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Education Information

Doctorate, Karadeniz Technical University, -, Matematik, Turkey 1996 - 2001
Postgraduate, Karadeniz Technical University, -, Matematik, Turkey 1993 - 1996
Undergraduate, Karadeniz Technical University, Fatih Eğitim Fakültesi, Matematik Öğretmenliği, Turkey 1989 - 1993

Foreign Languages

English, B2 Upper Intermediate

Research Areas

Mathematics, Associative Rings and Algebras, Nonassociative Rings and Algebras, Commutative Rings and Algebras, Mathematical Logic and Foundations, Special Functions, Natural Sciences

Academic Titles / Tasks

Professor, Karadeniz Technical University, Fen Fakültesi, Matematik, 2011 - Continues
Assistant Professor, Karadeniz Technical University, Fen Fakültesi, Matematik, 2001 - 2006
Research Assistant, Karadeniz Technical University, Fen Fakültesi, Matematik, 1993 - 2001

Academic and Administrative Experience

Karadeniz Technical University, Fen Edebiyat, Matematik, 2014 - 2016

Courses

Genel Matematik, Undergraduate, 2013 - 2014
Cebir I, Undergraduate, 2013 - 2014

Advising Theses

KARAÇAL F., Sınırlı kafesler üzerinde nullnormlar, Doctorate, M.Akif(Student), 2015

KARAÇAL F., T-Partial Order And Its Properties, Doctorate, E.Aşıcı(Student), 2013

KARAÇAL F., Aggregation Functions, Postgraduate, Ü.Ertuğrul(Student), 2012

KARAÇAL F., A T-partial order obtained from t-norms,, Doctorate, M.Nesibe(Student), 2012

KARAÇAL F., Triangular norms on product lattices,, Postgraduate, E.KALIN(Student), 2009

KARAÇAL F., Negations, Infinitely Supremum Distributive Triangular Norms and Pseudo Complements on Complete Lattices, Postgraduate, M.Akif(Student), 2009

KARAÇAL F., The triangular norms on the unit interval [0, 1], Postgraduate, R.Ayyıldız(Student), 2009

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VI. **A PRINCIPAL TOPOLOGY OBTAINED FROM UNINORMS**
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VII. **Triangular norm decompositions through methods using congruence relations**
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VIII. **The implications obtained by two given implications on bounded lattices**
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KARAÇAL F., ERTUĞRUL Ü., Kesicioglu M. N.

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ERTUĞRUL Ü., Kesicioglu M. N., Karacal F.

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XVI. **SOME NOTES ON U-PARTIAL ORDER**

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

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XVII. **Idempotent nullnorms on bounded lattices**

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XIX. **Construction of uninorms on bounded lattices**

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ÇAYLI G. D., ERTUĞRUL Ü., KÖROĞLU T., KARAÇAL F.

KYBERNETIKA, vol.53, no.5, pp.911-921, 2017 (SCI-Expanded)

XXIII. **Aggregation functions on bounded lattices**

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XXXV. **Internal direct product of integral V-distributive binary aggregation functions and the classification of all integral V-distributive binary aggregation functions of length 3**

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XXXVII. **Uninorms on bounded lattices**

KARAÇAL F., Mesiar R.

FUZZY SETS AND SYSTEMS, vol.261, pp.33-43, 2015 (SCI-Expanded)

XXXVIII. **Uninorms on Bounded Lattices**

KARAÇAL F., MESİAR R.

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XXXIX. **On the T-partial order and properties**

AŞICI E., KARAÇAL F.

INFORMATION SCIENCES, vol.267, pp.323-333, 2014 (SCI-Expanded)

XL. **Some notes on T-partial order**

KARAÇAL F., Aşıcı E.

JOURNAL OF INEQUALITIES AND APPLICATIONS, 2013 (SCI-Expanded)

XLI. **Pairwise comaximal elements and the classification of all V-distributive triangular norms of length 3**

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INFORMATION SCIENCES, vol.204, pp.36-43, 2012 (SCI-Expanded)

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Karacal F.

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I. **Ordering based 2-uninorm on bounded lattice**
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II. **The Prime radical of an element of an algebraic l-groupoid**
KARAÇAL F., Khadjiev D., Çalhalp F.
Marmara University Sciences Journal, vol.16, pp.121-126, 2000 (Peer-Reviewed Journal)

III. **The Frattini element in algebraic and modular lattice**
KARAÇAL F., Khadjiev D.
Fırat Sciences and Engineering Sciences Journal, vol.11, pp.87-90, 1999 (Peer-Reviewed Journal)

Books & Book Chapters

I. **A survey on nullnorms on bounded lattices**
ÇAYLI G. D., KARAÇAL F.
in: Advances in Fuzzy Logic and Technology, Kacprzyk J., Szmidt E., Zadrozny S., Atanassov K., Krawczak M., Editor, Springer International Publishing, Cham, pp.431-442, 2018

II. **Some remarks on idempotent nullnorms on bounded lattices**
ÇAYLI G. D., KARAÇAL F.
in: Aggregation Functions in Theory and in Practice, Torra V., Mesiar R, De Baets B., Editor, Springer International Publishing, Cham, pp.31-39, 2018

III. **Some Remarks on Idempotent Nullnorms on Bounded Lattices**
ÇAYLI G. D., KARAÇAL F.
in: SERIES TITLE: Advances in Intelligent Systems and Computing, BOOK TITLE: Aggregation Functions in Theory and in Practice, Torra Vicenç, Mesiar Radko, De Baets Bernard, Editor, Springer International Publishing, Cham, pp.31-39, 2018

IV. **A Survey on Nullnorms on Bounded Lattices**
ÇAYLI G. D., KARAÇAL F.
in: SERIES TITLE: Advances in Intelligent Systems and Computing, BOOK TITLE: Advances in Fuzzy Logic and Technology 2017, Kacprzyk Janusz, Szmidt Eulalia, Zadrozny Slawomir, Atanassov Krassimir T., Krawczyk Maciej, Editor, Springer International Publishing, Cham, pp.431-442, 2018

Refereed Congress / Symposium Publications in Proceedings

I. **A Construction Method for t-norms on Bounded Lattices**
KARAÇAL F., ERTUĞRUL Ü., Kesicioglu M. N.
10th International Summer School on Aggregation Functions (AGOP), Olomouc, Czech Republic, 1 - 04 July 2019, vol.981, pp.205-211

II. **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

III. **Some Properties of t-closure Operators**

KARAÇAL F., İNCE M. A.

INTERNATIONAL CONFERENCE ON RECENT ADVANCES IN PURE AND APPLIED MATHEMATICS, 23 - 27 July 2018

IV. **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

V. **The Topological Spaces Obtained From C{star}_{U,A}**

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

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VI. **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

VII. **Some results on internal and locally internal uninorms on bounded lattices**

ÇAYLI G. D., KARAÇAL F., MESIAR R.

International Symposium on Aggregation and Structures (ISAS 2018), Valladolid, Spain, 2 - 05 July 2018, pp.23-24

VIII. **A Survey on Nullnorms on Bounded Lattices**

ÇAYLI G. D., KARAÇAL F.

10th Conference of the European-Society-for-Fuzzy-Logic-and-Technology (EUSFLAT) / 16th International Workshop on Intuitionistic Fuzzy Sets and Generalized Nets (IWIFSGN), Warszawa, Poland, 11 - 15 September 2017, vol.641, pp.431-442

IX. **Some Remarks on Idempotent Nullnorms on Bounded Lattices**

ÇAYLI G. D., KARAÇAL F.

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X. **A survey on nullnorms on bounded lattices**

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XI. **A Survey on Order-equivalent Uninorms**

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XIII. **Some notes on locally internal uninorm on bounded lattices**

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XIV. **Some Notes on Ordering Based On Uninorms**

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XV. **On uninorms on bounded lattices**

ÇAYLI G. D., KARAÇAL F.

International Conference on Recent Advances in Pure and Applied Mathematics, ICRAPAM 2017, Aydın, Turkey, 11 - 15 May 2017, pp.69-70

XVI. **A Relationship Between Orders Obtained by Uninorms and T-norms (T-conorms)**
ERTUĞRUL Ü., KESICIOGLU M. N., KARAÇAL F.
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KARAÇAL F., ERTUĞRUL Ü., ÇAYLI G. D.
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An international symposium on aggregation and structures, ISAS2016, Lüksemburg, Luxembourg, 5 - 08 July 2016, pp.15

XXIII. **On Uninorms on Bounded Lattices**
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International Conference on Mathematics and Mathematics Education, Elazığ, Turkey, 12 - 14 May 2016, pp.72

XXIV. **Incomparability with respect to the T-Partial Order on Bounded Lattices**
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XXV. **Üçgensel Normların (Konormların) Modife Edilmiş Ordinal Toplamları**
ERTUĞRUL Ü., KARAÇAL F., Mesiar R.
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XXVI. **Direct Product and Internal Product of Uninorms on Bounded Lattices**
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XXVII. **Characterization of Uninorms on Bounded Lattices**
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Karaçal F., Mesiar R., ÇAYLI G. D.
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XXIX. **Some Notes on T-partial order**
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International Congress in Honour of Professor Hari M.Srivastava, Bursa, Turkey, 23 - 26 August 2012, pp.98

XXX. **Some Properties of K_=< Set**
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Memberships / Tasks in Scientific Organizations

sempozyum, Member, 2017 - 2017

Scientific Refereeing

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Congress and Symposium Activities

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3RD INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS/DIRECT PRODUCT
AND INTERNAL PRODUCT OF UNINORMS ON BOUNDED LATTICES, Attendee, Viyana, Turkey, 2014

Characterization of Uninorms on Bounded Lattices /Aggregation on Bounded Lattices, Attendee, Trabzon, Turkey, 2014

Nullnorms on Bounded lattices, Attendee, Trabzon, Turkey, 2014

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Some notes on T-partial order/ International Congress in Hon- our of Professor H. M. Srivastava, Attendee, Bursa,
Turkey, 2012

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

A note on pseudo-Archimedean and non-cancellative t-norm. EUSFLAT Conf., Attendee, Barselona, Spain, 2005

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Non Academic Experience

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