

Prof. MURAT DİKER

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Hacettepe University, Fen Fakültesi, Matematik, Turkey 1987 - 1991

Postgraduate, Hacettepe University, Fen Fakültesi, Matematik, Turkey 1984 - 1987

Undergraduate, Hacettepe University, Fen Fakültesi, Matematik, Turkey 1979 - 1983

Research Areas

Information Systems, Communication and Control Engineering, Mathematics, General Topology, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Professor, Hacettepe University, Fen Fakültesi, Matematik Bölümü, 2010 - Continues

Academic and Administrative Experience

Hacettepe Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2000 - 2003

Hacettepe Üniversitesi, Eğitim Fakültesi, Ortaöğretim Fen Ve Matematik Alanlar Eğitimi Bölümü, 1997 - 1999

Advising Theses

DİKER M., Topolojik uzaylarda yakınlık, Postgraduate, Ö.ŞEFİK(Student), 2017

DİKER M., Kaba küme teorisi ve dokular, Postgraduate, H.RABİA(Student), 2015

DİKER M., Doku uzaylarının kompaktlaştırmaları, Doctorate, A.ALTAY(Student), 2007

DİKER M., Parakompakt uzaylar, Postgraduate, N.SEZEN(Student), 2007

DİKER M., Düzgün uzaylar, Postgraduate, C.BÜLBÜL(Student), 2004

DİKER M., Topolojik uzaylarda boyut, Postgraduate, G.GÜMÜŞTEKİN(Student), 2004

DİKER M., Topolojik uzayların kompaktlaştırmaları, Postgraduate, C.ÖZÇİRPAN(Student), 2004

DİKER M., Metriklenbilir topolojik uzaylar, Postgraduate, A.ALTAY(Student), 2001

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Fuzzy rough set models over two universes using textures**
DİKER M., Ugur A. A.
FUZZY SETS AND SYSTEMS, vol.442, pp.155-195, 2022 (SCI-Expanded)
- II. **Generalized textural rough sets: Rough set models over two universes**
ALTAY UĞUR A., DİKER M.
INFORMATION SCIENCES, vol.521, pp.398-421, 2020 (SCI-Expanded)
- III. **Textural formal context**
DİKER M., Ugur A., Bayhan S.
INTERNATIONAL JOURNAL OF APPROXIMATE REASONING, vol.114, pp.182-203, 2019 (SCI-Expanded)
- IV. **Discovering approximation spaces and definability**
DİKER M., Ugur A. A.
INTERNATIONAL JOURNAL OF APPROXIMATE REASONING, vol.101, pp.255-275, 2018 (SCI-Expanded)
- V. **Textures and fuzzy unit operations in rough set theory: An approach to fuzzy rough set models**
DİKER M.
FUZZY SETS AND SYSTEMS, vol.336, pp.27-53, 2018 (SCI-Expanded)
- VI. **Textural unit operations in rough set theory**
DİKER M., UGUR A. A., Bayhan S.
INFORMATION SCIENCES, vol.418, pp.153-168, 2017 (SCI-Expanded)
- VII. **TEXTURES AND ROUGH SETS**
DİKER M.
HANDBOOK OF NEURAL COMPUTATION, pp.17-43, 2017 (SCI-Expanded)
- VIII. **A category approach to relation preserving functions in rough set theory**
Diker M.
INTERNATIONAL JOURNAL OF APPROXIMATE REASONING, vol.56, pp.71-86, 2015 (SCI-Expanded)
- IX. **Categories of rough sets and textures**
Diker M.
THEORETICAL COMPUTER SCIENCE, vol.488, pp.46-65, 2013 (SCI-Expanded)
- X. **Definability and textures**
Diker M.
INTERNATIONAL JOURNAL OF APPROXIMATE REASONING, vol.53, no.4, pp.558-572, 2012 (SCI-Expanded)
- XI. **Textures and covering based rough sets**
DİKER M., UGUR A. A.
INFORMATION SCIENCES, vol.184, no.1, pp.44-63, 2012 (SCI-Expanded)
- XII. **Textures and Fuzzy Rough Sets**
Diker M.
FUNDAMENTA INFORMATICAЕ, vol.108, pp.305-336, 2011 (SCI-Expanded)
- XIII. **Textural approach to generalized rough sets based on relations**
Diker M.
INFORMATION SCIENCES, vol.180, no.8, pp.1418-1433, 2010 (SCI-Expanded)
- XIV. **Interior and closure operators on texture spaces-II: Dikranjan-Giuli closure operators and Hutton algebras**
DİKER M., DOST Ş., UGUR A. A.
FUZZY SETS AND SYSTEMS, vol.161, no.7, pp.954-972, 2010 (SCI-Expanded)
- XV. **Interior and closure operators on texture spaces-I: Basic concepts and Cech closure operators**
DİKER M., DOST Ş., UGUR A. A.
FUZZY SETS AND SYSTEMS, vol.161, no.7, pp.935-953, 2010 (SCI-Expanded)
- XVI. **STONE-CECH COMPACTIFICATIONS OF DITOPOLOGICAL TEXTURE SPACES**
UGUR A. A., DİKER M.
QUAESTIONES MATHEMATICAE, vol.32, no.1, pp.15-33, 2009 (SCI-Expanded)
- XVII. **A Wallman-type compactification of texture spaces**
ALTAY A., Diker M.

- FUZZY SETS AND SYSTEMS, vol.157, no.20, pp.2683-2705, 2006 (SCI-Expanded)
- XVIII. **One-point compactifications of ditopological texture spaces**
Diker M.
FUZZY SETS AND SYSTEMS, vol.147, no.2, pp.233-248, 2004 (SCI-Expanded)
- XIX. **Connectedness in ditopological texture spaces**
Diker M.
FUZZY SETS AND SYSTEMS, vol.108, no.2, pp.223-230, 1999 (SCI-Expanded)
- XX. **Paracompactness and full normality in ditopological texture spaces**
BROWN L., Diker M.
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol.227, no.1, pp.144-165, 1998 (SCI-Expanded)
- XXI. **Ditopological texture spaces and intuitionistic sets**
BROWN L., Diker M.
FUZZY SETS AND SYSTEMS, vol.98, no.2, pp.217-224, 1998 (SCI-Expanded)
- XXII. **A bitopological view on weight and cardinality in almost stably locally compact spaces**
BROWN L., Diker M.
PAPERS ON GENERAL TOPOLOGY AND APPLICATIONS, vol.788, pp.40-53, 1996 (SCI-Expanded)

Articles Published in Other Journals

- I. **A NOTE ON DITOPOLOGICAL TEXTURE SPACES**
ALTAY UĞUR A., DİKER M.
TOPOLOGY PROCEEDINGS, vol.33, pp.211-223, 2009 (Scopus)
- II. **An Approach for the Stone Cech Type Compactifications of Plain Texture Spaces.**
ALTAY UĞUR A., DİKER M.
International J. Contemp. Math. Sciences, vol.3, no.7, pp.331-337, 2008 (Peer-Reviewed Journal)
- III. **The counterparts of some cardinal functions in bitopological spaces I**
DİKER M.
Mathematica Bohemica, vol.120, pp.237-245, 1995 (ESCI)
- IV. **The counterparts of some cardinal functions in bitopological spaces II**
DİKER M.
Mathematica Bohemica, vol.120, pp.247-254, 1995 (ESCI)

Books & Book Chapters

- I. **Textures and Rough Sets**
DİKER M.
in: Handbook of Neural Computation, Pijush Samui, Sanjiban Sekhar Roy, Valentina E. Balas, Editor, Elsevier Science, Oxford/Amsterdam, London, pp.17-43, 2017
- II. **Textures and Rough Sets**
DİKER M.
in: Handbook of Neural Computation, Pijush Samui, Sanjiban Sekhar Roy, Valentina E. Balas, Editor, Academic Press, Londrina, pp.17-43, 2017

Refereed Congress / Symposium Publications in Proceedings

- I. **Textural Formal Concepts**
DİKER M., ALTAY UĞUR A., Bayhan S.
The 12th International Conference on Scalable Uncertainty Management (SUM 2018, Milan, Italy, 3 - 05 October

2018

- II. **Discovering Approximation Spaces**
ALTAY UĞUR A., DİKER M.
12. International Scalable and Uncertainty Management, 3 - 05 October 2018
- III. **Textural Neighbourhoods and Definability**
BAYHAN S., DİKER M., ALTAY UĞUR A.
1. International Turkish Word Engineering and Sciences Congress, Antalya, Turkey, 7 - 10 December 2017, pp.287
- IV. **Textural Neighborhoods and Definability**
BAYHAN S., DİKER M., ALTAY UĞUR A.
I. International Turkish Word Engineering and Science Congress (ITWESC-2017), Antalya, Turkey, 7 - 10 December 2017, pp.287
- V. **Textural Unit Operations in Rough Set Theory**
DİKER M., ALTAY UĞUR A., BAYHAN S.
International joint conference on rough sets, 7 - 12 October 2016
- VI. **Textures and Fuzzy Unit Operations in Rough Set Theory**
DİKER M., ALTAY UĞUR A., BAYHAN S.
International Joint Conference on Rough Sets, 7 - 12 October 2016
- VII. **Rough Sets and Textural Neighbourhoods**
DİKER M., UGUR A. A., Bayhan S.
10th International Conference on Rough Sets and Knowledge Technology (RSKT) held as part of the International Joint Conference on Rough Sets (IJCRS), Tianjin, China, 20 - 23 November 2015, vol.9436, pp.202-213
- VIII. **Definability and Textural Rough Set Algebras**
DİKER M.
The 2nd International Workshop on Rough Sets Theory, Zhejiang, China, 19 - 21 October 2010, vol.29, pp.428-439
- IX. **Categories of Diredations and Rough Set Approximation Operators**
Diker M.
7th International Conference on Rough Sets and Current Trends in Computing, Warszawa, Poland, 28 - 30 June 2010, vol.6086, pp.287-296
- X. **A NOTE ON DITOPOLOGICAL TEXTURE SPACES**
UGUR A. A., DİKER M.
22nd Summer Conference on Topology and Its Applications, Castello, Spain, 24 - 27 July 2007, vol.33, pp.211-213
- XI. **A Stone Cech type compactification of texture spaces**
ALTAY UĞUR A., DİKER M.
22nd Summer Conference on Topology and Its Applications July 24-27, 2007 Universidad Jaume I, Castellon, Spain., 24 - 27 July 2007

Supported Projects

- DİKER M., Project Supported by Higher Education Institutions, Örtüsel Yaklaşım Uzaylarının Kategorisi, 2017 - 2018
- DİKER M., Project Supported by Higher Education Institutions, Dokusal Birim Operasyonlar, 2016 - 2016
- DİKER M., Project Supported by Higher Education Institutions, Kaba Küme Teorisinde Belirtisiz Birim Operasyonlar, 2016 - 2016
- DİKER M., ALTAY UĞUR A., BAYHAN S., Project Supported by Higher Education Institutions, Kaba Kümeler ve Dokusal Komşuluklar, 2015 - 2016

Metrics

Publication: 39

Citation (WoS): 311

Citation (Scopus): 283

H-Index (WoS): 10

H-Index (Scopus): 9

Awards

DİKER M., Best Paper Award, International Rough Set Society, October 2015

Non Academic Experience

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