Prof. ERCAN ALTINIŞIK

Personal Information



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International Researcher IDs
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Publons / Web Of Science ResearcherID: AHA-2706-2022
ScopusID: 8870022800
Yoksis Researcher ID: 108782

Education Information

Doctorate, Selcuk University, Institute Of Science, Matematik (Dr), Turkey 1998 - 2001
Postgraduate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Matematik Eğitimi (Yl), Turkey 1994 - 1998
Undergraduate, Dokuz Eylul University, Buca Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, Turkey 1990 - 1994

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Hemen-hemen Hilbert-Smith matrislerinin karakterizasyonu, Selcuk University, Fen Bilimleri Enstitüsü, Matematik (Dr), 2001
Postgraduate, Complex curves in R4, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Matematik Eğitimi (Yl), 1997

Research Areas

Linear and Multilinear Algebra: Matrix Theory, Number Theory

Academic Titles / Tasks

Professor, Gazi University, Fen Fakültesi, Matematik, 2017 - Continues
Associate Professor, Gazi University, Fen Fakültesi, Matematik, 2010 - 2017
Assistant Professor, Gazi University, Fen Fakültesi, Matematik, 2003 - 2010
Assistant Professor, Selcuk University, Akören Ali Rıza Ercan Vocational School, Department Of Accounting And Tax Department, 2001 - 2003
Lecturer, Selcuk University, Akören Ali Rıza Ercan Vocational School, Department Of Accounting And Tax Department,

1998 - 2001
Research Assistant, Selcuk University, Institute Of Scıence, 1997 - 1998

Academic and Administrative Experience

Director of the Center, Gazi University, Araştırma ve Uygulama Merkezleri, Ölçme ve Değerlendirme Uygulama ve Araştırma Merkezi, 2021 - Continues
Gazi University, Fen Fakültesi, Matematik Bölümü, 2012 - 2014
Farabi Program Department Coordinator, Gazi University, Fen Fakültesi, Matematik, 2009 - 2012
Member of ADEK Commission, Gazi University, Fen Fakültesi, 2011 - 2011
Selcuk University, Akören Ali Rıza Ercan Meslek Yüksekokulu, 1998 - 2002

Courses

SAYILAR TEORİSİ, Undergraduate, 2016 - 2017
MATEMATİK I, Undergraduate, 2016 - 2017
UZMANLIK ALAN DERSİ, Postgraduate, 2016 - 2017

Advising Theses

ALTINIŞIK E., Sıngularıty Of Lcm Matrıces On Gcd Closed Sets, Postgraduate, T.ALTINTAŞ(Student), 2019
ALTINIŞIK E., Lattıce-Theoretıc Generalızatıon Of The Lehmer Matrıx, Postgraduate, F.YAĞCI(Student), 2017
ALTINIŞIK E., Divisibility Problem Between Of Gcd And Lcm Matrices, Postgraduate, M.BURAK(Student), 2015
ALTINIŞIK E., Proof Of Ilmonen-Haukkanen-Merıkoskı Conjecture, Postgraduate, A.KESKİN(Student), 2015
ALTINIŞIK E., Meet and join matrices, Postgraduate, M.GENÇ(Student), 2014
ALTINIŞIK E., Applıcatıons of GCD and LCM matrıces, Postgraduate, A.ÇOŞKUN(Student), 2011
ALTINIŞIK E., Möbius inversiyon formülü, genelleştirilmeleri ve uygulamaları, Postgraduate, M.YILDIZ(Student), 2010
ALTINIŞIK E., MÖBIUS INVERSION FORMULA, ITS GENERALIZATIONS AND APPLICATIONS, Postgraduate, M.YILDIZ(Student), 2010
ALTINIŞIK E., Dirichlet serileri, Postgraduate, P.POŞPOŞ(Student), 2008

Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Ankara Üniversitesi, April, 2022
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Bursa Teknik Üniversitesi, January, 2022
Associate Professor Exam, Associate Professor Exam, Gazi University, October, 2021
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Ankara Üniversitesi, August, 2021
Associate Professor Exam, Associate Professor Exam, Gazi University, May, 2021
Associate Professor Exam, Associate Professor Exam, Gazi University, May, 2021
Doctoral Examination, Doctoral Examination, Gazi Üniversitesi, December, 2020
Post Graduate, Post Graduate, Gazi Üniversitesi, December, 2020
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Ankara Üniversitesi, November, 2020
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Çankırı Karatekin Üniversitesi, October, 2020
Associate Professor Exam, Associate Professor Exam, Ankara Üniversitesi, October, 2020
Doctoral Examination, Doctoral Examination, Gazi Üniversitesi, September, 2020

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Gazi Üniversitesi, July, 2020
Doctorate, Doctorate, Gazi Üniversitesi, May, 2020
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Trakya Üniversitesi, May, 2020
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Ankara Üniversitesi, March, 2020
Associate Professor Exam, Associate Professor Exam, Gazi University, October, 2019
Associate Professor Exam, Associate Professor Exam, Gazi University, October, 2018

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Non-divisibility of LCM matrices by GCD matrices on gcd-closed sets**
ALTINIŞIK E., Yildiz M., Keskin A.
LINEAR ALGEBRA AND ITS APPLICATIONS, vol.516, pp.47-68, 2017 (SCI-Expanded)

II. **On a conjecture of Ilmonen, Haukkanen and Merikoski concerning the smallest eigenvalues of certain GCD related matrices**
ALTINIŞIK E., Keskin A., Yildiz M., Demirbuken M.
LINEAR ALGEBRA AND ITS APPLICATIONS, vol.493, pp.1-13, 2016 (SCI-Expanded)

III. **ON BOUNDS FOR THE SMALLEST AND THE LARGEST EIGENVALUES OF GCD AND LCM MATRICES**
ALTINIŞIK E., BÜYÜKKÖSE Ş.
MATHEMATICAL INEQUALITIES & APPLICATIONS, vol.19, no.1, pp.117-125, 2016 (SCI-Expanded)

IV. **A proof of a conjecture on monotonic behavior of the smallest and the largest eigenvalues of a number theoretic matrix**
ALTINIŞIK E., BÜYÜKKÖSE Ş.
LINEAR ALGEBRA AND ITS APPLICATIONS, vol.471, pp.141-149, 2015 (SCI-Expanded)

V. **On inverses of GCD matrices associated with multiplicative functions and a proof of the Hong-Loewy conjecture**
Altinisik E.
LINEAR ALGEBRA AND ITS APPLICATIONS, vol.430, no.4, pp.1313-1327, 2009 (SCI-Expanded)

VI. **ON THE MATRIX NORMS OF A GCD RELATED MATRIX**
Altinisik E.
MATHEMATICAL INEQUALITIES & APPLICATIONS, vol.11, no.4, pp.635-646, 2008 (SCI-Expanded)

VII. **On the representation of k-generalized Fibonacci and Lucas numbers**
Ocal A., TUĞLU N., Altinisik E.
APPLIED MATHEMATICS AND COMPUTATION, vol.170, no.1, pp.584-596, 2005 (SCI-Expanded)

VIII. **GCD matrices, posets, and nonintersecting paths**
Altinisik E., Sagan B., TUĞLU N.
LINEAR & MULTILINEAR ALGEBRA, vol.53, no.2, pp.75-84, 2005 (SCI-Expanded)

IX. **A note on bounds for norms of the reciprocal LCM matrix**
Altinisik E., TUĞLU N., Haukkanen P.
MATHEMATICAL INEQUALITIES & APPLICATIONS, vol.7, no.4, pp.491-496, 2004 (SCI-Expanded)

X. **On the almost Hilbert-Smith matrices**
Tasci D., Altinisik E.
FIBONACCI QUARTERLY, vol.40, no.4, pp.339-344, 2002 (SCI-Expanded)

Articles Published in Other Journals

I. **On the smallest singular value in the class of unit lower triangular matrices with entries in [-a, a]**
ALTINIŞIK E.
SPECIAL MATRICES, vol.9, no.1, pp.297-304, 2021 (ESCI)

II. **THE DISTANCE MATRIX AND THE DISTANCE ENERGY OF THE POWER GRAPHS OF C-n AND D-2n**

BÜYÜKKÖSE Ş., Varlioglu N. M., ALTINIŞIK E.
JOURNAL OF SCIENCE AND ARTS, no.4, pp.823-838, 2019 (ESCI)

III. **SOME RESULTS AND A CONJECTURE ON CERTAIN SUBCLASSES OF GRAPHS ACCORDING TO THE RELATIONS AMONG CERTAIN ENERGIES, DEGREES AND CONJUGATE DEGREES OF GRAPHS**
ALTINIŞIK E., Varlioglu N. M.
JOURNAL OF SCIENCE AND ARTS, no.4, pp.811-822, 2019 (ESCI)

IV. **A NOTE ON THE SINGULARITY OF LCM MATRICES ON GCD - CLOSED SETS WITH 9 ELEMENTS**
ALTINIŞIK E., Altintas T.
JOURNAL OF SCIENCE AND ARTS, no.3, pp.413-422, 2017 (ESCI)

V. **A Lattice-theoretic Generalization of the Lehmer Matrix**
ALTINIŞIK E., Yagci F., Yildiz M.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.29, no.3, pp.675-679, 2016 (ESCI)

VI. **Determinants and inverses of circulant matrices with complex Fibonacci numbers**
ALTINIŞIK E., Yalcin N. F., BÜYÜKKÖSE Ş.
SPECIAL MATRICES, vol.3, no.1, pp.82-90, 2015 (ESCI)

VII. **Improved Bounds for the Extremal Non-Trivial Laplacian Eigenvalues**
BÜYÜKKÖSE Ş., ALTINIŞIK E., Yalcin F.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.28, no.1, pp.65-68, 2015 (ESCI)

VIII. **Determinants of Circulant Matrices with Some Certain Sequences**
ALTINIŞIK E., BÜYÜKKÖSE Ş.
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.28, no.1, pp.59-63, 2015 (ESCI)

IX. **Determinant and Inverse of Meet and Join Matrices**
ALTINIŞIK E., TUĞLU N., Penti H.
International Journal of Mathematics and Mathematical Sciences, vol.2007, pp.1-11, 2007 (Scopus)

X. **Inverses of S f and S f on gcd closed sets and lcm closed sets**
ÖÇAL A. A., ALTINIŞIK E., TUĞLU N.
International Journal of Analyzing Methods of Components and Combinatorial Biology in Mathematics, vol.1, no.1, pp.45-57, 2007 (Peer-Reviewed Journal)

XI. **Gcd matrisinin karakteristik polinomu üzerine**
Altınışık E.
Anadolu University Journal of Science and Technology, vol.3, no.3, pp.401-404, 2002 (Peer-Reviewed Journal)

XII. **On a generalization of the reciprocal LCM matrix**
ALTINIŞIK E., TAŞCI D.
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.51, no.2, pp.37-46, 2002 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **Some Conjectures on the Smallest Eigenvalues of Certain Positive Definite Matrices**
ALTINIŞIK E.
International Conference on Mathematics and Mathematics Education, 12 - 14 May 2016

II. **The Bourque Ligh Conjecture of LCM matrices**
YILDIZ M., ALTINIŞIK E.
International Conference on Mathematics and Mathematics Education, 12 - 14 May 2016

III. **On a Conjecture on the Smallest Eigenvalues of Some Special Positive Definite Matrices**
ALTINIŞIK E.
AMAT 20153rd International Conference on Applied Mathematics and Approximation Theory (AMAT2015), Ankara, Turkey, 28 - 31 May 2015

IV. **A Proof of a Conjecture on Monotonic Behavior of the Largest Eigenvalue of a Number-theoretic Matrix**

ALTINIŞIK E., BÜYÜKKÖSE Ş.
International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, Greece, 22 - 28 September 2014, vol.1648

Activities in Scientific Journals

Asian Journal of Mathematics and Applications, Committee Member, 2020 - Continues
Advances in Linear Algebra & Matrix Theory, Committee Member, 2015 - Continues

Memberships / Tasks in Scientific Organizations

Türk Matematik Derneği, Member, 2001 - Continues, Turkey

Scientific Refereeing

TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, tübitak, Turkey, December 2020
TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, Tübitak, Turkey, December 2020
TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, tübitak, Turkey, December 2020
TUBITAK Project, 2219 - Yurt Dışı Doktora Sonrası Araştırma Burs Programı, tübitak, Turkey, December 2020
Project Supported by Higher Education Institutions, BAP Research Project, Amasya University, Turkey, July 2020
Adances in Linear Algebra and Matrix theory , Other journals, April 2020
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY TRANSACTION A-SCIENCE, Journal Indexed in SCI-E, April 2020
TURKISH JOURNAL OF MATHEMATICS, Journal Indexed in SCI-E, March 2020
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY TRANSACTION A-SCIENCE, Journal Indexed in SCI-E, March 2020
TURKISH JOURNAL OF MATHEMATICS, Journal Indexed in SCI-E, February 2020
Gazi University Journal of Science, Journal Indexed in ESCI, February 2020
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY TRANSACTION A-SCIENCE, Journal Indexed in SCI-E, January 2020

Metrics

Publication: 38
Citation (WoS): 100
Citation (Scopus): 97
H-Index (WoS): 6
H-Index (Scopus): 6