Algebra Days VIII, Attendee, Antalya, Turkey, 2006

Citations

Total Citations (WOS):23

h-index (WOS):4

Scholarships

Arthur Cayley Graduate Scholarship, Official Institutions of Foreign Countries, 2012 - Continues

Isaac Shur Graduate Scholarship, Official Institutions of Foreign Countries, 2011 - Continues

Full Scholarship, University, 2007 - Continues

Tam burs, University, 2005 - Continues

Tam burs, University, 1999 - Continues