

Prof. GONCA AYIK

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Cukurova University, Fen Bilimleri, Matematik, Turkey 1997 - 2003

Postgraduate, Cukurova University, Fen Bilimleri, Matematik, Turkey 1995 - 1997

Undergraduate, Cukurova University, Fen Edebiyat, Matematik, Turkey 1990 - 1995

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Yarıgrupların Takdimleri, Otamatiklik ve Adian Grafikleri, Cukurova University, Fen Bilimleri Enstitüsü, Matematik, 2003

Postgraduate, Yarıgrup Takdimleri, Cukurova University, Fen Bilimleri Enstitüsü, Matematik, 1997

Research Areas

Group Theory and Generalizations, Natural Sciences

Academic Titles / Tasks

Professor, Cukurova University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2013 - Continues

Associate Professor, Cukurova University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2007 - 2013

Assistant Professor, Cukurova University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2005 - 2007

Lecturer PhD, Cukurova University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2004 - 2005

Research Assistant, Cukurova University, Fen Edebiyat Fakültesi, Matematik Bölümü, 1995 - 2004

Academic and Administrative Experience

Head of Department, Cukurova University, Fen-Edebiyat Fakültesi, Matematik, 2016 - 2019

Cukurova University, Matematik, 2013 - 2016

Cukurova University, Matematik, 2010 - 2013
Cukurova University, Fen Bilimleri, 2012 - 2012

Courses

Yüksek Matematik II, Undergraduate, 2019 - 2020
Matematik Tarihi, Undergraduate, 2019 - 2020
Kodlama Teorisi, Undergraduate, 2019 - 2020
Yarıgrup Yapıları ve Takdimleri, Postgraduate, 2018 - 2019
Cebir I, Postgraduate, 2019 - 2020
Yüksek Matematik I, Undergraduate, 2019 - 2020
Cebir III, Undergraduate, 2019 - 2020

Advising Theses

AYIK G., Sn Normal Yarıgruplar, Postgraduate, A.Altınel(Student), 2014
AYIK G., İdempotent Dönüşümler ve İdempotent Dönüşümler Tarafından Doğurulan Yarıgruplar,, Postgraduate, H.Güçkır(Student), 2012
AYIK G., Sonlu Yarıgrup Sınıflarının Rank Özellikleri, Doctorate, O.Kelekçi(Student), 2011
AYIK G., Nilpotent Dönüşümler Tarafından Doğurulan Yarıgruplar,, Postgraduate, E.Önder(Student), 2011
AYIK G., Grup tanımlayan yarıgrup takdimleri ve Adian Grafikleri, Doctorate, B.Özer(Student), 2010
AYIK G., Sonlu Dönüşümler Yarıgrupunda Çarpanlara Ayırma,, Postgraduate, D.Yaşar(Student), 2009
AYIK G., Kümeler ve Grup Üzerinde Grup Aksiyonları, Postgraduate, H.Öztürk(Student), 2006

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Combinatorial results for semigroups of orientation-preserving and order-decreasing transformations**
DAĞDEVİREN A., AYIK G., AYIK H.
Semigroup Forum, 2024 (SCI-Expanded)
- II. **Combinatorial results for semigroups of orientation-preserving transformations**
DAĞDEVİREN A., AYIK G.
Turkish Journal of Mathematics, vol.48, no.2, pp.106-117, 2024 (SCI-Expanded)
- III. **On the Rank of Generalized Transformation Semigroups**
AYIK G., Abusarris H. D. M.
BULLETIN OF THE MALAYSIAN MATHEMATICAL SCIENCES SOCIETY, vol.45, no.4, pp.1777-1787, 2022 (SCI-Expanded)
- IV. **Relative ranks of some partial transformation semigroups**
Yigit E., AYIK G., AYIK H.
TURKISH JOURNAL OF MATHEMATICS, vol.43, no.5, pp.2218-2225, 2019 (SCI-Expanded)
- V. **Minimal relative generating sets of some partial transformation semigroups**
YİĞİT E., AYIK G., AYIK H.
Communications in Algebra, vol.45, no.3, pp.1239-1245, 2017 (SCI-Expanded)
- VI. **Minimal relative generating sets of some partial transformation semigroups**
YİĞİT E., AYIK G., AYIK H.
COMMUNICATIONS IN ALGEBRA, vol.45, no.3, pp.1239-1245, 2016 (SCI-Expanded)
- VII. **On semigroup presentations that define a group**
AYIK G., Ozer B.

- SEMIGROUP FORUM, vol.90, no.1, pp.149-154, 2015 (SCI-Expanded)
- VIII. **SEMIGROUP PRESENTATIONS FOR CONGRUENCES ON GROUPS**
AYIK G., Caliskan B.
BULLETIN OF THE KOREAN MATHEMATICAL SOCIETY, vol.50, no.2, pp.445-449, 2013 (SCI-Expanded)
- IX. **Generating sets of finite singular transformation semigroups**
AYIK G., AYIK H., BUGAY L., KELEKCI O.
SEMIGROUP FORUM, vol.86, no.1, pp.59-66, 2013 (SCI-Expanded)
- X. **Combinatorial results for order-preserving and order-decreasing transformations**
AYIK G., Ayik H., KOC M.
TURKISH JOURNAL OF MATHEMATICS, vol.35, no.4, pp.617-625, 2011 (SCI-Expanded)
- XI. **Rank properties of the semigroup of singular transformations on a finite set**
AYIK G., AYIK H., Uenlue Y., HOWIE J. M.
COMMUNICATIONS IN ALGEBRA, vol.36, no.7, pp.2581-2587, 2008 (SCI-Expanded)
- XII. **On semigroup presentations and adian graphs**
AYIK G., AYIK H., UNLU Y.
DISCRETE MATHEMATICS, vol.308, no.11, pp.2288-2291, 2008 (SCI-Expanded)
- XIII. **On factorisations and generators in transformation semigroups**
AYIK G., Ayik H., HOWIE J.
SEMIGROUP FORUM, vol.70, no.2, pp.225-237, 2005 (SCI-Expanded)
- XIV. **The structure of elements in finite full transformation semigroups**
AYIK G., Ayik H., UNLU Y., HOWIE J.
BULLETIN OF THE AUSTRALIAN MATHEMATICAL SOCIETY, vol.71, no.1, pp.69-74, 2005 (SCI-Expanded)
- XV. **Presentations for S and S/p from a given presentation for p**
AYIK G., Ayik H., UNLU Y.
SEMIGROUP FORUM, vol.70, no.1, pp.146-149, 2005 (SCI-Expanded)

Articles Published in Other Journals

- I. **Presentations and word problems for strong semilattices of semigroups**
AYIK G., AYIK H., UNLU Y.
Algebra and Discrete Mathematics, vol.4, pp.28-35, 2005 (ESCI)

Books & Book Chapters

- I. **Matematik Ders Kitabı-Ortaöğretim 10. Sınıf**
Ayık G. (Editor)
MEB-Devlet Kitapları, Ankara, 2018
- II. **Matematik Ders Kitabı-Ortaöğretim 9. Sınıf**
Ayık G. (Editor)
MEB-Devlet Kitapları, Ankara, 2017

Refereed Congress / Symposium Publications in Proceedings

- I. **Sonlu Tekil Dönüşüm Yarıgruplarının Doğuray Kümeleri**
BUGAY L., AYIK G., AYIK H., KELEKCI O.
XXV. Ulusal Matematik Sempozyumu, Niğde, Turkey, 5 - 07 September 2012, pp.12
- II. **(m,r) -rank of finite full transformation semigroups**
AYIK G., AYIK H., HOWIE J. M., UNLU Y.

- Antalya Algebra Days VIII, Antalya, Turkey, 17 - 21 May 2006, pp.52
- III. **On factorisations and generators in transformation semigroups**
AYIK G., AYIK H., HOWIE J. M.
Antalya Algebra Days VII, Antalya, Turkey, 18 - 22 August 2005, pp.1
- IV. **The Structure of Elements in Finite Full Transformation Semigroups**
AYIK H., AYIK G., HOWIE J. M., UNLU Y.
Antalya Algebra Days VII, Antalya, Turkey, 18 - 22 May 2005, pp.32
- V. **On factorisations and generators in transformation semigroups**
AYIK G., AYIK H., HOWIE J. M.
Antalya Algebra Days VII, Antalya, Turkey, 18 - 22 May 2005, pp.45
- VI. **Bazı Yarigrup Ailelerinin Sonlu Takdimedilebilirliği**
AYIK G., AYIK H., UNLU Y.
XVII. Ulusal Matematik Sempozyumu, Bolu, Turkey, 23 - 26 August 2004, pp.15
- VII. **On a class of semigroups with special symmetric presentations,**
AYIK G.
XV Ulusal Matematik Sempozyumu Mersin Üniversitesi,, Mersin, Turkey, 4 - 07 September 2002, pp.96-100

Supported Projects

Ayık G., Ayık H., Bugay L., TÜBİTAK Project, Dönüşümler Yarigrubu Ve Kısmi Dönüşümler Yarigrubunun Belirli Alt Yarigruplarının Araştırılması, 2024 - 2027

Memberships / Tasks in Scientific Organizations

Türk Kadın Matematikçiler Derneği, Member, 2014 - Continues, Turkey
American Mathematical Society, Member, 2008 - Continues, United States Of America
Türk Matematik Derneği, Member, 1995 - Continues, Turkey

Metrics

Publication: 25
Citation (WoS): 45
Citation (Scopus): 46
H-Index (WoS): 4
H-Index (Scopus): 5

Congress and Symposium Activities

Kadın Matematikçiler Derneği Çalıştayı, Invited Speaker, Kocaeli, Turkey, 2014
Antalya Algebra Days VIII, Attendee, Antalya, Turkey, 2006
Antalya Algebra Days VII, Attendee, Antalya, Turkey, 2005

Scholarships

YÖK-Araştırma Bursu, University, 2012 - 2013
TÜBİTAK- NATO A2, NATO, 2003 - 2004

Non Academic Experience

MİLLİ EĞİTİM BAKANLIĞI