Assoc. Prof. Ergün Yaraneri

Personal Information

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International Researcher IDs
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Education Information

Doctorate, Ihsan Dogramaci Bilkent University, Faculty Of Science, Department Of Mathematics, Turkey 2003 - 2008
Postgraduate, Ihsan Dogramaci Bilkent University, Faculty Of Science, Department Of Mathematics, Turkey 2001 - 2003
Undergraduate, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Mathematics, Turkey 1997 - 2001

Foreign Languages

English

Dissertations

Doctorate, Inductions, restrictions, evaluations and subfunctors of mackey functors, İhsan Doğramacı Bilkent Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2008
Postgraduate, On Monomial burnside rings, İhsan Doğramacı Bilkent Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2003

Research Areas

Error Corrector Codes, Cryptography, Associative Rings and Algebras, Group Theory and Generalizations, K-Theory, Number Theory, Classification Theory and Homological Algebra

Academic Titles / Tasks

Associate Professor, Istanbul Technical University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2013 - Continues

Courses

Algebra I, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013
Number Theory, Undergraduate, 2018 - 2019
Algebra II, Doctorate, 2017 - 2018, 2016 - 2017
Algebra I, Postgraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017
Linear Algebra I, Undergraduate, 2015 - 2016, 2014 - 2015
Abstract Mathematics, Undergraduate, 2016 - 2017, 2010 - 2011
Mathematics II, Undergraduate, 2013 - 2014, 2012 - 2013
Calculus II, Undergraduate, 2013 - 2014, 2010 - 2011
Calculus I, Undergraduate, 2014 - 2015
Mathematics IV, Undergraduate, 2013 - 2014
Lie Groups and Lie Algebras, Doctorate, 2013 - 2014
Calculus II, Undergraduate, 2012 - 2013
Mathematics II, Undergraduate, 2012 - 2013, 2011 - 2012, 2010 - 2011
Calculus I, Undergraduate, 2013 - 2014
Mathematics I, Undergraduate, 2012 - 2013, 2010 - 2011, 2009 - 2010
Mathematics I, Undergraduate, 2011 - 2012, 2010 - 2011
Linear Algebra, Undergraduate, 2011 - 2012
Calculus I, Undergraduate, 2009 - 2010

Advising Theses

Yaraneri E., Fqx(Fq+vFq) halkası üzerinde lineer kodlar, Doctorate, M.TEKKOYUN(Student), 2024
Yaraneri E., Construction of reversible complement DNA codes over a family of chain rings, Postgraduate, T.SEZER(Student), 2023
Yaraneri E., Cisim genişlemeleri ve origami çizimleri, Postgraduate, B.ŞANSAN(Student), 2019
Yaraneri E., Intersection graphs of finite groups, Doctorate, S.KAYACAN(Student), 2016
Yaraneri E., Domination number of a finite group, Postgraduate, N.ÇABUKOĞLU(Student), 2013

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Linear codes over Fq× (Fq+ vFq)**
   Tekkoyun M., Yaraneri E.
   Journal of Applied Mathematics and Computing, vol.69, no.4, pp.3553-3578, 2023 (SCI-Expanded)

II. **Error Performance Analysis of Random Network Coded Cooperation Systems**
   Basaran S., GOKCELI S., Kurt G. K., Özdemir E., Yaraneri E.
   IEEE TRANSACTIONS ON WIRELESS COMMUNICATIONS, vol.16, no.8, pp.5325-5337, 2017 (SCI-Expanded)

III. **Modules with Finitely Many Submodules**
   Akbari S., GHEZELAHMAD S. K., Yaraneri E.
   ALGEBRA COLLOQUIUM, vol.23, no.3, pp.463-468, 2016 (SCI-Expanded)

IV. **Abelian groups with isomorphic intersection graphs**
   Kayacan S., Yaraneri E.
   ACTA MATHEMATICA HUNGARICA, vol.146, no.1, pp.107-127, 2015 (SCI-Expanded)

V. **FINITE GROUPS WHOSE INTERSECTION GRAPHS ARE PLANAR**
   Kayacan S., Yaraneri E.
   JOURNAL OF THE KOREAN MATHEMATICAL SOCIETY, vol.52, no.1, pp.81-96, 2015 (SCI-Expanded)

VI. **INTERSECTION GRAPH OF A MODULE**
   Yaraneri E.
   JOURNAL OF ALGEBRA AND ITS APPLICATIONS, vol.12, no.5, 2013 (SCI-Expanded)

VII. **Composition factors of functors**

Yaraneri E.

JOURNAL OF ALGEBRA, vol.335, no.1, pp.113-162, 2011 (SCI-Expanded)

VIII. **Socles and radicals of Mackey functors**

Yaraneri E.

JOURNAL OF ALGEBRA, vol.321, no.10, pp.2970-3025, 2009 (SCI-Expanded)

IX. **Kernels, inflations, evaluations, and imprimitivity of Mackey functors**

Yaraneri E.

JOURNAL OF ALGEBRA, vol.319, no.5, pp.1993-2029, 2008 (SCI-Expanded)

X. **A filtration of the modular representation functor**

Yaraneri E.

JOURNAL OF ALGEBRA, vol.318, no.1, pp.140-179, 2007 (SCI-Expanded)

XI. **A Swan length theorem and a Fong dimension theorem for Mackey algebras**

Yaraneri E.

JOURNAL OF ALGEBRA, vol.311, no.1, pp.365-379, 2007 (SCI-Expanded)

XII. **Clifford theory for Mackey algebras**

Yaraneri E.

JOURNAL OF ALGEBRA, vol.303, no.1, pp.244-274, 2006 (SCI-Expanded)

Articles Published in Other Journals

I. **İkili Kuadratik Formlar İle Çarpanlara Ayırma (Factorization with Binary Quadratic Forms)**

Nari K., ÖZDEMİR E., YARANERİ E.

Journal of Engineering Technology and Applied Sciences, vol.3, no.3, pp.165-170, 2018 (Peer-Reviewed Journal)

Supported Projects

Yaraneri E., Project Supported by Higher Education Institutions, Fq x Fq + vFq Halkası Üzerinde Hata Düzelten Kodlar, 2023 - Continues

Scientific Refereeing

FILOMAT, SCI Journal, July 2017

Journal of Algebra and Related Topics, Other Indexed Journal, June 2017

JOURNAL OF ALGEBRA AND ITS APPLICATIONS, SCI Journal, May 2017

Metrics

Publication: 19

Citation (WoS): 46

Citation (Scopus): 49

H-Index (WoS): 4

H-Index (Scopus): 4

Congress and Symposium Activities

XXV. Ulusal Matematik Sempozyumu, Invited Speaker, Niğde, Turkey, 2012