

# Prof. MÜCAHİDE NESİBE KESİCİOĞLU

## Personal Information

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**Address:** Recep tayyip erdogan universitesi fen edebiyat fakültesi matematik bölümü

## International Researcher IDs

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Yoksis Researcher ID: 153907

## Education Information

Post Doctorate, Carleton University, School of Mathematics and Statistics, Canada 2014 - 2014

Post Doctorate, Department of Mathematics and Descriptive Geometry, Slovakia 2013 - 2013

Doctorate, Karadeniz Technical University, -, Matematik, Turkey 2006 - 2012

Doctorate, Technische Universitaet Chemnitz-Zwickau, Department of Mathematics, Germany 2006 - 2007

Postgraduate, Karadeniz Technical University, -, Matematik, Turkey 2003 - 2006

Undergraduate, Karadeniz Technical University, Fen-Edebiyat Fakültesi, Matematik, Turkey 1999 - 2003

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, T-normlardan Elde Edilen T-kısmen sıra, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Matematik, 2012

Postgraduate, Involütf \* -antiotomorfizm invaryantlı Von-Neumann eş sabiti, Karadeniz Technical University, Fen Bilimleri Enstitüsü, Matematik, 2006

## Research Areas

Mathematics, General Algebraic Systems, Natural Sciences

## Academic Titles / Tasks

Professor, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2021 - Continues

Associate Professor, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2016 - 2021

Assistant Professor, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2012 - 2016

Research Assistant PhD, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2012 - 2012

Research Assistant, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2008 - 2012

Research Assistant, Karadeniz Technical University, -, Matematik, 2005 - 2008

## Courses

Temel Matematik, Undergraduate, 2022 - 2023  
Soyut Cebir-I, Undergraduate, 2022 - 2023, 2018 - 2019  
Modül Teorisi, Undergraduate, 2021 - 2022, 2019 - 2020  
Yarı Grup Teorisi, Doctorate, 2022 - 2023, 2020 - 2021  
Halkalar Teorisi, Postgraduate, 2022 - 2023  
Değişmeli Halkalar ve Modüller, Doctorate, 2021 - 2022, 2019 - 2020  
Kafes Teorisi, Postgraduate, 2022 - 2023, 2020 - 2021, 2019 - 2020, 2018 - 2019  
Soyut Matematik-II, Undergraduate, 2021 - 2022, 2017 - 2018  
Fuzzy Gerektirmeleri, Postgraduate, 2020 - 2021, 2019 - 2020  
Kafes sıralı monoidler, Postgraduate, 2021 - 2022  
Soyut Matematik-I, Undergraduate, 2021 - 2022, 2017 - 2018  
Fuzzy Gerektirmeleri Üretim Yöntemleri, Doctorate, 2020 - 2021  
Sayılar Teorisi, Undergraduate, 2020 - 2021  
Mühendislik Matematiği-II, Undergraduate, 2020 - 2021, 2018 - 2019  
Evrensel cebir, Doctorate, 2021 - 2022  
Kümeler teorisi, Undergraduate, 2021 - 2022  
Matematiğin Temelleri, Undergraduate, 2021 - 2022  
Lineer Cebir-II, Undergraduate, 2019 - 2020  
Elemanter Sayı Kuramı, Undergraduate, 2020 - 2021  
Üçgensel Normlar, Postgraduate, 2020 - 2021, 2018 - 2019  
Lineer Cebir-I, Undergraduate, 2019 - 2020  
Kafes Teorisine Giriş, Undergraduate, 2019 - 2020  
Soyut Cebir-II, Undergraduate, 2018 - 2019  
İleri Cebir, Postgraduate, 2018 - 2019  
Mühendislik Matematiği-I, Undergraduate, 2018 - 2019  
Matematik-II, Undergraduate, 2017 - 2018  
Genel Matematik-II, Undergraduate, 2017 - 2018  
Genel Matematik-I, Undergraduate, 2017 - 2018  
Matematik-I, Undergraduate, 2017 - 2018

## Advising Theses

Kesicioğlu M. N., Sınırlı Kafesler Üzerinde Mantıksal Operatörlerden Elde Edilen Kapanış Operatörleri, Doctorate, E.Kürkçü(Student), 2024  
Kesicioğlu M. N., Uni-nullnormlar üzerinde sıralama, Postgraduate, E.ŞAMLI(Student), 2021  
Kesicioğlu M. N., Rezidual gerektirmelerden ve ordinal toplam gerektirmelerden elde edilen sıralamalar, Postgraduate, F.Çoğalmış(Student), 2020  
Kesicioğlu M. N., Sınırlı Kafesler Üzerinde Gerektirmelerden Elde Edilen Kısmen Sıralama, Postgraduate, B.KARA(Student), 2019

## Jury Memberships

Post Graduate, Post Graduate, Recep Tayyip Erdoğan Üniversitesi, July, 2020  
Post Graduate, Post Graduate, Recep Tayyip Erdoğan Üniversitesi, January, 2020  
Post Graduate, Post Graduate, Recep Tayyip Erdoğan Üniversitesi, July, 2019  
Post Graduate, Post Graduate, Karadeniz Teknik Üniversitesi, June, 2019  
Post Graduate, Post Graduate, Recep Tayyip Erdoğan Üniversitesi, May, 2019  
Post Graduate, Post Graduate, Recep Tayyip Erdoğan Üniversitesi, June, 2018  
Doctorate, Doctorate, Karadeniz Teknik Üniversitesi, January, 2018

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

- I. **Closure operators constructed by logical operations on bounded lattices**  
Kesicioglu M. N., Çakar E.  
FUZZY SETS AND SYSTEMS, vol.484, no.1, pp.1-18, 2024 (SCI-Expanded)
- II. **Congruence Relations and Direct Decomposition of Uninorms on Bounded Lattices**  
Karaçal F., Ertuğrul Ü., Arpacı S., Kesicioğlu M. N.  
INTERNATIONAL JOURNAL OF UNCERTAINTY, FUZZINESS AND KNOWLEGE-BASED SYSTEMS, vol.31, no.6, pp.1033-1059, 2023 (SCI-Expanded)
- III. **The implications obtained by two given implications on bounded lattices**  
Karaçal F., Kesicioğlu M. N., Ertuğrul Ü.  
INTERNATIONAL JOURNAL OF GENERAL SYSTEMS, vol.50, no.3, pp.281-299, 2021 (SCI-Expanded)
- IV. **GENERATING METHODS FOR PRINCIPAL TOPOLOGIES ON BOUNDED LATTICES**  
Karaçal F., Ertuğrul Ü., Kesicioğlu M. N.  
KYBERNETIKA, vol.57, no.4, pp.714-736, 2021 (SCI-Expanded)
- V. **Generalized convex combination of implications on bounded lattices**  
Kesicioğlu M. N., Ertuğrul Ü., Karaçal F.  
IRANIAN JOURNAL OF FUZZY SYSTEMS, vol.17, no.6, pp.75-91, 2020 (SCI-Expanded)
- VI. **Generalized convex combination of triangular norms on bounded lattices**  
Karaçal F., Nesibe Kesicioglu M., Ertuğrul Ü.  
INTERNATIONAL JOURNAL OF GENERAL SYSTEMS, vol.49, no.3, pp.277-301, 2020 (SCI-Expanded)
- VII. **On the relationships between the orders induced by uninorms and nullnorms**  
Kesicioglu M. N.  
FUZZY SETS AND SYSTEMS, vol.378, pp.23-43, 2020 (SCI-Expanded)
- VIII. **Ordering based on uni-nullnorms**  
Kesicioğlu M. N., Samli E.  
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.39, no.1, pp.645-663, 2020 (SCI-Expanded)
- IX. **On orders induced by implications**  
Kesicioglu M. N., Cogalmıs F.  
IRANIAN JOURNAL OF FUZZY SYSTEMS, vol.16, no.6, pp.127-141, 2019 (SCI-Expanded)
- X. **Some new construction methods for t-norms on bounded lattices**  
Ertuğrul Ü., Kesicioglu M. N., Karaçal F.  
INTERNATIONAL JOURNAL OF GENERAL SYSTEMS, vol.48, no.7, pp.775-791, 2019 (SCI-Expanded)
- XI. **AN EXTENSION METHOD FOR T-NORMS ON SUBINTERVALS TO T-NORMS ON BOUNDED LATTICES**  
Karaçal F., Ertuğrul Ü., Kesicioglu M. N.  
KYBERNETIKA, vol.55, no.6, pp.976-993, 2019 (SCI-Expanded)
- XII. **SOME NOTES ON U-PARTIAL ORDER**  
Kesicioglu M. N., Ertuğrul Ü., Karaçal F.  
KYBERNETIKA, vol.55, no.3, pp.518-530, 2019 (SCI-Expanded)
- XIII. **CONSTRUCTION METHODS FOR UNI-NULLNORMS AND NULL-UNINORMS ON BOUNDED LATTICE**  
Ertuğrul Ü., Kesicioglu M. N., Karaçal F.  
KYBERNETIKA, vol.55, no.6, pp.994-1015, 2019 (SCI-Expanded)
- XIV. **CONSTRUCTION METHODS FOR IMPLICATIONS ON BOUNDED LATTICES**  
Kesicioglu M. N.  
KYBERNETIKA, vol.55, no.4, pp.641-667, 2019 (SCI-Expanded)
- XV. **Some notes on the partial orders induced by a uninorm and a nullnorm in a bounded lattice**  
Kesicioglu M. N.  
FUZZY SETS AND SYSTEMS, vol.346, pp.55-71, 2018 (SCI-Expanded)

- XVI. **About the Orders Induced by Implications Satisfying the Law of Importation**  
Kesicioglu M. N.  
INTERNATIONAL JOURNAL OF UNCERTAINTY FUZZINESS AND KNOWLEDGE-BASED SYSTEMS, vol.26, no.4,  
pp.655-677, 2018 (SCI-Expanded)
- XVII. **An equivalence relation based on the U-partial order**  
Kesicioglu M. N., Ertuğrul Ü., Karaçal F.  
INFORMATION SCIENCES, vol.411, pp.39-51, 2017 (SCI-Expanded)
- XVIII. **Representations by octonary quadratic forms with coefficients 1, 2, 3 or 6**  
Alaca A., Kesicioglu M. N.  
INTERNATIONAL JOURNAL OF NUMBER THEORY, vol.13, no.3, pp.735-749, 2017 (SCI-Expanded)
- XIX. **ABOUT THE EQUIVALENCE OF NULLNORMS ON BOUNDED LATTICE**  
Kesicioglu M. N.  
KYBERNETIKA, vol.53, no.5, pp.877-891, 2017 (SCI-Expanded)
- XX. **Ordering based on uninorms**  
Ertuğrul Ü., Kesicioglu M. N., Karaçal F.  
INFORMATION SCIENCES, vol.330, pp.315-327, 2016 (SCI-Expanded)
- XXI. **Representations by octonary quadratic forms with coefficients 1, 3 or 9**  
Alaca A., Kesicioglu M. N.  
INTERNATIONAL JOURNAL OF NUMBER THEORY, vol.11, no.8, pp.2353-2368, 2015 (SCI-Expanded)
- XXII. **Order-equivalent triangular norms**  
Kesicioglu M. N., Karaçal F., Mesiar R.  
FUZZY SETS AND SYSTEMS, vol.268, pp.59-71, 2015 (SCI-Expanded)
- XXIII. **Ordering based on implications**  
Kesicioglu M. N., Mesiar R.  
INFORMATION SCIENCES, vol.276, pp.377-386, 2014 (SCI-Expanded)
- XXIV. **On the property of T-distributivity**  
Kesicioglu M. N.  
FIXED POINT THEORY AND APPLICATIONS, 2013 (SCI-Expanded)
- XXV. **A T-PARTIAL ORDER OBTAINED FROM T-NORMS**  
Karaçal F., Kesicioğlu M. N.  
KYBERNETIKA, vol.47, no.2, pp.300-314, 2011 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Ordering based 2-uninorm on bounded lattice**  
Ertuğrul Ü., Kesicioğlu M. N., Karaçal F.  
New Trends in Mathematical Science, vol.1, no.5, pp.289-295, 2017 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Generalized Closure Operators on Bounded Lattices**  
Kesicioğlu M. N., Kürkçü Çakar E.  
2nd INTERNATIONAL E-CONFERENCE ON MATHEMATICAL AND STATISTICAL SCIENCES: A SELCUK MEETING,  
Konya, Turkey, 5 - 07 June 2023, pp.146
- II. **EQUIVALENCE CLASSES OF IMPLICATIONS ON BOUNDED LATTICES**  
KARAÇAL F., KESİCİOĞLU M. N., ERTUĞRUL Ü.  
4 th International Conference Mathematics "An Istanbul Meeting For World Mathematicians, Turkey, 27 October  
2020
- III. **SOME PROPERTIES OF THE PRE-ORDERS OBTAINED BY SOME TOPOLOGICAL CLOSURE OPERATORS**

KARAÇAL F., ERTUĞRUL Ü., KESİCİOĞLU M. N.

4 th International Conference on Mathematics "An Istanbul Meeting For World Mathematicians", Turkey, 27 October 2020

- IV. **A construction method for t-norms on bounded lattices**  
Karaçal F., Ertuğrul Ü., KESİCİOĞLU M. N.  
International Summer School on Aggregation Operators, Olomouc, Czech Republic, 1 - 04 July 2019, pp.205-211
- V. **On Some Properties of Generalized Convex Combination of Triangular Norms**  
KARAÇAL F., KESİCİOĞLU M. N., ERTUĞRUL Ü.  
10th International Summer School on Aggregation Functions (AGOP), Olomouc, Czech Republic, 1 - 04 July 2019, vol.981, pp.223-231
- VI. **The Topological Spaces Obtained From  $C_{\{star\}}\{U,A\}$**   
KARAÇAL F., ERTUĞRUL Ü., KESİCİOĞLU M. N.  
International Symposium on Aggregation Structures (ISAS2018), Valladolid, Spain, 2 - 05 July 2018, pp.43
- VII. **Some Properties of the Equivalence Relations Induced by the U-partial Orders**  
KESİCİOĞLU M. N., ERTUĞRUL Ü., KARAÇAL F.  
International Symposium on Aggregation Structures (ISAS2018), Valladolid, Spain, 2 - 05 July 2018, pp.49
- VIII. **The Topological Spaces Induced from the Families of the Functions**  
KARAÇAL F., KESİCİOĞLU M. N., ERTUĞRUL Ü.  
International Symposium on Aggregation Structures (ISAS2018), Valladolid, Spain, 2 - 05 July 2018, pp.45
- IX. **The Relationships Between The Orders Induced By Implications and Uninorms**  
KESİCİOĞLU M. N.  
International Conferences on Algebraic Hyperstructures and Applications (AHA), İstanbul, Turkey, 24 - 27 July 2017, pp.42
- X. **A Survey on Order-equivalent Uninorms"**  
KESİCİOĞLU M. N., Ertuğrul Ü., Karaçal F.  
International Conferences on Algebraic Hyperstructures and Applications (AHA), İstanbul, Turkey, 24 - 27 July 2017, pp.43
- XI. **A Relationship Between Orders Obtained by Uninorms and T-norms (T-conorms)**  
Ertuğrul Ü., KESİCİOĞLU M. N., Karaçal F.  
International Conference on Mathematics and Mathematics Education, Şanlıurfa, Turkey, 11 - 13 May 2017, pp.43-44
- XII. **Some Notes on Ordering Based On Uninorms**  
Ertuğrul Ü., KESİCİOĞLU M. N., Karaçal F.  
International Conference on Mathematics and Mathematics Education (ICMME-2017), Şanlıurfa, Turkey, 11 - 13 May 2017, pp.168-169
- XIII. **On Uninorms on Bounded Lattices**  
Ertuğrul Ü., KESİCİOĞLU M. N., Karaçal F.  
International Conference on Mathematics and Mathematics Education, Elazığ, Turkey, 12 - 14 May 2016, pp.72
- XIV. **About equivalence classes of triangular norms**  
KESİCİOĞLU M. N., Karaçal F., Mesiar R.  
International symposium on aggregation on bounded lattices,, Trabzon, Turkey, 16 - 20 June 2014, pp.37
- XV. **The order generated by implications**  
KESİCİOĞLU M. N., Mesiar R.  
12 th international conference on fuzzy set theory and applications,, Liptovsky Jan, Slovakia, 26 - 31 January 2014, pp.66
- XVI. **On the property of T-distributive**  
KESİCİOĞLU M. N.  
International Congress in Honour of Professor H. M. Srivastava, Bursa, Turkey, 23 - 26 August 2012, pp.108
- XVII. **T-action on bounded lattices**  
Karaçal F., KESİCİOĞLU M. N.  
Lattice-Valued Logic and Its Applications, 31 st Linz Seminar on Fuzzy Set Theory, Linz, Austria, 9 - 13 February

2010, pp.102

**XVIII. T-actions of Triangular Norms on Bounded Lattices**

Karaçal F., KESİCİOĞLU M. N.

1 st International Fuzzy Systems Symposium, Ankara, Turkey, 1 - 02 October 2009, pp.1

**XIX. Reel  $W^*$ -Cebirleri İçin Von Neumann Eş Sabiti**

KESİCİOĞLU M. N., Kör T., Kesicioğlu Y.

XIX. Ulusal Matematik Sempozyumu, Kütahya, Turkey, 22 - 25 August 2006, pp.458-472

## Supported Projects

KESİCİOĞLU M. N., Project Supported by Higher Education Institutions, Sınırlı Kafesler Üzerinde Gerektirme Üretme Yöntemleri, 2018 - 2020

KESİCİOĞLU M. N., Project Supported by Higher Education Institutions, Kafesler Üzerinde Gerektirmelerden Elde Edilen Sıralama, 2015 - 2017

KESİCİOĞLU M. N., Project Supported by Higher Education Institutions, Tam Kafesler Üzerinde Fuzzy Gerektirmeleri, 2013 - 2015

## Metrics

Publication: 45

Citation (WoS): 206

Citation (Scopus): 228

H-Index (WoS): 7

H-Index (Scopus): 7

## Congress and Symposium Activities

4 th International Conference Mathematics "An Istanbul Meeting for World Mathematicians, Attendee, İstanbul, Turkey, 2020

International Summer School on Aggregation Operators, Attendee, Olomouc, Czech Republic, 2019

International Symposium on Aggregation Structures (ISAS 2018), Attendee, Valladolid, Spain, 2018

International Conferences on Algebraic Hyperstructures and Applications (AHA), Attendee, İstanbul, Turkey, 2017

International symposium on aggregation on bounded lattices, Attendee, Trabzon, Turkey, 2014

12 th international conference on fuzzy set theory and applications, Attendee, Bratislava, Slovakia, 2014

International Congress in Honour of Professor H. M. Srivastava, Attendee, Bursa, Turkey, 2012

31 st Linz Seminar on Fuzzy Set Theory, Attendee, Linz, Austria, 2010

1 st International Fuzzy Systems Symposium, Attendee, Ankara, Turkey, 2009

XIX. Ulusal Matematik Sempozyumu, Attendee, Kütahya, Turkey, 2006

## Scholarships

Doktora sonrası araştırma bursiyeri, Slovak Teknik Üniversitesi, Slovakya, University, 2013 - 2013

Doktora sonrası araştırmacı, Slovakya Cumhuriyeti Ulusal Burs Programı (SAIA), 5 ay, Official Institutions of Foreign Countries, 2013 - 2013

Tübitak yurtiçi doktora bursiyeri, TÜBİTAK, 2006 - 2012

Erasmus Öğrenci Değişimi, Chemnitz, Almanya, 1 yıl, European Commission, 2006 - 2007

## Awards

KESİCİOĞLU M. N., Doktora sonrası arařtırmacı, 3 ay, Carleton Üniversitesi, Kanada, June 2014

KESİCİOĞLU M. N., Karadeniz Teknik Üniversitesi, Fen-Edebiyat Fakültesi Matematik Bölüm Birinciliđi, Karadeniz Teknik Üniversitesi, July 2003