Asst. Prof. DİDEM ABİDİN

Personal Information

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International Researcher IDs
ScholarID: 9lkEULIAAAAJ
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Publons / Web Of Science ResearcherID: LXA-5405-2024
ScopusID: 54400874600
Yoksis Researcher ID: 162127

Education

Doctorate, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Turkey 2006 - 2013
Postgraduate, Ege University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği, Turkey 2001 - 2005
Undergraduate, Marmara University, Faculty Of Engineering, Computer Engineering, Turkey 1996 - 2000

Foreign Languages

English

Dissertations

Doctorate, Curriculum plan optimization with rule based genetic algorithms, Dokuz Eylul University, Fen Bilimleri Enstitüsü, 2013
Postgraduate, Extreme programlama ile nesneye yönelik yazılım geliştirme, Ege University, 2005

Research Areas

Avesis Research Areas: Engineering and Technology
WoS Research Areas: Engineering Computing & Technology (Eng)
Scopus Research Areas: Computer Science Applications, Computer Science (miscellaneous)

Academic Positions

Assistant Professor, Manisa Celal Bayar University, MÜHENDİSLİK VE DOĞA BİLİMLERİ FAKÜLTESİ, BİLGİSAYAR MÜHENDİSLİĞİ, 2015 - Present
Lecturer PhD, Ege University, 2001 - 2015

Courses

Undergraduate

Software Engineering, Undergraduate, 2022-2023

Data Structures, Undergraduate, 2022-2023

Programming Languages, Undergraduate, 2014-2015

Introduction to Programming, Undergraduate, 2014-2015

Associate Degree

Veritabanı, Associate Degree, 2014-2015

Programlama Temelleri, Associate Degree, 2014-2015

Articles

I. **TuFoC: regional classification of Turkish folk music recordings using deep learning on Mel spectrograms**
ABİDİN D.
PeerJ Computer Science, vol.11, 2025 (SCI-Expanded, Scopus)

II. **SCM-DL: Split-Combine-Merge Deep Learning Model Integrated with Feature Selection in Sports for Talent Identification**
ABİDİN D., ERDEM M. G.
IEEE Access, vol.13, pp.71148-71172, 2025 (SCI-Expanded, Scopus)

III. **DDSS: denge decision support system to recommend the athlete-specific workouts on balance data**
ABİDİN D., ERDEM M. G.
Neural Computing and Applications, vol.34, no.16, pp.13969-13986, 2022 (SCI-Expanded, Scopus)

IV. **The Effect of Derived Features on Art Genre Classification with Machine Learning**
ABİDİN D.
Sakarya University Journal of Science, vol.25, no.6, pp.1275-1286, 2021 (Scopus, TRDizin)

V. **A case study on player selection and team formation in football with machine learning**
ABİDİN D.
Turkish Journal of Electrical Engineering and Computer Sciences, vol.29, no.3, pp.1672-1691, 2021 (SCI-Expanded, Scopus, TRDizin)

VI. **USING CLASSIFICATION ALGORITHMS FOR TURKISH MUSIC MAKAM RECOGNITION**
Ozturk O., ABİDİN D., ÖZACAR T.
Selçuk Üniversitesi Mühendislik Bilim ve Teknoloji Dergisi, vol.6, no.3, pp.377-393, 2018 (TRDizin)

VII. **TSMONT ontolojisi: Türk Sanat Müziği makamlarının anlamsal olarak modellenmesi**
ÖZTÜRK Ö., ABİDİN D., ÖZACAR ÖZTÜRK T.
Dicle Üniversitesi Mühendislik Fakültesi Mühendislik Dergisi, vol.9, no.1, pp.109-120, 2018 (TRDizin)

VIII. **Using data mining for makam recognition in Turkish traditional art music Klasik Törk möziğinde makam tanima için veri madenciliği kullanimi**
Abidin D., Öztürk Ö., Özacar T.
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.32, no.4, pp.1221-1232, 2017 (SCI-Expanded, Scopus, TRDizin)

IX. **GENETIC ALGORITHM AND DIFFERENTIAL EVOLUTION ALGORITHM COMPARED ON A NOVEL APPLICATION DOMAIN**
ABİDİN D.
Trakya University Journal of Engineering Sciences, vol.17, no.2, pp.45-56, 2016 (Peer-Reviewed Journal)

X. **Analysis of a rule-based curriculum plan optimization system with Spearman rank correlation**
ABİDİN D., Cakir H. S.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.22, no.1, pp.176-190, 2014 (SCI-Expanded, Scopus, TRDizin)

Books

I. **Veri Arttırma Stratejilerine Sistematik Bakış**
ABİDİN D.
in: Bilgisayar Bilimleri ve Mühendisliği: Teori, Metodoloji ve Uygulama, ŞENTÜRK ARAFAT, Editor, Platanus Publishing, Ankara, pp.36-64, 2025

II. **DELPHI Programlama Giriş**
KAYA A., ÇAKIR H. Ş., ABİDİN D.
Dokuz Eylül Üniversitesi Yayınevi, İzmir, 2005

III. **C Programlama**
KAYA A., KURT S., ABİDİN D.
Dokuz Eylül Yayınları, İzmir, 2005

IV. **Bilgisayara Giriş**
KAYA A., ABİDİN D.
Ege Üniversitesi Yayınevi, İzmir, 2002

Papers Presented at Peer-Reviewed Scientific Conferences

I. **KORAL: Türk Müziği için Makam Tabanli Öneri Motoru Tasarimi**
ÖZTÜRK Ö., Özacar T., ABİDİN D.
2018 International Conference on Artificial Intelligence and Data Processing, IDAP 2018, Malatya, Turkey, 28 - 30 September 2018, (Full Text)

II. **A Hybrid Genetic - Differential Evolution Algorithm (HybGADE) for a Constrained Sequencing Problem**
ABİDİN D.
2018 International Conference on Artificial Intelligence and Data Processing, IDAP 2018, Malatya, Turkey, 28 - 30 September 2018, (Full Text)

III. **Effects of image filters on various image datasets**
ABİDİN D.
5th International Conference on Computer and Technology Applications, ICCTA 2019, İstanbul, Turkey, 16 - 17 April 2019, vol.Part F148262, pp.1-5, (Full Text)

IV. **Movie Rating Prediction with Machine Learning Algorithms on IMDB Data Set**
ABİDİN D., Bostancı C., SİTE A.
International Conference on Advanced Technologies, Computer Engineering and Science (ICATCES'18), Safranbolu, Turkey, 11 May 2018, (Full Text)

V. **The behavior of Evolutionary Algorithms in Combinatorial Optimization**
ABİDİN D.
29th Conference of the European Chapter on Combinatorial Optimization, Budapest, Hungary, 26 - 28 May 2016, (Summary Text)

VI. **Finding the Optimum Sequence for the Contents of a Database Course with Rule Based Genetic Algorithms**
ABİDİN D.
26TH EUROPEAN CONFERENCE ON OPERATIONAL RESEARCH, Roma, Italy, 1 - 04 July 2013, (Summary Text)

VII. **Sequencing on Tightly Dependent Dataset with Genetic Algorithms**
ABİDİN D.
6th WSEAS European Computing Conference (ECC '12), Prag, Czech Republic, 24 - 26 September 2012, (Full Text)

VIII. **Rule-based Genetic Algorithm for In-Service Training Curriculum Plan**
ABİDİN D., ÇAKIR H. Ş.
International Conference on Computers, Digital Communications and Computing (ICDCC'11), Barselona, Spain, 15 - 17 September 2011, (Full Text)

IX. **Bilgisayar Bilimlerinde Yazılım Tasarım Desenleri ve Önemi**
KAYA A., ABİDİN D., TOKER L., DÖNMEZ O.
3. Ulusal Meslek Yüksekokulları Sempozyumu, Turkey, 28 - 30 September 2005, pp.321-325, (Full Text)

X. **Leonardo Da Vinci Mesleki Eğitim Programının Meslek Yüksekokullarının Gelişimindeki Önemi ve Norveç Örneği**
ABİDİN D., KAYA A., TOKER L.
3. Ulusal Meslek Yüksekokulları Sempozyumu, Turkey, 28 - 30 September 2005, pp.84-87, (Full Text)

XI. **Bilgisayar Kullanıcılarının Sağlık Problemleri Üzerine Bir Araştırma**
KAYA A., ABİDİN D., ÇAKIR H. Ş.
Uludağ Üniversitesi Ergonomi Kongresi, Turkey, 7 - 09 October 2004, pp.648-653, (Full Text)

XII. **Statistical System Modelling**
KAYA A., ABİDİN D., DÖNMEZ O.
4th International Symposium On Intelligent Manufacturing Systems, 6 - 08 September 2004, pp.487-491, (Full Text)

XIII. **Datamining and Computational Intelligence Applications**
ABİDİN D., KAYA A.
International Symposium on Intelligent Manufacturing Systems (IMS'xx2004), 6 - 08 September 2004, pp.475-479, (Full Text)

XIV. **Comparison and Collaboration of Rational Unified Process (RUP) and Exreme Programming (XP)**
ABİDİN D., KAYA A.
Integrated Design and Process Technology (IDPT), 15 - 17 June 2004, vol.1, (Full Text)

XV. **eXtreme Programming with Open Source Tools**
ABİDİN D., KAYA A.
3rd Asia Pacific International Symposium on Information Technology İstanbul, Turkey, 13 - 14 January 2004, pp.392-395, (Full Text)

XVI. **Meslek Yüksekokulları Öğrenci Profilleri Üzerine Bir Anket Çalışması**
KAYA A., ABİDİN D.
II. Ulusal Meslek Yüksekokulları Sempozyumu, Turkey, 15 - 17 October 2003, pp.1-6, (Full Text)

XVII. **Çoklu Protokol Etiket Anahtarlama (MPLS) Tekniklerinin Güncel Ağ Teknolojilerine Uygulanması Üzerine Bir Araştırma**
ABİDİN D., KAYA A.
II. Ululsa Meslek Yüksekokulları Sempozyumu, Turkey, 15 - 17 October 2003, pp.1-5, (Full Text)

XVIII. **Türkiye'de Atak (Agile) Programlama Tekniklerinin Uygulanması ve Geliştirilmesi**
ABİDİN D., KAYA A.
II. Ulusal Meslek Yüksekokulları Sempozyumu, Turkey, 15 - 17 October 2003, pp.1-5, (Full Text)

XIX. **Subband Adaptive Filters**
KAYA A., DÖNMEZ O., ABİDİN D.
International Journal of Computational Intelligence, 24 - 26 September 2003, vol.1, pp.317-320, (Full Text)

XX. **The Application Areas of Parallel Fast Fourier Transform and Future Trends**
KAYA A., ABİDİN D., DÖNMEZ O.
International Journal of Computational Intelligence, 24 - 26 September 2003, vol.1, pp.232-237, (Full Text)

Funded Projects

ABİDİN D., ÇİPİLOĞLU YILDIZ Z., EMEK S., Project Supported by Higher Education Institutions, Sanal ve Artırılmış Gerçeklik Uygulamaları İçin Bir Kullanıcı Deneyimi Kalitesi Çerçevesi Oluşturulması, 2022 - 2023
ABİDİN D., BALCI B., ÖZACAR ÖZTÜRK T., Project Supported by Higher Education Institutions, Yaygın Yazılım Geliştirme Hatalarının Tespiti, Analizi ve Çözümlerine Dayalı Bir Metodoloji Önerilmesi, 2020 - 2022
ABİDİN D., ÖZTÜRK Ö., ÖZACAR ÖZTÜRK T., Project Supported by Higher Education Institutions, Türk Müziği İçin Makam Tabanlı Öneri Motoru Tasarımı ve Gerçekleştirimi, 2018 - 2019

Metrics

Publication: 36
Citation (WoS): 12
Citation (Scopus): 45
H-Index (WoS): 2
H-Index (Scopus): 5

Non Academic Experience

Protel Bilgisayar, Yazılım Geliştirme Uzmanı