

Prof. ŞENOL DOST

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International Researcher IDs

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Education Information

Doctorate, Hacettepe University, Fen Fakültesi, Matematik Bölümü-Topoloji Anabilim Dalı, Turkey 1998 - 2004

Postgraduate, Hacettepe University, Fen Fakültesi, Matematik Bölümü-Topoloji Anabilim Dalı, Turkey 1995 - 1998

Undergraduate, Hacettepe University, Eğitim Fakültesi, Matematik Öğretmenliği, Turkey 1990 - 1995

Foreign Languages

English, B2 Upper Intermediate

German, B2 Upper Intermediate

Research Areas

Social Sciences and Humanities, Education, Teacher Training, Teacher Training in Science and Math. at Second. Sch. Lev.,
Mathematics, General Topology, Natural Sciences

Academic Titles / Tasks

Professor, Hacettepe University, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 2018 - Continues

Associate Professor, Hacettepe University, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 2012 - 2018

Assistant Professor, Hacettepe University, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 2007 - 2012

Lecturer PhD, Hacettepe University, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 2004 - 2007

Research Assistant, Hacettepe University, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 1995 - 2004

Academic and Administrative Experience

Head of Department, Hacettepe University, Eğitim Fakültesi, Matematik Ve Fen Bilimleri Eğitimi Bölümü, 2020 - 2023

Hacettepe Üniversitesi, Eğitim Fakültesi, Ortaöğretim Fen Ve Matematik Alanlar Eğitimi Bölümü, 2012 - 2013

Courses

MATEMATİK TARİHİ, Undergraduate, 2021 - 2022
DİFERENSİYEL DENKLEMLER, Undergraduate, 2017 - 2018
OLASILIK, Undergraduate, 2017 - 2018, 2016 - 2017
MATEMATİK EĞİTİMİNDE LİTERATÜR İNCELENMESİ, Postgraduate, 2017 - 2018, 2016 - 2017
NÜMERİK ANALİZ, Undergraduate, 2017 - 2018, 2016 - 2017
OKUL DENEYİMİ, Undergraduate, 2017 - 2018
MATEMATİK EĞİTİMİNDE BİLİŞSEL SÜREÇLER, Doctorate, 2017 - 2018
BİLGİSAYAR PROGRAMLAMA II, Undergraduate, 2017 - 2018, 2016 - 2017
ANALİZ II, Undergraduate, 2017 - 2018
BİLGİSAYAR PROGRAMLAMA I, Undergraduate, 2017 - 2018, 2016 - 2017
Doktora Eğitiminde Seminer Çalışmaları, Doctorate, 2016 - 2017
GERÇEL ANALİZ, Undergraduate, 2016 - 2017
MATEMATİK EĞİTİMİNDE SEMİNER ÇALIŞMALARI, Postgraduate, 2016 - 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **An argumentation experience regarding concepts of calculus with ChatGPT**
URHAN S., Gençaslan O., DOST Ş.
Interactive Learning Environments, 2024 (SSCI)
- II. **Analysis of Ninth Grade Mathematics Course Book Activities Based on Model-Eliciting Principles**
URHAN S., DOST Ş.
INTERNATIONAL JOURNAL OF SCIENCE AND MATHEMATICS EDUCATION, vol.16, no.5, pp.985-1002, 2018 (SSCI)
- III. **Precise Sets in Approximation Spaces and Textures**
DOST Ş.
FUNDAMENTA INFORMATICA, vol.158, no.4, pp.353-368, 2018 (SCI-Expanded)
- IV. **Semi-compactness in ditopological texture spaces and soft fuzzy topological spaces**
DOST Ş.
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.32, no.1, pp.925-936, 2017 (SCI-Expanded)
- V. **Ortaöğretim Matematik Öğretmen Adaylarının Matematik Okuryazarlığı Hakkındaki Görüşleri**
ŞEFİK Ö., DOST Ş.
e-Necatibey Eğitim Fakültesi Elektronik Fen ve Matematik Eğitimi Dergisi (elektronik), vol.10, no.2, pp.320-338, 2016 (SCI-Expanded)
- VI. **A Qualitative Research on Example Generation Capabilities of University Students**
Saglam Y., DOST Ş.
INTERNATIONAL JOURNAL OF SCIENCE AND MATHEMATICS EDUCATION, vol.14, no.5, pp.979-996, 2016 (SSCI)
- VII. **A textural view of semi-separation axioms in soft fuzzy topological spaces**
Kule M., DOST Ş.
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.30, no.4, pp.2037-2053, 2016 (SCI-Expanded)
- VIII. **Quotient Structure of Interior-closure Texture Spaces**
Dost S.
FILOMAT, vol.29, no.5, pp.947-962, 2015 (SCI-Expanded)
- IX. **A textural view of soft fuzzy rough sets**
Dost S.
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.28, no.6, pp.2519-2535, 2015 (SCI-Expanded)
- X. **A CATEGORICAL VIEW OF TEXTURAL APPROXIMATION SPACES**
Dost S.
QUAESTIONES MATHEMATICAE, vol.38, no.3, pp.385-402, 2015 (SCI-Expanded)
- XI. **Matematik Öğretmen Adaylarının Eleştirel Düşünme Eğilimleri**
SEZEN YÜKSEL N., SARI UZUN M., DOST Ş.
Hacettepe Üniversitesi Eğitim Fakültesi Dergisi-Hacettepe University Journal Of Education, pp.393-403, 2013 (SSCI)

- XII. **Critical Thinking Tendencies of Prospective Mathematics Teachers**
Yuksel N. S., Uzun M. S., DOST Ş.
HACETTEPE UNIVERSITESI EGITIM FAKULTESI DERGISI-HACETTEPE UNIVERSITY JOURNAL OF EDUCATION,
pp.393-403, 2013 (SSCI)
- XIII. **CRITICAL THINKING TENDENCIES OF PROSPECTIVE MATHEMATICS TEACHERS**
DOST Ş., SARI UZUN M., SEZEN YÜKSEL N.
Hacettepe Universitesi Egitim Fakultesi Dergisi-Hacettepe University Journal Of Education, vol.1, pp.393-403, 2013
(SSCI)
- XIV. **USE OF COMPUTER ALGEBRA SYSTEMS IN MATHEMATICS TEACHING AT UNIVERSITY: A TEACHING
EXPERIMENT**
DOST Ş., SAGLAM Y., UGUR A. A.
HACETTEPE UNIVERSITESI EGITIM FAKULTESI DERGISI-HACETTEPE UNIVERSITY JOURNAL OF EDUCATION,
no.40, pp.140-151, 2011 (SSCI)
- XV. **Üniversitede matematik öğretiminde bilgisayar cebiri sistemlerinin kullanımı Bir öğretim deneyi**
DOST Ş., SAGLAM Y., ALTAY UĞUR A.
Hacettepe Universitesi Egitim Fakultesi Dergisi-Hacettepe University Journal Of Education, vol.40, pp.140-151, 2011
(SSCI)
- XVI. **beta-OPEN AND beta-CLOSED SETS IN DITOPOLOGICAL TEXTURE SPACES**
DOST Ş., Brown L. M., ERTÜRK R.
FILOMAT, vol.24, no.2, pp.11-26, 2010 (SCI-Expanded)
- XVII. **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)
- XVIII. **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)
- XIX. **Observations on quasi-uniform products**
Dost S., KUNZI H. A.
TOPOLOGY AND ITS APPLICATIONS, vol.154, no.6, pp.1157-1169, 2007 (SCI-Expanded)
- XX. **Ditopological texture spaces and fuzzy topology - III: Separation axioms**
BROWN L., Erturk R., Dost S.
FUZZY SETS AND SYSTEMS, vol.157, no.14, pp.1886-1912, 2006 (SCI-Expanded)
- XXI. **Intuitionistic Textures Revisited**
DOST Ş., BROWN L.
Hacettepe Journal Of Mathematics And Statistics, vol.34, pp.115-130, 2005 (SCI-Expanded)
- XXII. **Ditopological texture spaces and fuzzy topology, II. Topological considerations**
BROWN L., Erturk R., Dost E.
FUZZY SETS AND SYSTEMS, vol.147, no.2, pp.201-231, 2004 (SCI-Expanded)
- XXIII. **Ditopological texture spaces and fuzzy topology, I. Basic concepts**
BROWN L., Erturk R., Dost E.
FUZZY SETS AND SYSTEMS, vol.147, no.2, pp.171-199, 2004 (SCI-Expanded)

Articles Published in Other Journals

- I. **Concept Images of University Students for Geometric Representation of the Double Integral Concept**
ÖZBEY M., Dost S.
Necatibey Eğitim Fakültesi Elektronik Fen ve Matematik Eğitimi Dergisi, vol.17, no.1, pp.66-98, 2023 (Peer-
Reviewed Journal)
- II. **Weak Structures on Texture Spaces and Weak Semiopen Sets**

- DOST Ş.
Boletim da Sociedade Paranaense de Matematica, vol.41, 2023 (ESCI)
- III. **Weak preopen sets and weak bicontinuity in texture spaces**
DOST Ş.
MATHEMATICA MOROVICA, vol.26, no.2, pp.63-71, 2022 (Peer-Reviewed Journal)
- IV. **A Design Study To Develop The Proof Skills Of Mathematics Pre-Service Teachers**
ER S., DOST Ş.
Necatibey Eğitim Fakültesi Elektronik Fen ve Matematik Eğitimi Dergisi, vol.16, no.1, pp.189-226, 2022 (Peer-Reviewed Journal)
- V. **NEARNESS STRUCTURE ON TEXTURE SPACES**
DOST Ş.
MATEMATICKI VESNIK, vol.74, no.1, pp.26-34, 2022 (ESCI)
- VI. **Serial relation and textural rough set**
DOST Ş.
Mathematica Moravica, vol.25, no.2, pp.69-79, 2021 (Peer-Reviewed Journal)
- VII. **beta-SELECTION PROPERTIES IN DITOPOLOGICAL TEXTURE SPACES**
KULE M., DOST Ş.
SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.38, no.2, pp.1019-1029, 2020 (ESCI)
- VIII. **EXAMINING THE EXAMPLE GENERATION ABILITIES OF HIGH SCHOOL STUDENTS WITHIN THE CONTEXT OF MATHEMATICS COURSE**
DOST Ş., YÜCE M.
INTERNATIONAL ONLINE JOURNAL OF EDUCATION AND TEACHING, vol.6, no.2, pp.260-279, 2019 (Peer-Reviewed Journal)
- IX. **TEXTURE SPACES WITH IDEAL**
KULE M., DOST Ş.
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.68, no.2, pp.1596-1610, 2019 (ESCI)
- X. **Metric spaces and textures**
DOST Ş.
APPLIED GENERAL TOPOLOGY, vol.18, no.1, pp.203-217, 2017 (ESCI)
- XI. **Matematiksel modelleme etkinliklerinin derslerde kullanımı: Öğretmen görüşleri**
URHAN S., DOST Ş.
Elektronik Sosyal Bilimler Dergisi, vol.15, pp.1279-1295, 2016 (Peer-Reviewed Journal)
- XII. **Secondary Preservice Mathematics Teachers Views On Mathematical Literacy**
ŞEFİK Ö., DOST Ş.
Necatibey Eğitim Fakültesi Elektronik Fen ve Matematik Eğitimi Dergisi (elektronik), vol.10, pp.320-338, 2016 (Peer-Reviewed Journal)
- XIII. **Ditopological texture spaces and semi regularityaxioms**
KULE M., DOST Ş.
Annals of Fuzzy Mathematics and Informatics, vol.12, pp.47-62, 2016 (Peer-Reviewed Journal)
- XIV. **C set and a decomposition of bicontinuousdifunctions**
DOST Ş.
Annals of Fuzzy Mathematics and Informatics, vol.8, pp.365-371, 2014 (Peer-Reviewed Journal)
- XV. **Semi open and semi closed sets in ditopological texture space**
DOST Ş.
J. Adv. Math. Studies, vol.5, pp.97-110, 2012 (Peer-Reviewed Journal)
- XVI. **Some decompositions of bicontinuous difunction**
DOST Ş.
Journal of Advanced Studies in topology, vol.2, pp.1-8, 2011 (Peer-Reviewed Journal)
- XVII. **alpha open sets and alpha bicontinuity in ditopological texture space**

DOST Ş.

The Journal of Nonlinear Sciences and Applications, vol.2, pp.12-20, 2010 (Peer-Reviewed Journal)

XVIII. **Generalization some fuzzy separation axioms to ditopological Texture Spaces**

ERTÜRK R., ÖZÇAĞ S., DOST Ş.

The Journal of Nonlinear Sciences and Applications, vol.2, pp.234-242, 2009 (Peer-Reviewed Journal)

XIX. **The categories of textures and topological spaces**

DOST Ş.

Int. J. Contemp. Math. Sciences, vol.4, pp.1273-1287, 2009 (Peer-Reviewed Journal)

Books & Book Chapters

I. **ÖABT-MATEMATİK- I. KİTAP**

DOST Ş.

Beyaz Kalem Yayınevi, Ankara, 2014

II. **ÖABT-MATEMATİK**

DOST Ş.

Nobel Yayın Dağıtım, Ankara, 2013

III. **Maple Yaklaşımıyla Matematik Uygulamaları**

DOST Ş.

Hacettepe Üniversitesi, Ankara, 2010

Refereed Congress / Symposium Publications in Proceedings

I. **INVESTIGATION OF HIGH SCHOOL STUDENTS GENERATING EXAMPLE TYPES**

KULE M., İNAN B., SEZEN YÜKSEL N., YÜCE M., DOST Ş.

7th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2018), 28 - 31 August 2018

II. **Analysis of Mental Structures of Students According to Two-Variable Functions' Geometrical Representations**

ŞEFİK Ö., DOST Ş.

7th INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS, Kiev, Ukraine, 28 August 2018, pp.232-233

III. **Texture spaces with ideal**

Kule M., DOST Ş.

7th INTERNATIONAL EURASIAN CONFERENCE ON MATHEMATICAL SCIENCES AND APPLICATIONS, Kiev, Ukraine, 28 August 2018, pp.281

IV. **Nearness in texture spaces**

DOST Ş.

7st International Eurasian Conference on Mathematical Sciences and Applications, 28 - 31 August 2018

V. **The Analysis of Pre-service Math Teachers' Level of Understanding the Derivative Concept within the Context of APOS Theory**

URHAN S., DOST Ş.

ERPA International Congress on Education, İstanbul, Turkey, 28 June - 01 July 2018, vol.48

VI. **Approximation and texture spaces**

DOST Ş.

International Journal of Arts and Sciences, 29 November - 02 December 2016

VII. **Determining The Relationship Between Motivation And Learning Strategies Of Preservice Teachers: Mathematics Course**

ŞEFİK Ö., DOST Ş.

International Journal of Arts& Sciences (IJAS)---Int. Conference for Academic Disciplines, Freiburg, Germany, 29 November 2016

- VIII. **The potential power of group work on mathematical modeling activities**
ÖZBEY M., SAĞLAM Y., DOST Ş.
17 th ISERD International Conference, New-York, United States Of America, 17 - 19 November 2015
- IX. **On textural Approximation spaces**
DOST Ş.
Workshop on Appl. İn Mathematics and Computer science (ATMC 2015), 7 - 08 September 2015
- X. **Textures and Approximation spaces**
DOST Ş.
4st International Eurasian Conference on Mathematical Sciences and Applications (IECMSA), 31 August - 03 September 2015
- XI. **The Analysis of the Mathematical Modelling Activities in 9 Grade Mathematics Coursbook**
URHAN S., DOST Ş.
4st International Eurasian Conference on Mathematical Sciences and Applications (IECMSA), 31 August - 03 September 2015
- XII. **Matematik Öğretmenlerinin Matematiksel Modelleme Hakkındaki Görüşleri**
URHAN S., DOST Ş.
Uluslararası Öğretmen Yetiştirme Politikaları ve Sorunları Sempozyumu V, 30 April 2015 - 02 May 2014
- XIII. **Matematik Öğretmen Adaylarının Matematik Okuryazarlığı Hakkındaki Görüşleri**
ŞEFİK Ö., DOST Ş.
Uluslararası Öğretmen Yetiştirme Politikaları ve Sorunları Sempozyumu V, 30 April - 02 May 2015
- XIV. **Semi regularity axioms in ditopological texture spaces**
DOST Ş., KULE M.
3st International Eurasian Conference on Mathematical Sciences and Applications (IECMSA), 25 - 28 August 2014
- XV. **Dimetric texture spaces and their categories**
DOST Ş.
3st International Eurasian Conference on Mathematical Sciences and Applications (IECMSA), 25 - 27 August 2014
- XVI. **Matematik Öğretmen Adaylarının Yansıtıcı ve Eleştirel Düşünme Eğilimleri Arasındaki İlişki**
SARI UZUN M., SEZEN YÜKSEL N., DOST Ş.
1st Eurasian Educational Research Congress, 24 - 26 April 2014
- XVII. **Preservice science and mathematics teachers' beliefs about mathematical problem solving**
Saglam Y., DOST Ş.
5th World Conference on Educational Sciences (WCES), Rome, Italy, 5 - 08 February 2013, vol.116, pp.303-306
- XVIII. **Investigation of Pre service Teachers Mathematics Teaching Efficacy Beliefs in Terms of their Reflective Thinking Tendencies**
SARI UZUN M., SEZEN YÜKSEL N., DOST Ş.
International Conference on New Horizons in Education, 25 - 27 June 2013
- XIX. **Öğretmen adaylarının matematik öğretimi öz yeterliklerinin yansıtıcı düşünme düzeylerine göre incelenemesi**
SARI UZUN M., SEZEN YÜKSEL N., DOST Ş.
İnt. Conf. on New Horizons in Education, 25 - 27 June 2013
- XX. **Semi compactness in ditopological texture spaces**
DOST Ş.
1st International Eurasian Conference on Mathematical Sciences and Applications (IECMSA), Prishtina, KOSOVO., 3 - 07 September 2012
- XXI. **A qualitative research on university students example generating capabilities 5 7 June 2012**
SAGLAM Y., DOST Ş.
The International conference of new horizons in education, Prag., 5 - 07 July 2012
- XXII. **Effects of preservice teachers' learning styles and field of study on computer-assisted instruction**
DOST Ş., Saglam Y.

4th World Conference on Educational Sciences (WCES), Barcelona, Spain, 2 - 05 February 2012, vol.46, pp.3812-3816

- XXIII. **Bilgisayar Cebiri Sistemlerinin Matematik Öğretimi ve Öğrenimi ile Bütünleştirilmesine Yönelik Bir Çalışma**
DOST Ş., SAĞLAM Y., ALTAY UĞUR A.
Uluslararası Öğretmen Yetiştirme Politikaları ve Sorunları Sempozyumu II, 16 - 18 May 2010
- XXIV. **Balanced Bitopological Sapaces International Conference on Topology and its Applications Hacettepe University**
DOST Ş., BROWN L.
International Conference on Topology and its Applications, Hacettepe University, Ankara, 13 - 16 July 2009
- XXV. **Uniformities in a fuzzy and textural context**
ÖZÇAĞ S., DOST Ş.
Mathematical Conference: 85 Years of Professor Blagoj Popov Life, Ss. Cyril and Methodius University, Macedonia (Ohrid), 1 - 04 September 2008
- XXVI. **On generalized separation axioms in texture spaces**
BROWN L., ERTÜRK R., ÖZÇAĞ S., DOST Ş.
Mathematical Conference: 85 Years of Professor Blagoj Popov Life, Ss. Cyril and Methodius University, Macedonia (Ohrid), 1 - 04 September 2008
- XXVII. **open and closed sets in ditopological setting**
BROWN L., DOST Ş.
Mathematical Conference: 85 Years of Professor Blagoj Popov Life', Ss. Cyril and Methodius University, Macedonia (Ohrid), 1 - 04 September 2008
- XXVIII. **The Category of Di uniform Texture Spaces**
DOST Ş.
22th 'Summer Conference on Topology and its Applications, Universidad Jaume I Castellon, Spain, 16 - 19 July 2007
- XXIX. **A categorical view of di uniform texture spaces**
ÖZÇAĞ S., DOST Ş.
International Conference on Topology and its Applications, Aegion, Greece, 19 - 22 June 2006
- XXX. **Hutton Cebirleri ve Dokuların Kategorileri**
DOST Ş., BROWN L.
17. Ulusal Matematik Sempozyumu, Turkey, 24 August 2004 - 26 August 2001
- XXXI. **Products and Coproduct in Categories of Textures**
DOST Ş., BROWN L.
19th 'Summer' Conference on Topology and its Applications, University of Cape Town, South Africa, 19 - 22 July 2004
- XXXII. **Textural Categories a Preliminary Report**
DOST Ş., BROWN L.
International Conference on Applicable general Topology, 20 - 23 August 2001

Supported Projects

Sezen Yüksel N., Dost Ş., TUBITAK Project, ÜSTÜN YETENEKLİ ÖĞRENCİLER İÇİN MATEMATİK ÖĞRETMENLERİNE YÖNELİK TEKNOLOJİ ODAKLI ETKİNLİK HAZIRLAMA EĞİTİMİ, 2020 - 2020

Dost Ş., TUBITAK Project, Doku Uzaylar Teorisinde Yakınlık Kavramı, 2017 - 2020

DOST Ş., ŞEFİK Ö., Project Supported by Higher Education Institutions, ÜSTBİLİŞ VE HESAPLAMALI DÜŞÜNMENİN MATEMATİKSEL DÜŞÜNMEYE ETKİSİ, 2018 - 2019

DOST Ş., TUBITAK Project, İkinci Altmoduller için Zariski Benzeri Topolojiler, 2015 - 2018

DOST Ş., ŞEFİK Ö., Project Supported by Higher Education Institutions, Öğretmen Adaylarının Öğrenme Stratejileri ve Güdülenmeleri Arasındaki İlişkinin Belirlenmesi: Matematik Dersi, 2016 - 2017

DOST Ş., Project Supported by Higher Education Institutions, Kesinlik: Tanımlanabilirlik kavramına dokusal yaklaşım, 2016 - 2017

DOST Ş., Project Supported by Higher Education Institutions, Dokusal Yaklaşım Uzaylarına Kategoriyel Bakış, 2016 - 2016

DOST Ş., Project Supported by Higher Education Institutions, Ditopolojik doku uzaylar ve fuzzy topoloji, I: Temel kavramlar, 2016 - 2016

DOST Ş., Project Supported by Higher Education Institutions, Matematik Öğretmen Adaylarının Eleştirel Düşünme Eğilimleri, 2015 - 2015

Metrics

Publication: 80

Citation (WoS): 231

Citation (Scopus): 189

H-Index (WoS): 6

H-Index (Scopus): 5

Non Academic Experience

Hacettepe Üniversitesi

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