

Asst. Prof. HASAN ARSLAN

Personal Information

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International Researcher IDs

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ORCID: 0000-0002-0430-8737

Publons / Web Of Science ResearcherID: AAL-7154-2021

ScopusID: 57203413512

Yoksis Researcher ID: 117068

Education Information

Doctorate, Erciyes University, Fen Bilimleri Enstitüsü, Matematik, Turkey 2009 - 2015

Masters (Non-Thesis), Erciyes University, Eğitim Bilimleri Enstitüsü, Matematik Öğretmenliği, Turkey 2013 - 2014

Doctorate, National University of Ireland, Galway , School of Mathematics, Statistics and Applied Mathematics, Mathematics, Ireland 2011 - 2012

Postgraduate, Erciyes University, Fen Bilimleri Enstitüsü, Matematik, Turkey 2007 - 2009

Undergraduate, Ankara University, Fen Fakültesi, Matematik Bölümü, Turkey 2001 - 2005

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, B_n -Tipi Coxeter Gruplarının İndirgenmiş Cebirleri, Erciyes Üniversitesi, Fen Bilimleri Enstitüsü, Matematik, 2015

Postgraduate, Sonlu Coxeter Gruplarının İndirgenmiş Cebirleri, Erciyes University, Fen Bilimleri Enstitüsü, Matematik, 2009

Research Areas

Mathematics, Associative Rings and Algebras, Combinatorics, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Erciyes University, Fen Fakültesi, Matematik, 2020 - Continues

Research Assistant PhD, Erciyes University, Fen Fakültesi, Matematik, 2015 - 2020

Research Assistant, Erciyes University, Fen Fakültesi, Matematik, 2007 - 2015

Academic and Administrative Experience

Fakülte Yönetim Kurulu Üyesi, Erciyes University, Fen Fakültesi, --, 2021 - Continues

Erciyes University, 2021 - Continues

Vice Dean, Erciyes University, Fen Fakültesi, 2020 - Continues

Erciyes University, 2020 - Continues

Erciyes University, 2016 - 2019

Courses

AYRIK MATEMATİK, Undergraduate, 2023 - 2024

WEYL GRUPLARI II, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

MATEMATİK II, Undergraduate, 2023 - 2024

SAYILAR TEORİSİ II, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

TEZ ÇALIŞMASI I, Postgraduate, 2022 - 2023, 2021 - 2022

UEE 101 MATEMATİK I, Undergraduate, 2023 - 2024

BİTİRME TEZİ II, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

ASTMAT 105 LİNEER CEBİR, Undergraduate, 2023 - 2024

BİTİRME TEZİ I, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

MAT 561 WEYL GRUPLARI I, Postgraduate, 2023 - 2024

SOYUT MATEMATİK VE LOJİK II, Undergraduate, 2022 - 2023

SOYUT MATEMATİK, Undergraduate, 2023 - 2024

TEZ ÇALIŞMASI II, Postgraduate, 2022 - 2023, 2021 - 2022

MAT 211 SAYILAR TEORİSİ I, Undergraduate, 2023 - 2024

SAYISAL YÖNTEMLER, Undergraduate, 2022 - 2023, 2020 - 2021, 2019 - 2020

UZMANLIK ALAN DERSİ II, Postgraduate, 2022 - 2023, 2021 - 2022

MATEMATİK II, Undergraduate, 2022 - 2023, 2020 - 2021

UZMANLIK ALAN DERSİ I, Postgraduate, 2022 - 2023, 2021 - 2022

İLERİ SAYILAR TEORİSİ II, Undergraduate, 2021 - 2022, 2020 - 2021

TEZ DANIŞMANLIĞI I, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

TEZ DANIŞMANLIĞI II, Postgraduate, 2021 - 2022, 2020 - 2021

WEYL GRUPLARI I, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

MÜHENDİSLİK MATEMATİĞİ , Undergraduate, 2021 - 2022

DİFERENSİYEL DENKLEMLER, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021

ANALİTİK SAYILAR TEORİSİ II, Postgraduate, 2021 - 2022, 2020 - 2021

ANALİTİK GEOMETRİ, Undergraduate, 2021 - 2022

SOYUT MATEMATİK VE LOJİK I, Undergraduate, 2022 - 2023

MATEMATİK I, Undergraduate, 2022 - 2023, 2020 - 2021

SAYILAR TEORİSİ I, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019

ANALİZDE SEÇME KONULAR I, Undergraduate, 2021 - 2022, 2020 - 2021

ANALİTİK SAYILAR TEORİSİ I, Postgraduate, 2021 - 2022

DİFERENSİYEL DENKLEMLER, Undergraduate, 2021 - 2022, 2020 - 2021

İLERİ SAYILAR TEORİSİ I, Undergraduate, 2021 - 2022, 2020 - 2021

DİFERENSİYEL DENKLEMLER, Undergraduate, 2021 - 2022, 2020 - 2021

ANALİZDE SEÇME KONULAR II, Undergraduate, 2020 - 2021

LİNEER CEBİR VE SAYISAL YÖNTEMLER, Undergraduate, 2019 - 2020, 2018 - 2019

MATEMATİK II, Undergraduate, 2019 - 2020

Genel Matematik II, Undergraduate, 2019 - 2020, 2018 - 2019

MÜHENDİSLİK MATEMATİĞİ IV, Undergraduate, 2019 - 2020

MÜHENDİSLİK MATEMATİĞİ IV, Undergraduate, 2019 - 2020

MATEMATİK, Undergraduate, 2020 - 2021, 2018 - 2019, 2017 - 2018

Genel Matematik I, Undergraduate, 2019 - 2020, 2018 - 2019
Diferensiyel Denklemler, Undergraduate, 2018 - 2019
Diferensiyel Denklemler, Undergraduate, 2019 - 2020
Lineer Cebir, Undergraduate, 2019 - 2020, 2018 - 2019
Lineer Cebir, Undergraduate, 2019 - 2020
Mühendislik Matematiği II, Undergraduate, 2018 - 2019
Matematik III, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018
Lineer Cebir , Undergraduate, 2019 - 2020
MATEMATİK-II, Undergraduate, 2017 - 2018
DİFERENSİYEL DENKLEMLER, Undergraduate, 2018 - 2019
DİFERANSİYEL DENKLEMLER, Undergraduate, 2018 - 2019

Advising Theses

Arslan H., Genelleştirilmiş indirgenmiş cebirler, Postgraduate, E.SUNGUR(Student), Continues
Arslan H., RSA Şifreleme ve Güvenlik Analizi, Postgraduate, N.KALKIN(Student), Continues
Arslan H., FİBONACCİ TİPİ SAYI DİZİLERİ VE UYGULAMALARI, Postgraduate, Y.SENKİR(Student), Continues
Arslan H., Klasik Weyl Gruplarının İşaretili Mahonian Polinomları, Postgraduate, H.YILDIZ(Student), Continues
Arslan H., Permütasyon İstatistikleri ve Çoklu Kümeler, Postgraduate, R.ŞANLIBABA(Student), Continues
Arslan H., Genelleştirilmiş Simetrik Gruplardaki Düzensizlikler, Postgraduate, H.TAHSİN(Student), Continues

Jury Memberships

Post Graduate, Post Graduate, Erciyes Üniversitesi, August, 2023
Post Graduate, Post Graduate, Erciyes Üniversitesi, October, 2022
Post Graduate, Post Graduate, Erciyes Üniversitesi, August, 2022
Post Graduate, Post Graduate, Kırşehir Ahi Evran Üniversitesi, July, 2022
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, June, 2022
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, December, 2021
Doctoral Examination, Doctoral Examination, Erciyes Üniversitesi, November, 2021
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Erciyes Üniversitesi, February, 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **An inversion statistic on the generalized symmetric groups**
Arslan H., Altoum A., Zaarour M.
ADVANCES IN APPLIED MATHEMATICS, vol.154, pp.1-20, 2024 (SCI-Expanded)
- II. **A new COVID-19 detection method from human genome sequences using CpG island features and KNN classifier**
Arslan H., Arslan H.
ENGINEERING SCIENCE AND TECHNOLOGY-AN INTERNATIONAL JOURNAL-JESTECH, vol.24, no.4, pp.839-847, 2021 (SCI-Expanded)
- III. **Gaussian Pell and Gaussian Pell-Lucas Quaternions**
ARSLAN H.
FILOMAT, vol.35, no.5, pp.1609-1617, 2021 (SCI-Expanded)
- IV. **A new approach to a theorem of Eng**

ARSLAN H.

HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.50, no.6, pp.1679-1680, 2021 (SCI-Expanded)

V. **A NOTE ON THE UNITS OF MANTACI-REUTENAUER ALGEBRA**

ARSLAN H., CAN H.

BULLETIN OF THE KOREAN MATHEMATICAL SOCIETY, vol.55, no.4, pp.1037-1049, 2018 (SCI-Expanded)

Articles Published in Other Journals

I. **Determination of the Characteristic Class Functions of the Weyl Group of type G_2**

Arslan H.

Aksaray University Journal of Science and Engineering, vol.7, no.1, 2023 (Peer-Reviewed Journal)

II. **On Complex Gaussian Jacobsthal and Jacobsthal-Lucas Quaternions**

Arslan H.

Cumhuriyet Science Journal, vol.41, no.1, pp.1-10, 2020 (Peer-Reviewed Journal)

III. **Generalized Burnside algebra of type $B_{\{n\}}$**

Arslan H., Can H.

Communications Faculty Of Science University of Ankara Series A1 Mathematics and Statistics, vol.69, no.1, pp.252-265, 2020 (ESCI)

IV. **A Note About the Trace Functions on Mantaci--Reutenauer Algebra**

ARSLAN H.

Konuralp Journal of Mathematics, vol.6, pp.140-143, 2018 (Peer-Reviewed Journal)

Books & Book Chapters

I. **Deep Learning Methods for Diagnosis of COVID-19 using Radiology Images and Genome Sequences: Challenges and Limitations**

Arslan H., Arslan H.

in: Deep Learning in Biomedical and Health Informatics: Current Applications and Possibilities, M.A.Jabbar, Prof. (Dr.) Ajith Abraham, Dr Onur Dogan, Dr Ana Maria Madureira, Dr Sanju Tiwari, Editor, CRC, New York, New York, 2021

Refereed Congress / Symposium Publications in Proceedings

I. **On the Set Partitions of type B**

Arslan H., Zaarour M., Altoum A.

İzmir Matematik Günleri V, İzmir, Turkey, 27 - 29 September 2023

II. **A New Approach to Macmahon's Equidistribution Theorem**

Arslan H.

2nd International E-Conference on Mathematical and Statistical Sciences: A Selcuk Meeting, Konya, Turkey, 5 - 07 June 2023

III. **Some Combinatorial Results for the Hyperoctahedral Group**

Arslan H.

6th International HYBRID Conference on Mathematical Advances and Applications, İstanbul, Turkey, 10 - 13 May 2023, pp.0-1

IV. **Public-key Authentication Schemes Based on the Hidden Discrete Logarithm Problem**

Arslan H., Altoum A., Altındış H.

International E-Conference on Mathematical and Statistical Science: A Selcuk Meeting, Konya, Turkey, 20 - 22 October 2022, pp.29

- V. **On the Möbius Function for a Coxeter Group**
Arslan H.
8th International Conference on Recent Advances in Pure and Applied Mathematics , Muğla, Turkey, 24 - 27 September 2021
- VI. **On the Generalized Descent Algebra**
Arslan H.
10th INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS, Sakarya, Turkey, 25 - 27 August 2021
- VII. **The Trace Functions on Mantaci-Reutenauer Algebra**
ARSLAN H.
International Conference on Mathematics and Mathematics Education(ICMME 2017), Şanlıurfa, Turkey, 11 - 13 May 2017
- VIII. **Mantaci-Reutenauer Cebirinin Birimleri Üzerine**
ARSLAN H.
28. ULUSAL MATEMATİK SEMPOZYUMU, Turkey, 7 - 09 September 2015
- IX. **B_n-TİPİ COXETER GRUPLARININ REPREZANTASYON TEORİSİ**
ARSLAN H., CAN H.
10. ANKARA MATEMATİK GÜNLERİ, Ankara, Turkey, 11 - 12 June 2015
- X. **Sonlu Coxeter Gruplarının İndirgenmiş Cebirleri**
Arslan H.
9. Ankara Matematik Günleri, Ankara, Turkey, 12 - 13 June 2014, pp.20

Supported Projects

Boyraz H., Soybaş D., Yüksel N., Şimşek Batar A., Arslan H., Karakuş Arslan H., Sevgi S., Karakaş A., Demircioğlu H., Kırnap Dönmez S. M., et al, TUBITAK Project, Matematikle Eğlenerek Öğrenmeye Evet!, 2023 - 2023
GÜRCAN F., CAN H., ŞAHAN T., DELİCEOĞLU A., AYGÜN E., BİLGİL H., ARSLAN H., Project Supported by Higher Education Institutions, 23. Ulusal Matematik Sempozyumu, 2010 - 2010

Scientific Refereeing

Journal of Optimization and Decision Making, Other Indexed Journal, June 2023
Journal of New Results in Science, Other Indexed Journal, February 2023
Journal of advanced research in natural and applied sciences (Online), Other Indexed Journal, July 2022
Fundamental Journal of Mathematics and Applications, Other Indexed Journal, June 2022
Cumhuriyet Science Journal, Other Indexed Journal, December 2021
Aksaray University Journal of Science and Engineering, Other Indexed Journal, November 2021
Aksaray University Journal of Science and Engineering, Other Indexed Journal, January 2019
Aksaray University Journal of Science and Engineering, Other Indexed Journal, April 2018

Tasks In Event Organizations

Arslan H., 23. Ulusal Matematik Sempozyumu, Scientific Congress, Kayseri, Turkey, Ağustos 2010

Metrics

Publication: 20

Citation (WoS): 40

Citation (Scopus): 55

H-Index (WoS): 2

H-Index (Scopus): 2

Congress and Symposium Activities

International Conference on Enumerative Combinatorics and Applications, Attendee, Tel-Aviv-Yafo, Israel, 2023

VI. Ankara Matematik Günleri, Attendee, Ankara, Turkey, 2011

Karatekin Mathematics Days: Combinatorics, Algebra, Geometry and Interactions, Attendee, Çankırı, Turkey, 2011

XXIII. Ulusal Matematik Sempozyumu, Working Group, Kayseri, Turkey, 2010

Scholarships

2211 - Yurt İçi Doktora Burs Programı, TÜBİTAK, 2010 - 2015

Yurtdışı Doktora Araştırma Bursu, YOK, 2011 - 2012