

Prof.Dr. MUSTAFA DEMİRCİ

Kişisel Bilgiler

E-posta: demirci@akdeniz.edu.tr

Web: <https://avesis.akdeniz.edu.tr/demirci>

Uluslararası Araştırmacı ID'leri

ORCID: 0000-0002-9228-9598

Publons / Web Of Science ResearcherID: C-4041-2016

Yoksis Araştırmacı ID: 128374

Eğitim Bilgileri

Doktora, Hacettepe Üniversitesi, Fen Fakültesi, Matematik Bölümü, Türkiye 1997 - 1999

Yüksek Lisans, Bolu Abant İzzet Baysal Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, Türkiye 1994 - 1996

Lisans, Hacettepe Üniversitesi, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Türkiye 1988 - 1994

Yaptığı Tezler

Doktora, Tıkız Pürüzsüz Topolojik Uzaylar Üzerine, Hacettepe Üniversitesi, Roma Hukuku, Matematik Anabilim Dalı, 1999

Yüksek Lisans, Axiomatic Theory of Intuitionistic Fuzzy Sets , Bolu Abant İzzet Baysal Üniversitesi, Fen Bilimleri Enstitüsü, Matematik Anabilim Dalı, 1996

Araştırma Alanları

Matematik, Genel Topoloji, Matematğin Temelleri ve Matematiksel Mantık, Temel Bilimler

Akademik Unvanlar / Görevler

Prof.Dr., Akdeniz Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2006 - Devam Ediyor

Doç.Dr., Akdeniz Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2001 - 2006

Öğretim Görevlisi, Akdeniz Üniversitesi, Fen Fakültesi, Matematik Bölümü, 1998 - 2001

Yönetilen Tezler

DEMİRCİ M., Olabilirlik ölçümleri, Yüksek Lisans, G.Soylu(Öğrenci), 2001

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

I. Observability in locally vague environments

DEMİRCİ M.

INTERNATIONAL JOURNAL OF APPROXIMATE REASONING, cilt.128, ss.20-31, 2021 (Hakemli Dergi)

II. On the representations of L-equivalence relations on L-fuzzy sets with applications to locally vague

environments

DEMİRÇİ M.

INTERNATIONAL JOURNAL OF GENERAL SYSTEMS, cilt.49, sa.3, ss.334-354, 2020 (Hakemli Dergi)

- III. **L-equivalence relations on L-fuzzy sets, L-partitions of L-fuzzy sets and their one-to-one connections**
DEMİRÇİ M.
INTERNATIONAL JOURNAL OF APPROXIMATE REASONING, cilt.111, ss.21-34, 2019 (Hakemli Dergi)
- IV. **Stratified categorical fixed-basis fuzzy topological spaces and their duality**
DEMİRÇİ M.
FUZZY SETS AND SYSTEMS, cilt.267, ss.1-17, 2015 (Hakemli Dergi)
- V. **Fundamental duality of abstract categories and its applications**
Demirci M.
FUZZY SETS AND SYSTEMS, cilt.256, ss.73-94, 2014 (Hakemli Dergi)
- VI. **(Z(1), Z(2))-Complete Partially Ordered Sets and Their Representations by Q-Spaces**
Demirci M.
APPLIED CATEGORICAL STRUCTURES, cilt.21, sa.6, ss.703-723, 2013 (Hakemli Dergi)
- VII. **Category-theoretic fuzzy topological spaces and their dualities**
Demirci M.
FUZZY SETS AND SYSTEMS, cilt.227, ss.1-24, 2013 (Hakemli Dergi)
- VIII. **The order-theoretic duality and relations between partial metrics and local equalities**
Demirci M.
FUZZY SETS AND SYSTEMS, cilt.192, ss.45-57, 2012 (Hakemli Dergi)
- IX. **Pointed semi-quantales and lattice-valued topological spaces**
Demirci M.
FUZZY SETS AND SYSTEMS, cilt.161, sa.9, ss.1224-1241, 2010 (Hakemli Dergi)
- X. **Strict fuzzy orderings with a given context of similarity**
Bodenhofer U., DEMİRÇİ M.
INTERNATIONAL JOURNAL OF UNCERTAINTY FUZZINESS AND KNOWLEDGE-BASED SYSTEMS, cilt.16, sa.2, ss.147-178, 2008 (Hakemli Dergi)
- XI. **Textures and C-spaces**
Demirci M.
FUZZY SETS AND SYSTEMS, cilt.158, sa.11, ss.1237-1245, 2007 (Hakemli Dergi)
- XII. **An introduction to vague complemented ordered sets**
Demirci M., Eken Z.
INFORMATION SCIENCES, cilt.177, sa.1, ss.150-160, 2007 (Hakemli Dergi)
- XIII. **The generalized associative law in vague groups and its applications - II**
Demirci M.
INFORMATION SCIENCES, cilt.176, sa.11, ss.1488-1530, 2006 (Hakemli Dergi)
- XIV. **The generalized associative law in vague groups and its applications - I**
DEMİRÇİ M.
INFORMATION SCIENCES, cilt.176, sa.7, ss.900-936, 2006 (Hakemli Dergi)
- XV. **Aggregation operators on partially ordered sets and their categorical foundations**
Demirci M.
KYBERNETIKA, cilt.42, sa.3, ss.261-277, 2006 (Hakemli Dergi)
- XVI. **Non-existence of non-trivial L-algebras containing field structure in the sense of Belohlavek and an open question**
Demirci M.
FUZZY SETS AND SYSTEMS, cilt.157, sa.2, ss.202-204, 2006 (Hakemli Dergi)
- XVII. **Products of elements in vague semigroups and their implementations in vague arithmetic**
Demirci M.
FUZZY SETS AND SYSTEMS, cilt.156, sa.1, ss.93-123, 2005 (Hakemli Dergi)

- XVIII. **A theory of vague lattices based on many-valued equivalence relations - I: general representation results**
Demirci M.
FUZZY SETS AND SYSTEMS, cilt.151, sa.3, ss.437-472, 2005 (Hakemli Dergi)
- XIX. **A theory of vague lattices based on many-valued equivalence relations - II: complete lattices**
Demirci M.
FUZZY SETS AND SYSTEMS, cilt.151, sa.3, ss.473-489, 2005 (Hakemli Dergi)
- XX. **The generalized associative law in smooth groups**
Demirci M.
INFORMATION SCIENCES, cilt.169, sa.3-4, ss.227-244, 2005 (Hakemli Dergi)
- XXI. **Fuzzy groups, fuzzy functions and fuzzy equivalence relations**
Demirci M., Recasens J.
FUZZY SETS AND SYSTEMS, cilt.144, sa.3, ss.441-458, 2004 (Hakemli Dergi)
- XXII. **Topological properties of the class of generators of an indistinguishability operator**
Demirci M.
FUZZY SETS AND SYSTEMS, cilt.143, sa.3, ss.413-426, 2004 (Hakemli Dergi)
- XXIII. **Indistinguishability operators in measurement theory, Part II: Construction of indistinguishability operators based on probability distributions**
Demirci M.
INTERNATIONAL JOURNAL OF GENERAL SYSTEMS, cilt.32, sa.5, ss.431-458, 2003 (Hakemli Dergi)
- XXIV. **Indistinguishability operators in measurement theory, Part I: Conversions of indistinguishability operators with respect to scales**
Demirci M.
INTERNATIONAL JOURNAL OF GENERAL SYSTEMS, cilt.32, sa.5, ss.415-430, 2003 (Hakemli Dergi)
- XXV. **Genuine sets, various kinds of fuzzy sets and fuzzy rough sets**
Demirci M.
INTERNATIONAL JOURNAL OF UNCERTAINTY FUZZINESS AND KNOWLEDGE-BASED SYSTEMS, cilt.11, sa.4, ss.467-494, 2003 (Hakemli Dergi)
- XXVI. **Representations of the extensions of many-valued equivalence relations**
Demirci M.
INTERNATIONAL JOURNAL OF UNCERTAINTY FUZZINESS AND KNOWLEDGE-BASED SYSTEMS, cilt.11, sa.3, ss.319-341, 2003 (Hakemli Dergi)
- XXVII. **On many-valued partitions and many-valued equivalence relations**
Demirci M.
INTERNATIONAL JOURNAL OF UNCERTAINTY FUZZINESS AND KNOWLEDGE-BASED SYSTEMS, cilt.11, sa.2, ss.235-253, 2003 (Hakemli Dergi)
- XXVIII. **Foundations of fuzzy functions and vague algebra based on many-valued equivalence relations, Part III: Constructions of vague algebraic notions and vague arithmetic operations**
Demirci M.
INTERNATIONAL JOURNAL OF GENERAL SYSTEMS, cilt.32, sa.2, ss.177-201, 2003 (Hakemli Dergi)
- XXIX. **Foundations of fuzzy functions and vague algebra based on many-valued equivalence relations, Part I: Fuzzy functions and their applications**
Demirci M.
INTERNATIONAL JOURNAL OF GENERAL SYSTEMS, cilt.32, sa.2, ss.123-155, 2003 (Hakemli Dergi)
- XXX. **Foundations of fuzzy functions and vague algebra based on many-valued equivalence relations, Part II: Vague algebraic notions**
Demirci M.
INTERNATIONAL JOURNAL OF GENERAL SYSTEMS, cilt.32, sa.2, ss.157-175, 2003 (Hakemli Dergi)
- XXXI. **Constructions of fuzzy functions based on fuzzy equalities**
Demirci M.
SOFT COMPUTING, cilt.7, sa.3, ss.199-207, 2003 (Hakemli Dergi)

- XXXII. **Arithmetic of fuzzy quantities based on vague arithmetic operations**
Demirci M.
FUZZY SETS AND SYSTEMS - IFSA 2003, PROCEEDINGS, cilt.2715, ss.159-166, 2003 (Hakemli Dergi)
- XXXIII. **Fundamentals of M-vague algebra and M-vague arithmetic operations**
Demirci M.
INTERNATIONAL JOURNAL OF UNCERTAINTY FUZZINESS AND KNOWLEDGE-BASED SYSTEMS, cilt.10, sa.1, ss.25-75, 2002 (Hakemli Dergi)
- XXXIV. **Gradation of being fuzzy function**
Demirci M.
FUZZY SETS AND SYSTEMS, cilt.119, sa.3, ss.383-392, 2001 (Hakemli Dergi)
- XXXV. **An invitation to topological structures on first order genuine sets**
Coker D., Demirci M.
FUZZY SETS AND SYSTEMS, cilt.119, sa.3, ss.521-527, 2001 (Hakemli Dergi)
- XXXVI. **Smooth subgroups and smooth homomorphisms**
Demirci M.
FUZZY SETS AND SYSTEMS, cilt.117, sa.3, ss.439-446, 2001 (Hakemli Dergi)
- XXXVII. **Smooth groups**
Demirci M.
FUZZY SETS AND SYSTEMS, cilt.117, sa.3, ss.431-437, 2001 (Hakemli Dergi)
- XXXVIII. **Fuzzy functions and their applications**
Demirci M.
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, cilt.252, sa.1, ss.495-517, 2000 (Hakemli Dergi)
- XXXIX. **Axiomatic theory of intuitionistic fuzzy sets**
Demirci M.
FUZZY SETS AND SYSTEMS, cilt.110, sa.2, ss.253-266, 2000 (Hakemli Dergi)
- XL. **Some notices on genuine sets**
Demirci M.
FUZZY SETS AND SYSTEMS, cilt.110, sa.2, ss.275-278, 2000 (Hakemli Dergi)
- XLI. **Fuzzy functions and their fundamental properties**
Demirci M.
FUZZY SETS AND SYSTEMS, cilt.106, sa.2, ss.239-246, 1999 (Hakemli Dergi)
- XLII. **Genuine sets**
Demirci M.
FUZZY SETS AND SYSTEMS, cilt.105, sa.3, ss.377-384, 1999 (Hakemli Dergi)
- XLIII. **Vague groups**
Demirci M.
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, cilt.230, sa.1, ss.142-156, 1999 (Hakemli Dergi)
- XLIV. **Three topological structures of smooth topological spaces**
Demirci M.
FUZZY SETS AND SYSTEMS, cilt.101, sa.1, ss.185-190, 1999 (Hakemli Dergi)
- XLV. **Neighborhood structures of smooth topological spaces**
Demirci M.
FUZZY SETS AND SYSTEMS, cilt.92, sa.1, ss.123-128, 1997 (Hakemli Dergi)
- XLVI. **On several types of compactness in smooth topological spaces**
Demirci M.
FUZZY SETS AND SYSTEMS, cilt.90, sa.1, ss.83-88, 1997 (Hakemli Dergi)
- XLVII. **ON THE AXIOMATIC THEORY OF FUZZY-SETS**
DEMIRCI M., COKER D.
FUZZY SETS AND SYSTEMS, cilt.60, sa.2, ss.181-198, 1993 (Hakemli Dergi)

Diğer Dergilerde Yayınlanan Makaleler

- I. **On the Convergence Structure of L-topological Spaces and the Continuity in L-topological spaces**
DEMİRCİ M.
New Mathematics and Natural Computation, cilt.3, ss.1-25, 2007 (Hakemli Dergi)
- II. **Generalized Set-Theoretic Operations on Genuine Sets**
DEMİRCİ M.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, cilt.34, ss.1-6, 2005 (Hakemli Dergi)
- III. **Remarks on vague groups**
DEMİRCİ M., Çoker D.
Journal of Fuzzy Mathematics, cilt.10, ss.657-668, 2002 (Hakemli Dergi)
- IV. **On the compactness in fuzzy topological spaces in Sostak's sense**
Ertürk R., DEMİRCİ M.
MATEMATICKI VESNIK, cilt.50, ss.75-81, 1998 (Hakemli Dergi)
- V. **An introduction to intuitionistic fuzzy topological spaces in Sostak's sense**
Çoker D., DEMİRCİ M.
BUSEFAL, cilt.67, ss.67-76, 1996 (Hakemli Dergi)
- VI. **Almost compactness and near compactness in three topological structures of smooth topological spaces**
DEMİRCİ M.
Bulletin of Calcutta Mathematical Society, cilt.88, ss.79-86, 1996 (Hakemli Dergi)
- VII. **On fuzzy inclusion in the intuitionistic sense**
Çoker D., DEMİRCİ M.
Journal of Fuzzy Mathematics, cilt.4, sa.4, ss.701-714, 1996 (Hakemli Dergi)
- VIII. **On intuitionistic fuzzy points**
Çoker D., DEMİRCİ M.
Notes on IFS, cilt.1, sa.1, ss.79-84, 1995 (Hakemli Dergi)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **On Two Approaches to Concrete Dualities and Their Relationships**
DEMİRCİ M.
Topology, Algebra and Categories in Logic 2017 (TACL 2017), Prag, Çek Cumhuriyeti, 26 - 30 Haziran 2017, ss.1-2
- II. **Applications of Fundamental Categorical Duality Theorem to L-fuzzy Sets and Separated M-valued Sets**
DEMİRCİ M.
LINZ2017 - 37th Linz Seminar on Fuzzy Set Theory, Linz, Avusturya, 7 - 10 Şubat 2017, ss.11-14
- III. **Fuzzy Semi-Quantales, (L,M)-Quasi-Fuzzy Topological Spaces and Their Duality**
DEMİRCİ M.
7th International Conference on Fuzzy Computation Theory and Applications (FCTA 2015), Lizbon, Portekiz, 12 - 14 Kasım 2015, ss.105-111
- IV. **Heyting duality as an application of fundamental categorical duality theorem**
DEMİRCİ M.
LOGIC COLLOQUIUM 2015, Helsinki, Finlandiya, 3 - 08 Ağustos 2015, ss.748
- V. **Stone and Priestley Dualities as Applications of Fundamental Categorical Duality Theorem**
DEMİRCİ M.
9th Scandinavian Logic Symposium, Tampere, Finlandiya, 25 - 27 Ağustos 2014, ss.22
- VI. **Topological Duality of Aggregation Operators**
DEMİRCİ M.
International Symposium on Aggregation on Bounded Lattices, Trabzon, Türkiye, 16 - 20 Haziran 2014, ss.3-4

- VII. **Aggregation Operators on Bounded Partially Ordered Sets, Aggregative Spaces and Their Duality**
Demirci M.
15th International Conference on Information Processing and Management of Uncertainty in Knowledge-based Systems (IPMU), Montpellier, Fransa, 15 - 19 Temmuz 2014, cilt.442, ss.457-465
- VIII. **An Extended Fundamental Duality of Partially Ordered Sets and Its Applications**
DEMİRCİ M.
Computability in Europe 2013 (CIE2013), Milan, İtalya, 1 - 05 Temmuz 2013, ss.70-79
- IX. **Applications of Categorical Fixed-basis Fuzzy Topological Spaces to A-valued Spaces**
DEMİRCİ M.
8th Conference of the European-Society-for-Fuzzy-Logic-and-Technology (EUSFLAT), Milan, İtalya, 11 - 13 Eylül 2013, cilt.32, ss.9-16
- X. **A Stone-type adjunction for fixed-basis fuzzy topological spaces in abstract categories and its applications**
DEMİRCİ M.
33rd Linz Seminar on Fuzzy Set Theory, Linz, Avusturya, 14 - 18 Şubat 2012, ss.13-15
- XI. **On augmented posets and (Z_1, Z_2) -complete posets**
DEMİRCİ M.
TACL 2011, the Fifth International Conference on Topology, Algebra and Categories in Logic, Marsilya, Fransa, 26 - 30 Temmuz 2011, ss.115
- XII. **On a Subset System-based Generalization of Topology**
DEMİRCİ M.
24th Summer Conference on Topology and Its Applications, Brno, Çek Cumhuriyeti, 14 - 17 Temmuz 2009, ss.4
- XIII. **An Introduction to (Z_1, Z_2) -complete posets**
DEMİRCİ M.
4th International Conference on Topology, Algebra and Categories in Logic, TACL'09, Amsterdam, Hollanda, 7 - 11 Temmuz 2009, ss.1-2
- XIV. **Subset systems in lattice-valued mathematics**
DEMİRCİ M.
30th Linz Seminar on Fuzzy Set Theory, Linz, Avusturya, 3 - 07 Şubat 2009, ss.21-23
- XV. **Pointed semi-quantales and generalized lattice-valued quasi topological spaces**
DEMİRCİ M.
29th Linz Seminar on Fuzzy Set Theory, Linz, Avusturya, 12 - 16 Şubat 2008, ss.23-24
- XVI. **Spatial semi-quantales and T_0 generalized lattice-valued topological spaces**
DEMİRCİ M.
22nd. Summer Conference on Topology and its Applications, Castello, İspanya, 24 - 27 Temmuz 2007, ss.43
- XVII. **TOPOLOGICAL CHARACTERIZATION OF LINEARLY ORDERED COMPLETE RESIDUATED LATTICES**
DEMİRCİ M.
Tenth Prague Topological Symposium, Prague, Çek Cumhuriyeti, 13 - 19 Ağustos 2006, ss.104-110
- XVIII. **The Vague Sum and Product of a Finite Number of Real Numbers in Vague Arithmetic**
DEMİRCİ M.
Fourth Conference of the European Society for Fuzzy Logic and Technology and 11 Recontres Francophones sur la Logique Floue et ses Applications, EUSFLAT-LFA 2005 Joint Conference, Barselona, İspanya, 7 - 09 Eylül 2005, ss.745-750
- XIX. **Strict Fuzzy Orderings in a Similarity-Based Setting**
Bodenhofer U., DEMİRCİ M.
Fourth Conference of the European Society for Fuzzy Logic and Technology and 11 Recontres Francophones sur la Logique Floue et ses Applications, EUSFLAT-LFA 2005 Joint Conference, Barselona, İspanya, 7 - 09 Eylül 2005, ss.297-302
- XX. **ORDER-THEORETIC AND CATEGORICAL FOUNDATIONS OF AGGREGATION OPERATORS**
DEMİRCİ M.
INTERNATIONAL SUMMER SCHOOL ON AGGREGATION OPERATORS AND THEIR APPLICATIONS, Lugano, İsviçre,

10 - 15 Temmuz 2005, ss.41-45

XXI. Vague ordered fields: towards an axiomatic theory of vague real line

DEMİRÇİ M.

25th Linz Seminar on Fuzzy Set Theory, Linz, Avusturya, 3 - 07 Şubat 2004, ss.37-38

XXII. An Overview to the Theory of Many-Valued Equivalence Relation Based-Fuzzy Functions And Its Applications

DEMİRÇİ M.

The Seventh International Conference On Fuzzy Sets Theory And Its Applications, Liptovsky Jan, Slovakia, 26 - 30 Ocak 2004, ss.41-42

XXIII. On the Convergence Structure of L-topological Spaces and Graded Continuity in L-Topological Spaces, I

DEMİRÇİ M.

International Conference on Applicable General Topology, Ankara, Türkiye, 12 - 18 Ağustos 2001, ss.15

XXIV. On the Convergence Structure of L-topological Spaces and Graded Continuity in L-Topological Spaces, II

DEMİRÇİ M.

International Conference on Applicable General Topology, Ankara, Türkiye, 12 - 18 Ağustos 2001, ss.16

Bilimsel Dergilerdeki Faaliyetler

FUZZY SETS AND SYSTEMS, Yayın Kurul Üyesi, 2007 - Devam Ediyor

Metrikler

Yayın: 79

Atf (WoS): 708

Atf (Scopus): 750

H-İndeks (WoS): 16

H-İndeks (Scopus): 17

Kongre ve Sempozyum Katılımı Faaliyetleri

TOPOLOGY, ALGEBRA AND CATEGORIES IN LOGIC 2015 (TACL 2015), Katılımcı, Ischia , İtalya, 2015

9th International Conference on Intelligent Systems Design and Applications (ISDA'09), Katılımcı, Pisa, İtalya, 2009

Algebraic Groups and Invariant Theory, Katılımcı, Ticino,Ascona, İsviçre, 2009

First International Workshop on ROUGH SETS THEORY (RST09), Katılımcı, Milan, İtalya, 2009

Quantum Structures Brussels-Gdansk'08, Katılımcı, Sopot-Gdansk, Polonya, 2008

The International Category Theory Conference 2008, Katılımcı, Calais, Fransa, 2008

MANYVAL '08, Applications of Topological Dualities to Measure Theory, Katılımcı, Milan, İtalya, 2008