

## Assoc. Prof. HÜRMET FULYA AKIZ

### Personal Information

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### International Researcher IDs

ORCID: 0000-0002-8547-2175

Yoksis Researcher ID: 107865

### Education Information

Undergraduate, Hacettepe University, Eğitim Fakültesi, Yabancı Diller Eğitimi Bölümü, Turkey 2014 - 2016

Doctorate, Erciyes University, Fen Bilimleri Enstitüsü, Turkey 2007 - 2013

Postgraduate, Erciyes University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), Turkey 2005 - 2007

Undergraduate, Erciyes University, Fen-Edebiyat Fakültesi, Matematik Pr. (İö), Turkey 2001 - 2005

### Foreign Languages

English, C1 Advanced

### Certificates, Courses and Trainings

Other, Doktora Araştırmacısı, Bielefeld Üniversitesi, 2008

### Dissertations

Doctorate, İç (Internal) grupoidler ve örtü morfizmleri, Erciyes University, Fen Bilimleri Enstitüsü, Matematik (Dr), 2013

Postgraduate, Topolojik grupların evrensel örtüleri üzerine, Erciyes University, Fen Bilimleri Enstitüsü, 2007

### Research Areas

Algebraic Topology, General Mathematics, General Topology, Topological Groups, Lie Groups

### Academic Titles / Tasks

Associate Professor, Yozgat Bozok University, Fen-Edebiyat Fakültesi, Matematik, 2023 - Continues

### Academic and Administrative Experience

Deputy Head of Department, Yozgat Bozok University, Fen-Edebiyat Fakültesi, Matematik, 2018 - Continues

Erasmus Coordinator, Yozgat Bozok University, Fen-Edebiyat Fakültesi, Matematik, 2018 - Continues

## Courses

Kompleks Analiz II, Undergraduate, 2023 - 2024  
Cebir II, Undergraduate, 2021 - 2022  
Seminer, Postgraduate, 2020 - 2021  
Topolojiye Giriş I, Postgraduate, 2021 - 2022  
Matematik II, Undergraduate, 2020 - 2021  
Topoloji I, Undergraduate, 2021 - 2022  
Cebir I, Undergraduate, 2021 - 2022  
Matematik Tarihi I-II, Undergraduate, 2020 - 2021  
Matematik I, Undergraduate, 2013 - 2014  
Topolojik Gruplar II, Undergraduate, 2013 - 2014  
Topolojiye Giriş II, Postgraduate, 2013 - 2014  
Topolojik Gruplar II, Postgraduate, 2013 - 2014  
Topoloji II, Undergraduate, 2013 - 2014

## Advising Theses

Akız H. F., İdeal topolojik uzaylarda süreklilik üzerine bir çalışma, Postgraduate, B.BİLGİN(Student), 2022  
Akız H. F., Kamacı H., Sayısal değişkene bağlı abstract fonksiyonların kuvvet serisine açılımının kullanılmasıyla operatör denklemlerin çözüm yöntemi üzerine, Postgraduate, G.BAYRAKTAR(Student), 2022  
Akız H. F., İdeal topolojik uzaylarda açık ve kapalı kümelere bir yaklaşım, Postgraduate, M.ÖZCAN(Student), 2022  
Akız H. F., İdeal topolojik uzaylarda ayırma aksiyonları, Postgraduate, M.BOZDAĞ(Student), 2022  
AKIZ H. F., Esnek reel noktalar, Postgraduate, B.ALTINKESER(Student), 2020  
AKIZ H. F., Dizisel hausdorffluk ve dizisel kompaktlık, Postgraduate, H.AYHAN(Student), 2019  
AKIZ H. F., Topolojik grupların ve topolojik halkaların esnek alt yapıları, Postgraduate, C.KOÇAY(Student), 2019  
AKIZ H. F., Bijektif esnek cümleler ve karar verme metotları, Postgraduate, E.TOKTAŞ(Student), 2018  
AKIZ H. F., Esnek matrisler kullanılarak elde edilen karar verme metotları üzerine, Postgraduate, K.SALTIK(Student), 2018  
AKIZ H. F., Topolojik uzayların dizisel anlamda incelenmesi, Postgraduate, L.KOÇAK(Student), 2017  
AKIZ H. F., Üretilen esnek topoloji, Postgraduate, M.TÜKEL(Student), 2017

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Coverings of Local Topological Groups**  
AKIZ H. F.  
FILOMAT, vol.36, no.20, pp.7083-7089, 2022 (SCI-Expanded)
- II. **Covering morphisms of topological internal groupoids**  
MUCUK O., AKIZ H. F.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.49, no.3, pp.1020-1029, 2020 (SCI-Expanded)
- III. **Covering Morphisms of Local Topological Group-Groupoids**  
AKIZ H. F.  
PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES INDIA SECTION A-PHYSICAL SCIENCES, vol.88, no.4, pp.603-606, 2018 (SCI-Expanded)
- IV. **Cardinality inverse soft matrix theory and its applications in multicriteria group decision making**  
KAMACI H., Saltik K., AKIZ H. F., Atagun A. O.

JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.34, no.3, pp.2031-2049, 2018 (SCI-Expanded)

- V. **Monodromy Groupoid of an Internal Groupoid in Topological Groups with Operations**  
MUCUK O., AKIZ H. F.  
FILOMAT, vol.29, no.10, pp.2355-2366, 2015 (SCI-Expanded)
- VI. **Coverings of internal groupoids and crossed modules in the category of groups with operations**  
AKIZ H. F., ALEMDAR N., MUCUK O., Sahan T.  
GEORGIAN MATHEMATICAL JOURNAL, vol.20, no.2, pp.223-238, 2013 (SCI-Expanded)

## Articles Published in Other Journals

- I. **I-Sequentially Connectedness**  
Akız H. F., Başar K.  
Bozok Journal of Science, vol.2, no.1, pp.24-29, 2024 (Peer-Reviewed Journal)
- II. **Generalized crossed modules over generalized group-groupoids**  
AKIZ H. F.  
KOREAN JOURNAL OF MATHEMATICS, vol.32, no.1, pp.27-42, 2024 (ESCI)
- III. **Liftings of Crossed Modules in the Category of Groups with Operations**  
AKIZ H. F., MUCUK O., ŞAHAN T.  
BOLETIM SOCIEDADE PARANAENSE DE MATEMATICA, vol.38, no.7, pp.181-193, 2020 (ESCI)
- IV. **I-Dizisel Hausdorff Uzaylar**  
AKIZ H. F.  
Gümüşhane Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.9, no.4, pp.628-632, 2019 (Peer-Reviewed Journal)
- V. **On algebraic properties of soft real points**  
Hussain S., AKIZ H. F., Alajlan A. I.  
Fixed Point Theory and Applications, vol.2019, no.1, 2019 (Scopus)
- VI. **SEQUENTIALLY HAUSDORFF AND FULL SEQUENTIALLY HAUSDORFF SPACES**  
AKIZ H. F., Kocak L.  
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.68, no.2, pp.1724-1732, 2019 (ESCI)
- VII. **MONODROMY GROUPOID OF A LOCAL TOPOLOGICAL GROUP-GROUPOID**  
AKIZ H. F.  
KOREAN JOURNAL OF MATHEMATICS, vol.27, no.2, pp.547-562, 2019 (ESCI)
- VIII. **The Fundamental Groupoid as a Crossed Module in the Category of Local Groups**  
AKIZ H. F.  
International Journal of Scientific and Technological Researches, vol.4, no.3, pp.70-75, 2018 (Peer-Reviewed Journal)
- IX. **On Soft Real Point Matrices and Their Operations**  
Hussain S., AKIZ H. F., Alajlan A. I.  
Moroccan Journal of Pure and Applied Analysis, vol.4, no.1, pp.9-16, 2018 (Scopus)

## Books & Book Chapters

- I. **A NOTE ON THE FUNDAMENTAL GROUPOID AS A VECTOR SPACE-GROUPOID**  
Akız H. F.  
in: Mathematic Researches in Mathematics and Sciences, Eda Altunel, Prof. Dr. Hasan Akgül, Editor, Gece Yayınevi, Ankara, pp.21-25, 2018

## Refereed Congress / Symposium Publications in Proceedings

- I.  **$\gamma$ - $\beta$ -I AÇIK KÜMELER VE  $\gamma$ - $\beta$ -I SÜREKLİLİK**  
Akız H. F., Çakır Kartal S.  
Ankara Matematik Günleri 2024, Ankara, Turkey, 23 - 24 May 2024, pp.69
- II. **SEQUENTIALLY CONTINUITY IN IDEAL TOPOLOGICAL SPACES**  
Akız H. F., Babaarslan F.  
V. INTERNATIONAL CAPPADOCIA SCIENTIFIC RESEARCH CONGRESS , Nevşehir, Turkey, 5 - 07 November 2023, pp.712-718
- III. **Liftings of Local Crossed Modules**  
Akız H. F., Mucuk O.  
7 th INTERNATIONAL CONFERENCE OF MATHEMATICAL SCIENCES ICMS 2023, İstanbul, Turkey, 5 - 09 July 2023, pp.13
- IV. **gamma-b-I connectedness**  
Akız H. F.  
International E-conference on Mathematical and Statistical Sceinces: A Selçuk meeting, Konya, Turkey, 20 - 22 October 2022, pp.23
- V. **Some Properties of Generalized Open Sets in Ideal Topological Spaces**  
Akız H. F., Özcan M.  
8TH INT. IFS AND CONTEMPORARY MATHEMATICS CONFERENCE, Mersin, Turkey, 16 June 2022, pp.155
- VI. **An Approach to Continuity and Convergence in Ideal Topological Spaces**  
Akız H. F., Bilgin B.  
8TH INT. IFS AND CONTEMPORARY MATHEMATICS CONFERENCE, Mersin, Turkey, 16 June 2022, pp.140
- VII. **Normality and quotients in local crossed modules and local group-groupoids**  
Akız H. F.  
Fifth International Conference on Mathematical Science (ICMS 2021), İstanbul, Turkey, 23 - 27 June 2021, pp.20
- VIII. **Local Group Groupoids and Local CrossedModules**  
AKIZ H. F., MUCUK O.  
FOURTH INTERNATIONAL CONFERENCE OF MATHEMATICAL SCIENCES (ICMS 2020), 17 - 21 June 2020
- IX. **Local Group Groupoids and Local CrossedModules**  
AKIZ H. F., MUCUK O.  
FOURTH INTERNATIONAL CONFERENCE OF MATHEMATICAL SCIENCES (ICMS 2020), 17 - 21 June 2020
- X. **Topological aspect of monodromy groupoid for a topological internal groupoid**  
AKIZ H. F., MUCUK O.  
3rd International Conference of Mathematical Sciences (ICMS), İstanbul, Turkey, 4 - 08 September 2019, vol.2183
- XI. **Internal groupoid actions and liftings of crossed modules within groups with operations**  
AKIZ H. F., MUCUK O., ŞAHAN T.  
International Conference of Mathematical Sciences (ICMS), İstanbul, Turkey, 31 July - 06 August 2018, vol.2086
- XII. **SEQUENTIALLY HAUSDORFF SPACES**  
AKIZ H. F., lokman k.  
II. INTERNATIONALSCIENTIFIC AND VOCATIONALSTUDIES CONGRESS (BILMES 2018), Nevşehir, Turkey, 28 June 2010 - 08 July 2018
- XIII. **Women wo have not played the roles casted by societies: Women Mathematicians**  
AKIZ H. F.  
1st International women'xks congress, Ankara, Turkey, 14 - 16 October 2016
- XIV. **Mars, In terms of Relations Between Underground Treasures and Cosmos**  
AKIZ H. F.  
1st International Underground Resources and Energy Conference, Yozgat, Turkey, 06 November 2016, pp.38
- XV. **Topological Covering Morphisms of Internal Groupoids in Topological Groups with operations**  
AKIZ H. F., MUCUK O.  
2nd International Conference on Pure and Applied Sciences, İstanbul, Turkey, 01 June 2016
- XVI. **Soft Topology Derived By Soft Points and Fixed Point Functions**  
Akız H. F.

- 23rd International Academic Conference, Venice, Italy, 25 - 27 April 2016, pp.200-201
- XVII. **SOME GENERALIZATIONS OF SOFT MATRIX PRODUCTS**  
KAMACI H., ATAGÜN A. O., AKIZ H. F.  
International Conference on Mathematics and Mechanics (ICMM 2015), Paris, France, 27 - 28 April 2015, pp.12
- XVIII. **Topological Soft Substructures of Topological Groups and Topological Rings**  
Akız H. F.  
International Conference On Mathematics and Mechanics, Paris, France, 27 - 29 April 2015, pp.150-151
- XIX. **Local Topological Group-Groupoid Coverings and Actions**  
Akız H. F.  
IX. Iberoamerican Conference on Topology and Its Applications, Almería, Spain, 8 - 12 June 2014, pp.45-46
- XX. **Topological Internal Groupoids and Their Coverings**  
AKIZ H. F., ALEMDAR N., ŞAHAN T., MUCUK O.  
1st International Euroasian Conference on Mathematical Sciences and Applications, Prishtina, Serbia, 3 - 06 September 2012, pp.230
- XXI. **Local Topological Groups and Crossed Modules**  
AKIZ H. F., ŞAHAN T., MUCUK O.  
International Conference On Mathematical Science, 23 - 27 November 2010
- XXII. **Internal Groupoids Topological Group with Operations and Crossed Modules**  
AKIZ H. F., ALEMDAR N., MUCUK O.
- XXIII. Ulusal Matematik Sempozyumu, Kayseri, Turkey, 4 - 07 August 2010

## Supported Projects

- Akız H. F., Taştan S., TUBITAK Project, Choquet Oyunu ile D-Uzaylarının Sınırlarını Zorlamak, 2024 - 2025
- AKIZ H. F., BABAARSLAN F., Project Supported by Higher Education Institutions, İdeal Topolojik Uzaylarda Dizisel Süreklilik, 2023 - 2024
- AKIZ H. F., BACAKSIZ B., Project Supported by Higher Education Institutions, İdeal Topolojik Uzaylarda Süreklilik Üzerine Bir Çalışma, 2022 - 2022
- AKIZ H. F., ÖZCAN M., Project Supported by Higher Education Institutions, İdeal Topolojik Uzaylarda Açık ve Kapalı Kümelere Bir Yaklaşım, 2022 - 2022

## Activities in Scientific Journals

- Pure and Applied Mathematics Journal, Editor, 2021 - Continues
- Expert Opinion on Astronomy and Astrophysics, Editor, 2018 - Continues

## Metrics

- Publication: 38
- Citation (WoS): 50
- Citation (Scopus): 49
- H-Index (WoS): 3
- H-Index (Scopus): 3

## Scholarships

- 2008/2009 Erasmus Bursu/ Doktora Öğrencisi, University, 2008 - 2009