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Education Information

Doctorate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Matematik-Bilgisayar Bilimleri (Dr), Turkey
2013 - 2019

Postgraduate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Matematik-Bilgisayar Bilimleri (YI) (Tezli),
Turkey 2011 - 2013

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), Turkey 2008 - 2011

Undergraduate, Ankara University, Fen Fakültesi, Matematik Bölümü, Turkey 2004 - 2008

Foreign Languages

English, B1 Intermediate

Certificates, Courses and Trainings

IT, Mustafa Akgül Özgür yazılım kış kampı 2023, Linux kullanıcıları derneği, 2023

IT, Shared memory parallelization with OpenMP , VSC – Vienna Scientific Cluster, 2021

IT, Java eğitimi, Anadolu Üniversitesi, 2015

IT, MPI paralel programlama eğitimi, İstanbul Teknik Üniversitesi, 2013

Dissertations

Doctorate, Asosyatif olmayan cebirlerin sınıflandırılması, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ,
Matematik-Bilgisayar Bilimleri (Dr), 2019

Postgraduate, Haskell ile kategori teori, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Matematik-
Bilgisayar Bilimleri (YI) (Tezli), 2013

Postgraduate, Periyodik ve yarı periyodik olan ikinci mertebeden fark operatörlerinin özdeğerleri, Ankara University,
Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), 2011

Research Areas

Computer Science, Associative Rings and Algebras, Nonassociative Rings and Algebras, Algebraic Topology

Academic titles / Tasks

Associate Professor, Eskisehir Osmangazi University, 2023 - Continues

Research Assistant PhD, Eskisehir Osmangazi University, FEN FAKÜLTESİ, MATEMATİK VE BİLGİSAYAR BİLİMLERİ BÖLÜMÜ, 2011 - 2023

Academic and Administrative Experience

Erasmus Program Department Coordinator, Eskisehir Osmangazi University, FEN FAKÜLTESİ, MATEMATİK VE BİLGİSAYAR BİLİMLERİ BÖLÜMÜ, 2024 - Continues

Courses

Fonksiyonel programlama, Undergraduate, 2020 - 2021

Temel matematik, Undergraduate, 2020 - 2021

matematik I, Undergraduate, 2020 - 2021

matematik, Undergraduate, 2019 - 2020

matematik, Undergraduate, 2019 - 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **On relations among quadratic modules**
Soylu Yılmaz E., Yılmaz K.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.45, no.18, pp.12231-12244, 2022 (SCI-Expanded)
- II. **(Co)Limit calculations in the category of 2-crossed R-modules**
Yılmaz E.
TURKISH JOURNAL OF MATHEMATICS, vol.46, no.7, pp.2902-2915, 2022 (SCI-Expanded)
- III. **Relationships between category theory and functional programming with an application**
ODABAŞ A., SOYLU YILMAZ E.
TURKISH JOURNAL OF MATHEMATICS, vol.43, no.3, pp.1566-1577, 2019 (SCI-Expanded)

Articles Published in Other Journals

- I. **The Theory of Ultra - Groups and GAP Applications**
SOYLU YILMAZ E., EGE ARSLAN U., kundakçioğlu ş.
Ikonion Journal of Mathematics, vol.4, no.2, pp.1-11, 2022 (Peer-Reviewed Journal)
- II. **4-Dimensional 2-Crossed Modules**
SOYLU YILMAZ E.
Journal of New Theory, no.40, pp.46-53, 2022 (Peer-Reviewed Journal)
- III. **Internal Cat-1 and XMod**
SOYLU YILMAZ E., EGE ARSLAN U.
Journal of new theory, vol.38, pp.79-87, 2022 (Peer-Reviewed Journal)
- IV. **ON INTERNAL CATEGORIES IN HIGHER DIMENSIONAL GROUPS**
Ege Arslan U., Soylu Yılmaz E.
Journal of universal mathematics, vol.5, no.2, pp.129-138, 2022 (Peer-Reviewed Journal)
- V. **XModLie Fibred Over Lie Algebras**
YILMAZ K., SOYLU YILMAZ E., güzelkokar a.
Ikonion Journal of Mathematics, vol.3, no.2, pp.9-16, 2021 (Peer-Reviewed Journal)
- VI. **On Crossed Squares of Commutative Algebras**
Soylu Yılmaz E., Yılmaz K.

VII. **BAUES COFIBRATION FOR QUADRATIC MODULES OF LIE ALGEBRAS**

Yilmaz K., Yilmaz E.

COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.68, no.2, pp.1653-1663, 2019 (ESCI)

Books & Book Chapters

I. **Homotopi 2-tip Yapıların Bazı Kategoriksel Özellikleri**

SOYLU YILMAZ E.

in: Modern Matematikte Yeni Yaklaşımlar, Eryılmaz, İlker, Editor, Bidge Yayınevi, Ankara, pp.10-21, 2023

II. **Pseudo Quadratic Modules**

SOYLU YILMAZ E.

in: CURRENT DEBATES in SCIENCE and MATHEMATICS, DEMİRÇALI Aykut, Editor, Duvar Publishing, İzmir, pp.83-98, 2022

III. **CEBİRLER ÜZERİNDE KUADRATİKMODÜLLER**

SOYLU YILMAZ E., YILMAZ K.

in: ACADEMIC STUDIESIN MATHEMATICS ANDNATURAL SCIENCES-2019/2, KARAPINAR, RIDVAN, Editor, ivpe, Cetinje, pp.135-145, 2019

IV. **GRUPLAR ÜZERİNDE KUADRATİK MODÜLLER**

SOYLU YILMAZ E., YILMAZ K.

in: ACADEMIC STUDIESIN MATHEMATICS ANDNATURAL SCIENCES-2019/2, Karapınar, Rıdvan, Editor, IVPE, Cetinje, pp.105-116, 2019

Refereed Congress / Symposium Publications in Proceedings

I. **Data visualization with topological data analysis**

SOYLU YILMAZ E., YILMAZ K.

4th international black sea modern scientific research congress, 06 June 2023

II. **Supervised Learning with topological data analysis**

SOYLU YILMAZ E., YILMAZ K.

4th international black sea modern scientific research congress, Rize, Turkey, 06 June 2023

III. **Soft groups with an application**

SOYLU YILMAZ E., EGE ARSLAN U.

7. Uluslararası Erciyes Bilimsel Araştırmalar Kongresi, Kayseri, Turkey, 9 - 10 March 2022

IV. **Internal Cat-1 and XMod**

EGE ARSLAN U., SOYLU YILMAZ E.

icaens 2021, Konya, Turkey, 01 November 2021

V. **EQUIVALENCES BETWEEN THE CATEGORIES**

Soylu Yılmaz E., Ege Arslan U.

1. ULUSLARARASI UYGULAMALI MÜHENDİSLİK VE TEMEL BİLİMLER KONGRESİ, Konya, Turkey, 1 - 03 November 2021, pp.1-3

VI. **ULTRA-GROUPS: THEORY AND GAP APPLICATIONS'**

Soylu Yılmaz E., Ege Arslan U.

8. ULUSLARARASI TEMEL VE UYGULAMALI BİLİMLER KONGRESİ , Antalya, Turkey, 19 - 21 October 2021, pp.1-10

VII. **On Relations Among Quadratic Modules**

SOYLU YILMAZ E., YILMAZ K.

IECMSA 2020, Turkey, 25 August 2020

VIII. **Lie cebirlerinin örgülü çaprazlanmış modülleri üzerine**

- YILMAZ K., SOYLU YILMAZ E.
Ubcak Congress 2019, 14 - 16 October 2019
- IX. **BXModLie kategorisinin tamlik özelliği üzerine**
SOYLU YILMAZ E., YILMAZ K.
Ubcak Congress 2019, 14 - 16 October 2019
- X. **BXModLie kategorisi Lie cebirleri üzerinden fibredir**
SOYLU YILMAZ E., YILMAZ K.
Ubcak Congress 2019, 14 - 16 October 2019
- XI. **BXModLie için çarpım ve sonlu limitler**
YILMAZ K., SOYLU YILMAZ E.
Ubcak Congress 2019, 14 - 16 October 2019
- XII. **Finite Limit Calculations in 2-Crossed R-Modules of Algebras**
YILMAZ K., SOYLU YILMAZ E., ULUALAN E.
International Conference on Mathematics, İstanbul, İstanbul, Turkey, 03 July 2018
- XIII. **A change of base for braided crossed modules of groups**
ULUALAN E., YILMAZ K., SOYLU YILMAZ E.
International Conference on Mathematics, İstanbul, 3 - 06 July 2018
- XIV. **On mathched triples of groupoids**
YILMAZ K., SOYLU YILMAZ E., ULUALAN E.
International Conference on Mathematics, İstanbul, 3 - 06 July 2018
- XV. **On free quadratic modules of Lie Algebras**
ULUALAN E., YILMAZ K., SOYLU YILMAZ E.
International Conference on Mathematics, İstanbul, 3 - 06 July 2018
- XVI. **Braided Crossed Modules and Reduced Qadratic modules of Associative Algebras**
ULUALAN E., YILMAZ K., SOYLU YILMAZ E.
International Conference on Mathematics, İstanbul, 3 - 06 July 2018
- XVII. **Coproduct of 2-crossed R-modules of Algebras**
YILMAZ K., ULUALAN E., SOYLU YILMAZ E.
International Conference on Mathematics, İstanbul, 3 - 06 July 2018
- XVIII. **Finite Limit Calculatinons in 2-crossed R-modules of Algebras**
ULUALAN E., YILMAZ K., SOYLU YILMAZ E.
International Conference on Mathematics, İstanbul, 3 - 06 July 2018
- XIX. **Some categorical properties of crossed squares**
SOYLU YILMAZ E., YILMAZ K.
2nd International Conference on Science, Ecology and Technology - 2016, 14 - 16 October 2016
- XX. **HASKELL IMPLEMENTATION OF A SMALL CATEGORY**
SOYLU E., ODABAŞ A.
THE INTERNATIONAL CONFERENCE ON SCIENCE, ECOLOGY AND TECHNOLOGY I, VIYANA, Austria, 25 - 28 August 2015
- XXI. **Paralel Programlama Ortamları**
SOYLU YILMAZ E., AKÇAY M.
akademik Bilişim 2015, Turkey, 4 - 06 February 2015
- XXII. **FONKSİYONEL VE İMPERATİVE PROGRAMLAMA İLE SIRALAMA**
AKÇAY M., SOYLU YILMAZ E.
Akademik bilişim 'xx2014, Turkey, 5 - 07 February 2014

Supported Projects

EGE ARSLAN U., SOYLU YILMAZ E., KUNDAKÇIOĞLU Ş., Project Supported by Higher Education Institutions, ULTRA GRUPLAR ÜZERİNE, 2022 - Continues

Soylu Yılmaz E., Ulualan E., TUBITAK Project, Örgülü Regüler 2-Çaprazlanmış Modüller, 2022 - 2023

Soylu Yılmaz E., Odabaş A., Project Supported by Higher Education Institutions, Grup ile Etkiler Üzerinde Hesaplamalar ve GAP, 2015 - 2017

Scientific Refereeing

COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS,

Journal Indexed in SCI-E, August 2023

Journal of New Theory, Other Indexed Journal, May 2023

Yüzüncü Yıl Üniversitesi Fen Bilimleri Enstitüsü Dergisi, Other Indexed Journal, May 2023

Journal of New Theory, Other Indexed Journal, June 2022

Journal of Universal Mathematics, Other Indexed Journal, April 2022

İkonion Journal of mathematics, Other Indexed Journal, March 2022

Journal of Universal Mathematics, Other Indexed Journal, December 2021

Ikonion Journal of Mathematics, Other Indexed Journal, October 2020

AFYON KOCATEPE ÜNİVERSİTESİ FEN BİLİMLERİ DERGİSİ, National Scientific Refreed Journal, March 2020

Metrics

Publication: 36

Scholarships

2211-A, TUBITAK, 2013 - 2019

2210A, TUBITAK, 2009 - 2011