Assoc. Prof. Şükrü YALÇINKAYA

Personal Information

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International Researcher IDs
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Publons / Web Of Science ResearcherID: B-3609-2018
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Education Information

Post Doctorate, University Of Western Australia, Australia 2011 - 2011
Post Doctorate, University Of Western Australia, Australia 2008 - 2010
Doctorate, Middle East Technical University, Fen Fakültesi, Matematik, Turkey 2001 - 2007
Postgraduate, Middle East Technical University, Fen Fakültesi, Matematik, Turkey 1999 - 2001
Associate Degree, Middle East Technical University, Fen Fakültesi, Matematik, Turkey 1994 - 1999

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Black box groups and related group theoretic constructions, Middle East Technical University, Fen Fakültesi, Matematik, 2007
Postgraduate, Probabilistic recognition of orthogonal and symplectic groups, Middle East Technical University, Fen Fakültesi, Matematik, 2001

Research Areas

Mathematics, Group Theory and Generalizations, Natural Sciences

Academic Titles / Tasks

Associate Professor, Istanbul University, Faculty of Science, Department of Mathematics, 2017 - Continues
Assistant Professor, Istanbul University, Faculty of Science, Department of Mathematics, 2014 - 2017
Lecturer, Istanbul Bilgi University, Fen Fakültesi, Matematik, 2012 - 2013

Courses

ANALYSİS 2, Undergraduate, 2015 - 2016

ANALYSIS 2, Undergraduate, 2015 - 2016
GRUP TEORİSİNDEN SEÇME KONULAR, Undergraduate, 2014 - 2015
ANALYSIS 1, Undergraduate, 2015 - 2016
ANALYSIS 1, Undergraduate, 2015 - 2016
LIE CEBİRLERİ VE TEMSİLLERİ, Postgraduate, 2014 - 2015
DİSKRET MATEMATİK, Undergraduate, 2015 - 2016
DİSKRET MATEMATİK, Undergraduate, 2015 - 2016
GRUP TEORİSİNDEN SEÇME KONULAR, Undergraduate, 2014 - 2015
MATEMATİK, Undergraduate, 2014 - 2015
MATHEMATICS, Undergraduate, 2014 - 2015
MATEMATİK, Undergraduate, 2014 - 2015
MATEMATİK, Undergraduate, 2014 - 2015
Differential equations and linear algebra, Undergraduate, 2012 - 2013
Calculus, Undergraduate, 2012 - 2013
Algebra III, Postgraduate, 2012 - 2013

Advising Theses

Yalçınkaya Ş., Demirkale F., On designs derived from codes, Postgraduate, K.Duran(Student), 2017

Jury Memberships

Post Graduate, Yüksek Lisans Tez Savunma Jüri Üyesi, İstanbul Üniversitesi, June, 2014

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Adjoint representations of black box groups PSL2(F-q)**
Borovik A., Yalcinkaya Ş.
JOURNAL OF ALGEBRA, vol.506, pp.540-591, 2018 (SCI-Expanded)

II. **Generation of finite classical groups by pairs of elements with large fixed point spaces**
Praeger C. E., Seress A., Yalcinkaya S.
JOURNAL OF ALGEBRA, vol.421, pp.56-101, 2015 (SCI-Expanded)

III. **ON SEMIREGULAR PERMUTATIONS OF A FINITE SET**
Niemeyer A., Popiel T., Praeger C., YALÇINKAYA Ş.
MATHEMATICS OF COMPUTATION, vol.81, no.277, pp.605-622, 2012 (SCI-Expanded)

IV. **Black box groups**
Yalcinkaya S.
TURKISH JOURNAL OF MATHEMATICS, vol.31, pp.171-210, 2007 (SCI-Expanded)

Books & Book Chapters

I. **Homomorphic Encryption and Some Black Box Attacks**
Yalçınkaya Ş., Borovik A.
in: Mathematical Software - ICMS 2020, Anna Maria Bigatti,Jacques Carette,James H. Davenport,Michael Joswig,Timo de Wolff, Editor, Springer, London/Berlin , Zug, pp.115-124, 2020

II. **New approaches in black box group theory**
YALÇINKAYA Ş., Borovik A.
in: Mathematical software - ICMS 2014, Hong H., Yap C., Editor, Springer-Verlag , Heidelberg, pp.53-58, 2014

Other Publications

I. **NATURAL REPRESENTATIONS OF BLACK BOX GROUPS ENCRYPTING SL2(Fq)**
Yalçınkaya Ş., Borovik A.
Other, pp.1-15, 2020

II. **Black box, white arrow**
Yalçınkaya Ş., Borovik A.
Other, pp.1-19, 2014

III. **Construction of some subgroups in black box groups PGL(2,q) and PSL(2,q)**
Yalçınkaya Ş., Borovik A.
Other, pp.1-10, 2014

IV. **Fifty Shades of Black**
Borovik A., Yalçınkaya Ş.
Other, pp.1-23, 2013

V. **Steinberg presentations of black box classical groups in small characteristics**
Borovik A., Yalçınkaya Ş.
Other, pp.1-32, 2013

VI. **Construction of Curtis-Phan-Tits system of black box classical groups**
Borovik A., Yalçınkaya Ş.
Other, pp.1-35, 2010

VII. **Construction of long root SL(2,q)-subgroups in black box groups**
Yalçınkaya Ş.
Other, pp.1-37, 2010

Metrics

Publication: 13
Citation (WoS): 14
Citation (Scopus): 11
H-Index (WoS): 3
H-Index (Scopus): 2

Congress and Symposium Activities

Groups St Andrews 2009 in Bath, Attendee, Bath, United Kingdom, 2009
Matrix Group Recognition, Attendee, Edinburgh, United Kingdom, 2009
Model Theory of Fields, Attendee, Marseille, France, 2007
Groups St Andrews 2005, Attendee, St Andrews, United Kingdom, 2005
An Introduction to Recent Applications of Model Theory, Attendee, Cambridge, United Kingdom, 2005