

## Prof. HALİS AYGÜN

### Personal Information

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### International Researcher IDs

ScholarID: e-ne-CoAAAAJ

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Publons / Web Of Science ResearcherID: G-1007-2018

ScopusID: 6603592217

Yoksis Researcher ID: 3479

### Education Information

Doctorate, City University, London, Matematik, England 1994 - 1997

Postgraduate, Karadeniz Technical University, Fen-Edebiyat Fakültesi, Matematik Bölümü, Turkey 1989 - 1992

Undergraduate, Karadeniz Technical University, Fen-Edebiyat Fakültesi, Matematik Bölümü, Turkey 1985 - 1989

### Foreign Languages

English, B2 Upper Intermediate

### Research Areas

Mathematics, Functional Analysis, General Topology, Mathematical Logic and Foundations, Natural Sciences

### Academic Titles / Tasks

Professor, Kocaeli University, Fen Edebiyat Fakültesi, Matematik, 2006 - Continues

Associate Professor, Kocaeli University, Fen Edebiyat Fakültesi, Matematik, 2000 - 2006

Assistant Professor, Kocaeli University, Fen Edebiyat Fakültesi, Matematik, 1998 - 2000

Research Assistant, Kocaeli University, Fen Edebiyat Fakültesi, Matematik, 1993 - 1998

Research Assistant, Karadeniz Technical University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 1989 - 1993

### Academic and Administrative Experience

Head of Department, Kocaeli University, Fen Edebiyat Fakültesi, Matematik, 2023 - Continues

ÖSYM Başkanı, 2018 - 2022

Dean, Kocaeli University, Fen Edebiyat Fakültesi, Matematik, 2011 - 2018

Member of the Senate, Kocaeli University, Fen Edebiyat Fakültesi, Matematik, 2009 - 2018

Head of Department, Kocaeli University, Fen Edebiyat Fakültesi, Matematik, 2006 - 2018

Head of Department, Kocaeli University, Fen Edebiyat Fakültesi, Matematik, 2001 - 2018  
Kocaeli Üniversitesi, Hereke Ömer İsmet Uzunyol Meslek Yüksekokulu, 2009 - 2011  
Manager of Research and Application Center, Kocaeli University, 2006 - 2009  
Kocaeli Üniversitesi, Fen-Edebiyat Fakültesi, 2005 - 2006  
Deputy Head of Department, Kocaeli University, Fen Edebiyat Fakültesi, Matematik, 2000 - 2005

## Courses

Seminer II, Undergraduate, 2022 - 2023  
Seminer I, Undergraduate, 2023 - 2024  
Uzmanlık Alan Dersi, Doctorate, 2022 - 2023  
Doktora Yeterlik, Doctorate, 2022 - 2023  
Topolojiden Seçme Konular, Undergraduate, 2022 - 2023  
Doktora Tez, Doctorate, 2022 - 2023  
Topoloji I, Undergraduate, 2023 - 2024  
Metrik Uzaylar, Undergraduate, 2023 - 2024  
Seminer I, Undergraduate, 2017 - 2018, 2016 - 2017  
İleri Analiz I, Undergraduate, 2017 - 2018, 2016 - 2017  
Bilim Tarihi, Undergraduate, 2017 - 2018  
Topoloji I, Undergraduate, 2017 - 2018, 2016 - 2017  
Seminer II, Undergraduate, 2016 - 2017  
İleri Analiz II, Undergraduate, 2016 - 2017  
Topoloji II, Undergraduate, 2016 - 2017

## Advising Theses

Aygün H., Bulanık kısmi metrik yapıların kategorik olarak incelenmesi ve uygulamaları, Doctorate, E.GÜNER(Student), 2023  
Aygün H., Kısmi bulanık metrik uzaylar ve sabit nokta teoremleri, Postgraduate, B.ALDEMİR(Student), 2021  
Aygün H., Bulanık esnek metrikler tarafından üretilen topolojik yapılar, Doctorate, E.AYDOĞDU(Student), 2019  
Aygün H., 2-metrik uzaylar ve sabit nokta teoremleri, Postgraduate, E.GÜNER(Student), 2017  
Aygün H., Bulanık esnek topolojik yapılar, Doctorate, V.ÇETKİN(Student), 2014  
Aygün H., Bulanık esnek topolojik uzaylar, Doctorate, B.PAZAR(Student), 2012  
Aygün H., Esnek topolojik uzay, Doctorate, A.AYGÜNOĞLU(Student), 2011  
Aygün H., Latis değerli bulanık topolojik uzaylar, Postgraduate, V.ÇETKİN(Student), 2009  
Aygün H., Aralık değerli sezgisel bulanık topolojik uzaylar, Postgraduate, A.AYGÜNOĞLU(Student), 2007  
Aygün H., Smooth L-fuzzy topolojik uzaylarda kompaktlığın zayıf ve güçlü formları ve aralarındaki ilişkiler, Doctorate, A.ARZU(Student), 2007  
Aygün H., Smooth topolojik uzaylarda kompaktlık, Postgraduate, B.PAZAR(Student), 2006  
Aygün H., L-fuzzy topolojik uzaylarda kompaktlık, Postgraduate, Ö.ERGÜN(Student), 2005  
Aygün H., Fuzzy topolojik uzaylarda kompaktlık, Postgraduate, A.ARZU(Student), 2003  
Aygün H., Devirli grupların serbest çarpımlarının tek bağıntılı bölüm grupları, Doctorate, Y.TÜRKER(Student), 2002

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

- Information Measures on Linear Diophantine Fuzzy Soft Sets with Their Applications to the Medical Diagnosis**  
Aldemir B., Aydoğdu E., Güner E., Aygün H.

JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING, vol.0, no.0, pp.1-33, 2024 (SCI-Expanded)

- II. **Complex spherical fuzzy TOPSIS based on entropy**  
AYDOĞDU E., GÜNER E., Aldemir B., AYGÜN H.  
Expert Systems with Applications, vol.215, 2023 (SCI-Expanded)
- III. **A Novel Entropy Measure with its Application to the COPRAS Method in Complex Spherical Fuzzy Environment**  
Aydoğdu E., Aldemir B., Güner E., Aygün H.  
INFORMATICA, vol.0, no.0, pp.1-33, 2023 (SCI-Expanded)
- IV. **Fuzzy Partial Metric Spaces and Fixed Point Theorems**  
AYGÜN H., GÜNER E., Minana J., Valero O.  
MATHEMATICS, vol.10, no.17, 2022 (SCI-Expanded)
- V. **Spherical fuzzy soft sets: Theory and aggregation operator with its applications**  
GÜNER E., AYGÜN H.  
IRANIAN JOURNAL OF FUZZY SYSTEMS, vol.19, no.2, pp.83-97, 2022 (SCI-Expanded)
- VI. **A new approach to fuzzy partial metric spaces**  
GÜNER E., AYGÜN H.  
Hacettepe Journal of Mathematics and Statistics, vol.51, no.6, pp.1563-1576, 2022 (SCI-Expanded)
- VII. **A fixed point principle in ordered metric spaces and applications to rational type contractions**  
Eroğlu I., GÜNER E., AYGÜN H., Valero O.  
AIMS Mathematics, vol.7, no.7, pp.13573-13594, 2022 (SCI-Expanded)
- VIII. **On 2S-metric spaces**  
ÇETKİN V., GÜNER E., AYGÜN H.  
SOFT COMPUTING, vol.24, no.17, pp.12731-12742, 2020 (SCI-Expanded)
- IX. **Construction of Fuzzy Topology by Using Fuzzy Metric**  
AYGÜNOĞLU A., AYDOĞDU E., AYGÜN H.  
FILOMAT, vol.34, no.2, pp.433-441, 2020 (SCI-Expanded)
- X. **Fuzzy Soft Metric and Fuzzifying Soft Topology Induced by Fuzzy Soft Metric**  
AYGÜNOĞLU A., AYDOĞDU E., AYGÜN H.  
FILOMAT, vol.33, no.2, pp.645-653, 2019 (SCI-Expanded)
- XI. **A topological view on L-fuzzy soft sets: Connectedness degree**  
ÇETKİN V., AYGÜN H.  
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.34, no.3, pp.1975-1983, 2018 (SCI-Expanded)
- XII. **On neutrosophic submodules of a module**  
Çetkin V., Varol B. P., Aygun H.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.46, no.5, pp.791-799, 2017 (SCI-Expanded)
- XIII. **A topological view on application of L-fuzzy soft sets: Compactness**  
ÇETKİN V., AYGÜNOĞLU A., AYGÜN H.  
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.32, no.1, pp.781-790, 2017 (SCI-Expanded)
- XIV. **On L-soft merotopies**  
ÇETKİN V., AYGÜN H.  
SOFT COMPUTING, vol.20, no.12, pp.4779-4790, 2016 (SCI-Expanded)
- XV. **On Soft Fuzzy Closure and Interior Operators**  
ÇETKİN V., AYGÜNOĞLU A., AYGÜN H.  
UTILITAS MATHEMATICA, vol.99, pp.341-367, 2016 (SCI-Expanded)
- XVI. **CATS of soft topological spaces**  
ÇETKİN V., AYGÜNOĞLU A., AYGÜN H.  
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.30, no.4, pp.1903-1913, 2016 (SCI-Expanded)
- XVII. **A new approach in handling soft decision making problems**  
ÇETKİN V., AYGÜNOĞLU A., AYGÜN H.  
JOURNAL OF NONLINEAR SCIENCES AND APPLICATIONS, vol.9, no.1, pp.231-239, 2016 (SCI-Expanded)
- XVIII. **On Convergence of Soft Nets**

- ÇETKİN V., AYGÜN H.  
JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING, vol.26, pp.175-187, 2016 (SCI-Expanded)
- XIX. **Soft sets over power sets: Generalities and applications to topology**  
Varol B. P., AYGÜN H.  
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.29, no.1, pp.389-395, 2015 (SCI-Expanded)
- XX. **An approach to neutrosophic subgroup and its fundamental properties**  
ÇETKİN V., AYGÜN H.  
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.29, no.5, pp.1941-1947, 2015 (SCI-Expanded)
- XXI. **An introduction to fuzzy soft topological spaces**  
AYGÜNOĞLU A., ÇETKİN V., AYGÜN H.  
Hacettepe Journal Of Mathematics And Statistics, vol.43, pp.197-208, 2014 (SCI-Expanded)
- XXII. **An Approach to the Concept of Soft Fuzzy Proximity**  
ÇETKİN V., Sostak A. P., AYGÜN H.  
ABSTRACT AND APPLIED ANALYSIS, 2014 (SCI-Expanded)
- XXIII. **On fuzzy soft topogenous structure**  
ÇETKİN V., AYGÜN H.  
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.27, no.1, pp.247-255, 2014 (SCI-Expanded)
- XXIV. **Neighborhood structures of fuzzy soft topological spaces**  
Varol B. P., AYGÜNOĞLU A., AYGÜN H.  
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.27, no.4, pp.2127-2135, 2014 (SCI-Expanded)
- XXV. **On embedding problem of fuzzy number valued continuous functions**  
AYGÜNOĞLU A., ÇETKİN V., AYGÜN H.  
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.25, no.1, pp.243-246, 2013 (SCI-Expanded)
- XXVI. **On double fuzzy preuniformity**  
ÇETKİN V., AYGÜN H.  
JOURNAL OF NONLINEAR SCIENCES AND APPLICATIONS, vol.6, no.4, pp.263-278, 2013 (SCI-Expanded)
- XXVII. **Fuzzy soft topology**  
Varol B., AYGÜN H.  
Hacettepe Journal of Mathematics and Statistics, vol.41, no.3, pp.407-419, 2012 (SCI-Expanded)
- XXVIII. **ON (L, M)-FUZZY CLOSURE SPACES**  
AYGÜN H., ÇETKİN V., ABBAS S. E.  
IRANIAN JOURNAL OF FUZZY SYSTEMS, vol.9, no.5, pp.41-62, 2012 (SCI-Expanded)
- XXIX. **Interval valued intuitionistic fuzzy subgroups based on interval valued double t norm**  
AYGÜNOĞLU A., PAZAR VAROL B., ÇETKİN V., AYGÜN H.  
Neural Computing & Applications, vol.21, pp.207-214, 2012 (SCI-Expanded)
- XXX. **A new approach to soft topology**  
Varol B., SHOSTAK A., AYGÜN H.  
Hacettepe Journal of Mathematics and Statistics, vol.41, no.5, pp.731-741, 2012 (SCI-Expanded)
- XXXI. **Intuitionistic Fuzzy Metric Groups**  
PAZAR VAROL B., AYGÜN H.  
International Journal Of Fuzzy Systems, vol.14, pp.454-461, 2012 (SCI-Expanded)
- XXXII. **Some notes on soft topological spaces**  
AYGÜNOĞLU A., AYGÜN H.  
NEURAL COMPUTING & APPLICATIONS, vol.21, 2012 (SCI-Expanded)
- XXXIII. **(r, s)-CONVERGENT NETS**  
Aygün H., Abbas S. E.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.41, no.2, pp.175-190, 2012 (SCI-Expanded)
- XXXIV. **On (L, M)-Double Fuzzy Ideals**  
ÇETKİN V., AYGÜN H.  
INTERNATIONAL JOURNAL OF FUZZY SYSTEMS, vol.14, no.1, pp.166-174, 2012 (SCI-Expanded)
- XXXV. **(r,s)-convergent nets**

- Aygün H., Abbas S.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.41, no.2, pp.175-190, 2012 (SCI-Expanded)
- XXXVI. **Lattice valued double fuzzy preproximity spaces**  
ÇETKİN V., AYGÜN H.  
COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.60, no.3, pp.849-864, 2010 (SCI-Expanded)
- XXXVII. **Introduction to fuzzy soft groups**  
AYGÜNOĞLU A., AYGÜN H.  
COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol.58, no.6, pp.1279-1286, 2009 (SCI-Expanded)
- XXXVIII. **SOME GOOD EXTENSIONS OF COMPACTNESS IN SOSTAK'S L-FUZZY TOPOLOGY**  
AYGÜN H., Abbas S. E.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.36, no.2, pp.115-125, 2007 (SCI-Expanded)
- XXXIX. **Intuitionistic fuzzy semiregularization spaces**  
Abbas S., Aygun H.  
INFORMATION SCIENCES, vol.176, no.6, pp.745-757, 2006 (SCI-Expanded)
- XL. **On characterizations of some covering properties in L-fuzzy topological spaces in Sostak's sense**  
Aygun H., Abbas S.  
INFORMATION SCIENCES, vol.165, no.3-4, pp.221-233, 2004 (SCI-Expanded)
- XLI. **alpha-Compactness in L-fuzzy topological spaces**  
Aygun H.  
FUZZY SETS AND SYSTEMS, vol.116, no.3, pp.317-324, 2000 (SCI-Expanded)
- XLII. **Relative compactness in L-fuzzy topological spaces**  
Aygun H., Kudri S., Warner M.  
FUZZY SETS AND SYSTEMS, vol.116, no.3, pp.311-316, 2000 (SCI-Expanded)
- XLIII. **P-closedness in L-fuzzy topological spaces**  
Aygun H., Kudri S.  
FUZZY SETS AND SYSTEMS, vol.109, no.2, pp.277-283, 2000 (SCI-Expanded)
- XLIV. **Completely induced L-fuzzy topological spaces**  
Aygun H., Warner M., Kudri S.  
FUZZY SETS AND SYSTEMS, vol.103, no.3, pp.513-523, 1999 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Aggregation of Fuzzy Metric Spaces: A Fixed Point Theorem**  
GÜNER E., AYGÜN H.  
WSEAS TRANSACTIONS ON MATHEMATICS, vol.23, 2024 (Scopus)
- II. **A comparative study on the generalized spherical fuzzy Einstein aggregation operators**  
Güner E., Aygün H.  
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.37, no.1, pp.393-413, 2024 (ESCI)
- III. **Linear Diophantine Fuzzy Sets: Image Edge Detection Techniques based on Similarity Measures**  
ALDEMİR B., GÜNER E., AYGÜN H.  
WSEAS TRANSACTIONS ON SIGNAL PROCESSING, vol.19, 2023 (Peer-Reviewed Journal)
- IV. **On Partial Fuzzy Metric-Preserving Functions**  
GÜNER E., AYGÜN H.  
International Journal of Nonlinear Analysis and Applications, 2023 (Peer-Reviewed Journal)
- V. **ON SOME TRIANGULAR INEQUALITIES AND APPLICATIONS IN 2-FUZZY METRIC SPACES**  
GÜNER E., AYGÜN H.  
Turkish World Mathematical Society Journal of Applied and Engineering Mathematics, vol.13, no.2, pp.480-490, 2023 (ESCI)
- VI. **An algebraic perspective on neutrosophic sets: fields and linear spaces**  
Çetkin V., Pazar Varol B., Aygün H.

Journal of Linear and Topological Algebra, vol.10, no.3, pp.187-198, 2021 (Peer-Reviewed Journal)

VII. **On  $b_2$ -Metric Spaces**

GÜNER E., AYGÜN H.

Konuralp Journal of Mathematics, vol.9, no.1, pp.33-39, 2021 (Peer-Reviewed Journal)

VIII. **Some Fixed Point Theorems in Partial Fuzzy Metric Spaces**

ALDEMİR B., GÜNER E., AYDOĞDU E., AYGÜN H.

Journal of the Institute of Science and Technology, vol.10, no.4, pp.2889-2900, 2020 (Peer-Reviewed Journal)

IX. **The Space of Continuous Function Between Fuzzy Metric Spaces**

Aydoğdu E., Aygünoğlu A., Aygün H.

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.5, pp.8-20, 2020 (Peer-Reviewed Journal)

X. **Some Fixed Point Theorems in Partial Fuzzy Metric Spaces**

ALDEMİR B., GÜNER E., AYDOĞDU E., AYGÜN H.

Iğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.10, pp.2889-2900, 2020 (Peer-Reviewed Journal)

XI. **Intuitionistic Fuzzy Soft Near Rings Induced by (T,S)-norms**

Pazar Varol B., Aygün H.

Communications in Mathematics and Applications, vol.11, no.3, pp.499-512, 2020 (ESCI)

XII. **A New View on Neutrosophic Matrix**

Pazar Varol B., Çetkin V., Aygün H.

Journal of Hyperstructures, 2019 (Peer-Reviewed Journal)

XIII. **NEAR RINGS IN THE VIEW OF DOUBLE-FRAMED SOFT FUZZY SETS**

Khan M. B., ÇETKİN V., Mahmood T., Jan N., Ullah K., AYGÜN H.

Sigma Journal of Engineering and Natural Sciences, 2019 (ESCI)

XIV. **An Approach to Neutrosophic Subrings**

ÇETKİN V., AYGÜN H.

Sakarya University Journal of Science, 2019 (Peer-Reviewed Journal)

XV. **Some notes on soft hyperconnected spaces**

Al Saadi H. S., AYGÜN H., Al Omari A.

The Journal of Analysis, 2019 (Scopus)

XVI. **FIXED POINTS OF MULTIVALUED NONEXPANSIVE MAPPINGS IN KOHLENBACH HYPERBOLIC SPACE**

GÜNDÜZ B., AYDOĞDU E., AYGÜN H.

Journal of Computational Analysis and Applications, vol.26, pp.509-519, 2019 (Scopus)

XVII. **FIXED POINT RESULTS FOR (A)over-tilde-CONTRACTIONS IN SOFT METRIC SPACES**

GÜNER E., ÇETKİN V., AYGÜN H.

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.36, no.2, pp.315-323, 2018 (ESCI)

XVIII. **FIXED POINT RESULTS FOR  $\mathcal{S}$ -CONTRACTIONS IN SOFT METRIC SPACES**

GÜNER E., ÇETKİN V., AYGÜN H.

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, 2018 (Peer-Reviewed Journal)

XIX. **An approach to neutrosophic ideals**

ÇETKİN V., AYGÜN H.

Universal Journal of Mathematics and Applications, 2018 (Peer-Reviewed Journal)

XX. **On (L, M)-Double Fuzzy Filter Spaces**

Abd El-Latif A. A., AYGÜN H., ÇETKİN V.

ADVANCES IN FUZZY SYSTEMS, vol.2018, 2018 (ESCI)

XXI. **SOFT FIXED POINT THEOREMS IN TERMS OF SOFT ALTERING DISTANCE FUNCTION**

GÜNER E., ÇETKİN V., AYGÜN H.

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.9, no.3, pp.285-293, 2018 (ESCI)

XXII. **Hutton Uniformity in the Context of Fuzzy Soft Sets**

ÇETKİN V., AYGÜN H.

- EUROPEAN JOURNAL OF PURE AND APPLIED MATHEMATICS, vol.9, no.4, pp.419-433, 2016 (ESCI)
- XXIII. **A note on intuitionistic supra fuzzy soft topological spaces**  
ÇETKİN V., AYGÜN H.  
Notes on Intuitionistic Fuzzy Sets, vol.21, pp.48-57, 2015 (Peer-Reviewed Journal)
- XXIV. **Lattice valued fuzzy soft grills**  
ÇETKİN V., AYGÜN H.  
Journal of Mathematics and Computer Science, vol.15, pp.57-69, 2015 (ESCI)
- XXV. **Fuzzy Soft Semiregularization Spaces**  
ÇETKİN V., AYGÜN H.  
Annals of Fuzzy Mathematics and Informatics, 2014 (Peer-Reviewed Journal)
- XXVI. **On vague soft groups**  
PAZAR VAROL B., AYGÜNOĞLU A., AYGÜN H.  
Annals of Fuzzy Mathematics and Informatics, vol.7, pp.205-218, 2014 (Peer-Reviewed Journal)
- XXVII. **Uniformity structure in the context of soft set**  
ÇETKİN V., AYGÜN H.  
Annals of Fuzzy Mathematics and Informatics, vol.6, pp.69-76, 2013 (Peer-Reviewed Journal)
- XXVIII. **Extension of Shi s Quasi Uniformity to the Fuzzy Soft Sets**  
ÇETKİN V., AYGÜN H.  
Mathematical Sciences and Application E-Notes, vol.1, pp.42-50, 2013 (Peer-Reviewed Journal)
- XXIX. **On soft Hausdorff spaces**  
PAZAR VAROL B., AYGÜN H.  
Annals of Fuzzy Mathematics and Informatics, vol.5, pp.15-24, 2013 (Peer-Reviewed Journal)
- XXX. **On Fuzzy Soft Rings**  
PAZAR VAROL B., AYGÜNOĞLU A., AYGÜN H.  
Journal of Hyperstructures, vol.1, pp.1-15, 2012 (Peer-Reviewed Journal)
- XXXI. **On Stratified L filter Structure**  
ABBAS S. E., AYGÜN H., ÇETKİN V.  
International Journal of Pure and Applied Mathematics, vol.78, pp.1221-1239, 2012 (Peer-Reviewed Journal)
- XXXII. **Categories Related to Topology Viewed as Soft Sets**  
PAZAR VAROL B., SHOSTAK A., AYGÜN H.  
Advances in Intelligent Systems Research, vol.1, pp.883-890, 2011 (Peer-Reviewed Journal)
- XXXIII. **On Compactness in L fuzzy Bitopological Spaces**  
ÇETKİN V., AYGÜN H.  
Advances in Fuzzy Mathematics, vol.5, pp.81-89, 2010 (Peer-Reviewed Journal)
- XXXIV. **On L M Fuzzy Interior Spaces**  
ÇETKİN V., AYGÜN H.  
Advances in Theoretical and Applied Mathematics, vol.5, pp.177-195, 2010 (Peer-Reviewed Journal)
- XXXV. **Locally compact L-fuzzy spaces**  
Aygün H., Breuckmann T., Kudri S.  
European Journal of Pure and Applied Mathematics, vol.2, no.1, pp.147-161, 2009 (Peer-Reviewed Journal)
- XXXVI. **Fuzzy inverse compactness**  
AYGÜN H., Bural A. A., Kudri S. R.  
International Journal of Mathematics and Mathematical Sciences, vol.2008, 2008 (Scopus)
- XXXVII. **Strong Compactness and P-Closedness in Smooth L-Fuzzy Topological Spaces**  
Aygün H., Arı A. A.  
Int. J. Contemp. Math. Sciences, vol.3, no.5, pp.199-212, 2008 (Peer-Reviewed Journal)
- XXXVIII. **Some good extensions of compactness**  
Aygün H., Abbas S.  
Journal of Korean institute of intelligent systems, vol.13, no.5, pp.614-620, 2003 (Peer-Reviewed Journal)
- XXXIX. **On characterizations of some covering properties in L-fuzzy topological spaces**  
AYGÜN H., Kudri S.

Matematički Vesnik, vol.52, no.1-2, pp.55-61, 2000 (Scopus)

**XL. On some weaker forms of L-fuzzy compactness**

Aygün H., Kudri S.

Journal of Fuzzy Mathematics, vol.8, no.1, pp.27-42, 2000 (Peer-Reviewed Journal)

**XLI. On smooth L-fuzzy topological spaces**

Aygün H., Warner M., Kudri S.

Journal of Fuzzy Mathematics, vol.5, no.2, pp.321-338, 1997 (Peer-Reviewed Journal)

## **Refereed Congress / Symposium Publications in Proceedings**

**I. An application of linear Diophantine fuzzy sets to the edge detection techniques**

ALDEMİR B., GÜNER E., AYGÜN H.

IV International Conference on Mathematics and its Applications in Science and Engineering (ICMASE 2023), Spain, 12 - 14 July 2023

**II. On strong fuzzy partial metric spaces**

GÜNER E., AYGÜN H.

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**III. Generalized spherical fuzzy topological spaces with their applications to the multi-criteria decision-making problems**

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**IV. An extension of TOPSIS method to the generalized spherical fuzzy environment**

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**V. Generalized Spherical Fuzzy Hamacher Aggregation Operators**

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**X. FIXED POINT THEOREMS ON PARTIAL FUZZY METRIC SPACES**

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**XI. Some Properties of Partial Fuzzy Metric Topology**



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- XII. **On 2-Fuzzy Metric Spaces**  
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- XIII. **Güçlü b2-Metrik Uzaylar**  
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- XIV. **2-metrik Uzaylarda Meir-Keeler Tipindeki Daralma Dönüşümleri**  
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- XV. **On the Construction of Fuzzy Topology induced by a Fuzzy Metric**  
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- XVI. **On intuitionistic fuzzy 2-metric spaces**  
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- XVII. **On Fuzzy Metric Space Of Continuous Function**  
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- XVIII. **More on Ordinary Smooth Topological Spaces**  
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- XIX. **Intuitionistic Fuzzy 2-Metric Spaces: Fixed Point Theorems**  
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- XX. **2-Metric Spaces in the Soft Universe**  
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- XXI. **Fuzzy Topology Generated by Fuzzy Metric**  
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- XXV. **A View on Intuitionistic Fuzzy Soft Near Rings**  
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- XXVI. **Fuzzifying topology induced by fuzzy metric**  
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- XXVII. **Soft Metric Spaces**

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**XXIX. Soft fixed point theorems in terms of soft altering distance function**

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**XXX. A note on neutrosophic field**

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**XXXI. Some results on neutrosophic matrix**

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**XXXIII. On some fixed point theorems in soft metric spaces**

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**XXXIV. On fuzzy soft (pre)proximity structure**

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**XXXV. On Convergence and Continuity in Fuzzy Metric Spaces**

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**XXXVIII. Multi-Vague Sets application in Multi-Criteria Decision Making Problems**

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International Conference on Mathematics and Engineering, 10 - 12 May 2017

**XXXIX. Connectedness in Fuzzy Soft Topological Spaces**

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**XL. Intuitionistic Fuzzy Soft Neighborhoods**

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**XLl. A Note on Neutrosophic Subring of a Ring**

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- XLIII. **On Lowen type fuzzy soft topological spaces**  
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- XLV. **Lowen Functors in Fuzzy Soft Topological Spaces**  
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- XLVI. **A Note on Intuitionistic Supra Fuzzy Soft Topological Spaces**  
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- XLVII. **Bulanık Esnek Topolojik Uzaylarda Ayırma Aksiyomları**  
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- XLVIII. **On some properties of fuzzy soft pre uniformity structure**  
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- XLIX. **Soft Dönüşümlerde Sabit Nokta**  
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- L. **SOFT DÖNÜŞÜMLERDE SABİT NOKTA**  
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- LI. **On Convergence of Fuzzy Soft Filters**  
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- LII. **Some results on double fuzzy topogenous orders**  
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- LIII. **On some categories of proximity and strong inclusion spaces in the context of fuzzy sets**  
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- LXII. **Lattice Valued Double Fuzzy Preproximity Spaces**  
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- LXIII. **On intuitionistic fuzzy metric groups**  
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- LXIV. **Aralık Değerli Sezgisel Bulanık Küme Üzerinde Topoloji**  
AYGÜNOĞLU A., AYGÜN H., PAZAR VAROL B.  
II. Türk Dünyası Matematik Sempozyumu, Sakarya, Turkey, 04 July 2007 - 07 October 2009
- LXV. **On embedding problem of fuzzy number valued continuous functions**  
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- LXVI. **On interval valued neutrosophic subgroups**  
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- LXVII. **On compactness in L fuzzy bitopological spaces**  
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- LXIX. **Interval valued L fuzzy Topological Groups**  
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- LXX. **L M intuitionistic Fuzzy Filters**  
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- LXXI. **Üretilmiş Sezgisel Fuzzy Topolojik Uzaylar**  
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II. Türk Dünyası Matematik Sempozyumu, 4 - 07 July 2007
- LXXII. **About weakly locally compact spaces**  
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- LXXIII. **SOFT NEIGHBORHOOD SETS**  
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16th International Conference on Mathematical Modeling and Analysis, Latvia, pp.94

## Supported Projects

AYGÜN H., Project Supported by Higher Education Institutions, Bulanık Topolojik Gruplar (Banu PAZAR VAROL Tez Projesi), 2010 - 2012

## **Metrics**

Publication: 158

Citation (WoS): 751

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H-Index (WoS): 11

H-Index (Scopus): 12

## **Non Academic Experience**

KOCAELİ ÜNİVERSİTESİ

KOCAELİ ÜNİVERSİTESİ

KARADENİZ TEKNİK ÜNİVERSİTESİ