

Prof. Dr. MUSTAFA DEMİRCİ

Kişisel Bilgiler

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Uluslararası Araştırmacı ID'leri

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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. An application of the theory of categorical many-valued partial orders to sets with fuzzy equalities
DEMİRCİ M.
Fuzzy Sets and Systems, cilt.502, 2025 (SCI-Expanded)
- II. A characterization of categorical many-valued partial orderings by categorical topologies and an

- application to comma categories**
DEMİRÇİ M.
Fuzzy Sets and Systems, cilt.469, 2023 (SCI-Expanded)
- III. **Many-valued partial orders in a closed monoidal category**
DEMİRÇİ M.
Fuzzy Sets and Systems, cilt.468, 2023 (SCI-Expanded)
- IV. **Partially ordered fuzzy power set monads on the category of L-sets and their associated categories of topological space objects**
DEMİRÇİ M.
Fuzzy Sets and Systems, cilt.460, ss.1-32, 2023 (SCI-Expanded)
- V. **Many valued topologies on L-sets**
DEMİRÇİ M.
Fuzzy Sets and Systems, cilt.437, ss.97-113, 2022 (SCI-Expanded)
- VI. **Observability in locally vague environments**
DEMİRÇİ M.
INTERNATIONAL JOURNAL OF APPROXIMATE REASONING, cilt.128, ss.20-31, 2021 (SCI-Expanded)
- VII. **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 (SCI-Expanded)
- VIII. **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 (SCI-Expanded)
- IX. **Stratified categorical fixed-basis fuzzy topological spaces and their duality**
DEMİRÇİ M.
FUZZY SETS AND SYSTEMS, cilt.267, ss.1-17, 2015 (SCI-Expanded)
- X. **Fundamental duality of abstract categories and its applications**
Demirci M.
FUZZY SETS AND SYSTEMS, cilt.256, ss.73-94, 2014 (SCI-Expanded)
- XI. **$(Z(1), Z(2))$ -Complete Partially Ordered Sets and Their Representations by Q-Spaces**
Demirci M.
APPLIED CATEGORICAL STRUCTURES, cilt.21, sa.6, ss.703-723, 2013 (SCI-Expanded)
- XII. **Category-theoretic fuzzy topological spaces and their dualities**
Demirci M.
FUZZY SETS AND SYSTEMS, cilt.227, ss.1-24, 2013 (SCI-Expanded)
- XIII. **The order-theoretic duality and relations between partial metrics and local equalities**
Demirci M.
FUZZY SETS AND SYSTEMS, cilt.192, ss.45-57, 2012 (SCI-Expanded)
- XIV. **Pointed semi-quantales and lattice-valued topological spaces**
Demirci M.
FUZZY SETS AND SYSTEMS, cilt.161, sa.9, ss.1224-1241, 2010 (SCI-Expanded)
- XV. **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 (SCI-Expanded)
- XVI. **Textures and C-spaces**
Demirci M.
FUZZY SETS AND SYSTEMS, cilt.158, sa.11, ss.1237-1245, 2007 (SCI-Expanded)
- XVII. **An introduction to vague complemented ordered sets**
Demirci M., Eken Z.

- INFORMATION SCIENCES, cilt.177, sa.1, ss.150-160, 2007 (SCI-Expanded)
- XVIII. The generalized associative law in vague groups and its applications - II**
Demirci M.
INFORMATION SCIENCES, cilt.176, sa.11, ss.1488-1530, 2006 (SCI-Expanded)
- XIX. The generalized associative law in vague groups and its applications - I**
DEMİRCİ M.
INFORMATION SCIENCES, cilt.176, sa.7, ss.900-936, 2006 (SCI-Expanded)
- XX. Aggregation operators on partially ordered sets and their categorical foundations**
Demirci M.
KYBERNETIKA, cilt.42, sa.3, ss.261-277, 2006 (SCI-Expanded)
- XXI. 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 (SCI-Expanded)
- XXII. 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 (SCI-Expanded)
- XXIII. 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 (SCI-Expanded)
- XXIV. 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 (SCI-Expanded)
- XXV. The generalized associative law in smooth groups**
Demirci M.
INFORMATION SCIENCES, cilt.169, sa.3-4, ss.227-244, 2005 (SCI-Expanded)
- XXVI. Fuzzy groups, fuzzy functions and fuzzy equivalence relations**
Demirci M., Recasens J.
FUZZY SETS AND SYSTEMS, cilt.144, sa.3, ss.441-458, 2004 (SCI-Expanded)
- XXVII. 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 (SCI-Expanded)
- XXVIII. 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 (SCI-Expanded)
- XXIX. 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 (SCI-Expanded)
- XXX. 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 (SCI-Expanded)
- XXXI. 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 (SCI-Expanded)
- XXXII. 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 (SCI-Expanded)
- XXXIII. **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 (SCI-Expanded)
- XXXIV. **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 (SCI-Expanded)
- XXXV. **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 (SCI-Expanded)
- XXXVI. **Arithmetic of fuzzy quantities based on vague arithmetic operations**
Demirci M.
FUZZY SETS AND SYSTEMS - IFSA 2003, PROCEEDINGS, cilt.2715, ss.159-166, 2003 (SCI-Expanded)
- XXXVII. **Constructions of fuzzy functions based on fuzzy equalities**
Demirci M.
SOFT COMPUTING, cilt.7, sa.3, ss.199-207, 2003 (SCI-Expanded)
- XXXVIII. **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 (SCI-Expanded)
- XXXIX. **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 (SCI-Expanded)
- XL. **Gradation of being fuzzy function**
Demirci M.
FUZZY SETS AND SYSTEMS, cilt.119, sa.3, ss.383-392, 2001 (SCI-Expanded)
- XLI. **Smooth subgroups and smooth homomorphisms**
Demirci M.
FUZZY SETS AND SYSTEMS, cilt.117, sa.3, ss.439-446, 2001 (SCI-Expanded)
- XLII. **Smooth groups**
Demirci M.
FUZZY SETS AND SYSTEMS, cilt.117, sa.3, ss.431-437, 2001 (SCI-Expanded)
- XLIII. **Fuzzy functions and their applications**
Demirci M.
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, cilt.252, sa.1, ss.495-517, 2000 (SCI-Expanded)
- XLIV. **Some notices on genuine sets**
Demirci M.
FUZZY SETS AND SYSTEMS, cilt.110, sa.2, ss.275-278, 2000 (SCI-Expanded)
- XLV. **Axiomatic theory of intuitionistic fuzzy sets**
Demirci M.
FUZZY SETS AND SYSTEMS, cilt.110, sa.2, ss.253-266, 2000 (SCI-Expanded)
- XLVI. **Fuzzy functions and their fundamental properties**
Demirci M.
FUZZY SETS AND SYSTEMS, cilt.106, sa.2, ss.239-246, 1999 (SCI-Expanded)
- XLVII. **Genuine sets**
Demirci M.
FUZZY SETS AND SYSTEMS, cilt.105, sa.3, ss.377-384, 1999 (SCI-Expanded)

XLVIII. Vague groups

Demirci M.

JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, cilt.230, sa.1, ss.142-156, 1999 (SCI-Expanded)

XLIX. Three topological structures of smooth topological spaces

Demirci M.

FUZZY SETS AND SYSTEMS, cilt.101, sa.1, ss.185-190, 1999 (SCI-Expanded)

L. Neighborhood structures of smooth topological spaces

Demirci M.

FUZZY SETS AND SYSTEMS, cilt.92, sa.1, ss.123-128, 1997 (SCI-Expanded)

LI. On several types of compactness in smooth topological spaces

Demirci M.

FUZZY SETS AND SYSTEMS, cilt.90, sa.1, ss.83-88, 1997 (SCI-Expanded)

LII. ON THE AXIOMATIC THEORY OF FUZZY-SETS

DEMIRCI M., COKER D.

FUZZY SETS AND SYSTEMS, cilt.60, sa.2, ss.181-198, 1993 (SCI-Expanded)

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 (ESCI)
- 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 (ESCI)
- 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 Bilimsel Toplantılarda Yayımlanmış Bildiriler

- 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**
DEMİRCİ 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**
DEMİRCİ M.
The Seventh International Conference On Fuzzy Sets Theory And Its Applications, Liptovsky Jan, Slovakya, 26 - 30 Ocak 2004, ss.41-42
- XXIII. **On the Convergence Structure of L-topological Spaces and Graded Continuity in L-Topological Spaces, I**
DEMİRCİ 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**
DEMİRCİ 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: 84

Atif (WoS): 696

Atif (Scopus): 753

H-İndeks (WoS): 15

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