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International Researcher IDs

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Publons / Web Of Science ResearcherID: N-6239-2014

Yoksis Researcher ID: 42991



Learning Knowledge

Doctorate 2002 - 2008	Dokuz Eylul University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (Dr), Turkey
Postgraduate 2000 - 2001	Dokuz Eylul University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (YI) (Tezli), Turkey
Postgraduate 1996 - 2000	Dokuz Eylul University, Sosyal Bilimler Enstitüsü, Production Management and Industrial Business Administration (MSc) (with Thesis), Turkey
Undergraduate 1992 - 1996	Dokuz Eylul University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, Turkey

Dissertations

Doctorate, Nonlinear Evolutionary Algorithms, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (Dr), 2007

Postgraduate, Design of computer aided managerial decision support system for an integrated textile plant based on capacity analysis, Dokuz Eylul University, Fen Bilimleri Enstitüsü, Bilgisayar Mühendisliği (YI) (Tezli), 2001

Academic Titles / Tasks

Associate Professor 2011 - 2016	Dokuz Eylul University, İşletme Fakültesi, İngilizce İşletme Bölümü
Assistant Professor 2009 - 2011	Dokuz Eylul University, İşletme Fakültesi, İngilizce İşletme Bölümü

Lecturer
2004 - 2009

Dokuz Eylul University, İşletme Fakültesi, İngilizce İşletme Bölümü

Research Assistant
1998 - 2004

Dokuz Eylul University, İşletme Fakültesi, İngilizce İşletme Bölümü

Expert
1997 - 1998

Dokuz Eylul University, İşletme Fakültesi, İngilizce İşletme Bölümü

Published journal articles indexed by SCI, SSCI, and AHCI

- Effects of Telerehabilitation-Based Structured Home Program on Activity, Participation and Goal Achievement in Preschool Children with Cerebral Palsy: A Triple-Blinded Randomized Controlled Trial**
Sel S. A., KEREM GÜNEL M., ERDEM S., TUNÇDEMİR M.
CHILDREN-BASEL, vol.10, no.3, 2023 (SCI-Expanded)
- A penalty-based algorithm proposal for engineering optimization problems**
Öztaş G. Z., Erdem S.
NEURAL COMPUTING AND APPLICATIONS, vol.1, no.1, pp.1-10, 2022 (SCI-Expanded)
- The effects of postural control and upper extremity functional capacity on functional Independence in preschool-age children with spastic cerebral palsy: a path model**
Seyhan Bıyık K., Erdem S., Kerem Günel M.
PHYSIOTHERAPY THEORY AND PRACTICE, vol.0, no.0, pp.1-10, 2022 (SCI-Expanded)
- Random search with adaptive boundaries algorithm for obtaining better initial solutions**
Oztas G. Z., ERDEM S.
ADVANCES IN ENGINEERING SOFTWARE, vol.169, 2022 (SCI-Expanded)
- Investigating the effect of macro-scale estimators on worldwide COVID-19 occurrence and mortality through regression analysis using online country-based data sources**
Erdem S., Ipek Erdem F., Bars A., Genc V., Erpek E., Mohammadi S., Altinata A., Akar S.
BMJ OPEN, vol.12, no.2, 2022 (SCI-Expanded)
- Framework selection for developing optimization algorithms: assessing preferences by conjoint analysis and best-worst method**
Oztas G. Z., ERDEM S.
SOFT COMPUTING, vol.25, no.5, pp.3831-3848, 2021 (SCI-Expanded)
- The day of the week effects in stockmarkets of countries with predominantly Muslim populations**
Yardimci B., ERDEM S.
INTERNATIONAL JOURNAL OF ISLAMIC AND MIDDLE EASTERN FINANCE AND MANAGEMENT, vol.13, no.2, pp.195-218, 2020 (SSCI)
- Leading the Strategic Decision-Making Process: Conceptual Frameworks**
ÖZDAĞOĞLU A., ERDEM S., ÖZDAĞOĞLU G.
GLOBAL BUSINESS STRATEGIES IN CRISIS: STRATEGIC THINKING AND DEVELOPMENT, pp.31-42, 2017 (SSCI)
- Extreme Value Theory in Finance: A Way to Forecast Unexpected Circumstances**
ASLANERTİK B. E., ERDEM S., KURT GÜMÜŞ G.
RISK MANAGEMENT, STRATEGIC THINKING AND LEADERSHIP IN THE FINANCIAL SERVICES INDUSTRY: A PROACTIVE APPROACH TO STRATEGIC THINKING, pp.177-190, 2017 (SSCI)
- Work Stress and Emotional Exhaustion in Nurses: The Mediating Role of Internal Locus of Control**
GÜNÜŞEN N., Ustun B., ERDEM S.

- RESEARCH AND THEORY FOR NURSING PRACTICE, vol.28, no.3, pp.260-268, 2014 (SCI-Expanded)
11. **A special purpose multi-criteria heuristic function for a single machine scheduling problem with forward dynamic programming**
Özdağoğlu G., Erdem S., Salum L.
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.68, pp.1875-1886, 2013 (SCI-Expanded)
12. **A NEW ANN TRAINING APPROACH FOR EFFICIENCY EVALUATION**
ERDEM S., DEVECİ KOCAKOÇ İ.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.39, no.3, pp.439-447, 2010 (SCI-Expanded)

Articles Published in Other Journals

1. **Araştırmacıların klinik araştırma gerçekleştirirken karşılaştıkları sorunlar ve ihtiyaçlar: Pilot bir anket çalışması: The challenges and needs of investigators conducting a clinical trial: a pilot survey study**
Erbayraktar B., Ergin K., Erdem S., Keskinoglu P., Tunçok Y.
Dokuz Eylül Üniversitesi Tıp Fakültesi Dergisi, vol.32, no.2, pp.111-122, 2018 (Peer-Reviewed Journal)
2. **The Impact of Performance Management Behaviors on Employee Performance**
Musa B., Günlü E., Erdem S.
Economic and Management Sciences, vol.18, no.2, pp.175-190, 2017 (Peer-Reviewed Journal)
3. **Sağlık Kuruluşları Performansının Veri Zarflama Analizi ile İncelenmesi ve Bir Uygulama**
GÜLER M., DOĞAN Ö., ERDEM S.
Verimlilik Dergisi, no.4, pp.1169-185, 2017 (Peer-Reviewed Journal)
4. **The main determinants of differences in compliance levels of disclosure items for IAS 16 in BIST**
ERDEM S., ASLANERTİK B. E., Yardimci B.
JOURNAL OF FINANCIAL REPORTING AND ACCOUNTING, vol.15, no.3, pp.317-332, 2017 (ESCI)
5. **2015 Haziran ve Kasım Seçimlerinde Siyasal Eğilim: Yeni Bir Kamuoyu Ölçümleme Aracı Olarak Twitter**
TOKER H., ERDEM S., Özşarlak P.
Erciyes İletişim Dergisi, vol.5, no.1, pp.96-116, 2017 (Peer-Reviewed Journal)
6. **Analyzing Exposures to Electromagnetic Fields in an Intensive Care Unit**
Gokmen N., ERDEM S., Toker K. A., ÖÇMEN E., Gokmen B. I., ÖZKURT A.
TURKISH JOURNAL OF ANAESTHESIOLOGY AND REANIMATION, vol.44, no.5, pp.236-240, 2016 (ESCI)
7. **Hastane Medikal Sarf Malzemelerinde Parti Büyüklüklerinin Belirlenmesine Yönelik Bir Uygulama**
ERDEM S., Durmuş A.
Dokuz Eylül Üniversitesi İşletme Fakültesi Dergisi, vol.17, no.1, pp.23-46, 2016 (Peer-Reviewed Journal)
8. **Supporting Healthcare Executive Managers' Decisions Through Dashboards**
ERDEM S., Kizilelma T. T., Vural C. A.
JOURNAL OF INFORMATION & KNOWLEDGE MANAGEMENT, vol.15, no.1, 2016 (ESCI)
9. **Developing a new product via modern QFD: An application for bedding of laboratory animals**
Erdem S., Özdağoğlu G., Yılmaz O.
International Journal of Product Development, vol.21, no.2-3, pp.79-96, 2016 (Scopus)
10. **Developing a new product via modern QFD: An application for bedding of laboratory animals**
ERDEM S., ÖZDAĞOĞLU G., YILMAZ O.
International Journal of Product Development, vol.21, no.2-3, pp.79-96, 2016 (Scopus)
11. **Market value chain efficiency in Turkey: Application of DEA to the pre- and post-2001 financial crisis**
Kirkulak B., ERDEM S.
EuroMed Journal of Business, vol.9, no.1, pp.2-17, 2014 (Scopus)
12. **Business intelligence applications in retail business: OLAP, data mining and reporting services**
Kocakoç İ., Erdem S.

- Journal of Information and Knowledge Management, vol.9, no.2, pp.171-181, 2010 (ESCI)
13. **Implementing lean service operations A case study from Turkish banking industry**
ERDEM S., AKSOY K.
Dokuz Eylül Üniversitesi İşletme Fakültesi, vol.10, no.1, pp.171-198, 2009 (Peer-Reviewed Journal)
 14. **Ege Bölgesindeki Bir Araştırma ve Uygulama Hastanesinin Acil Hasta Verilerinin Veri Madenciliği ile Analiz Edilmesi**
Erdem S., Özdağoğlu G.
Anadolu Üniversitesi Bilim ve Teknoloji Dergisi, vol.9, no.2, pp.261-270, 2008 (Peer-Reviewed Journal)

Books & Book Chapters

1. **Smart Contracts and Taxation Process Based on Blockchain Technology**
ÖZDAĞOĞLU G., ERDEM S., ÖZEN A.
in: Blockchain Technology and Applications, Manoj Kumar MV, Annappa B, Likewin Thomas, Sourav Kanti Addya, Niranjnamurthy M, Editor, Taylor and Francis, New York, pp.279-293, 2023

Refereed Congress / Symposium Publications in Proceedings

1. **Criteria Assessment for Covid-19 Vaccine Selection via BWM**
Oztas G. Z., Bars A., Genc V., ERDEM S.
2nd International Workshop on Best-Worst Method (BWM), ELECTR NETWORK, 10 - 11 June 2021, pp.228-237
2. **Multi-Criteria Decision-Making Approach Based on a Literature Survey in Choosing Software Tools for Solution of Optimization Problems**
ÖZTAŞ G. Z., ERDEM S.
International Symposium of Econometrics, Operations Research and Statistics 2020, 12 - 14 February 2020
3. **Optimization by repulsive forces based on charged particles**
ÖZTAŞ G. Z., ERDEM S.
International Conference on Data Science, Machine Learning and Statistics, 26 - 29 June 2019
4. **Simplifying Association Rules for the Development of Efficient Business Strategies from Basket Analyses**
COWLEY J. D., ÖZDAĞOĞLU G., ERDEM S.
İzmir International Congress on Economics and Administrative Sciences, İzmir, Turkey, 5 - 08 December 2018, pp.1621-1634
5. **Yükseköğretim Bilgi Sistemlerinde Büyük Veri Analitiği Kullanımını Destekleyen Çalışmaların Bilimetric Analizi**
Damar M., Özdağoğlu G., Özdağoğlu A., Erdem S.
International Conference on Quality in Higher Education(ICQH2017), Sakarya, Turkey, 7 - 08 December 2017, pp.327
6. **Data envelopment analysis performance by health agencies and an application**
DOĞAN Ö., DEMİRCİ M. K., ERDEM S., MERCAN N.
VI. EUROPEAN CONFERENCE ON SOCIAL AND BEHAVIORAL SCIENCES, 5 - 07 February 2015, pp.6
7. **Developing a New Product for Bedding of Laboratory Animals**
ERDEM S., ÖZDAĞOĞLU G.
20th International Symposium on Quality Function Deployment, İstanbul, Turkey, 4 - 05 September 2014
8. **Assessing Entrepreneurial Potential of Individuals Using Principal Component Analysis**
ERDEM S., BIÇAKCIOĞLU N., ÇAĞLIYANGİL M.
20th Conference of the International Federation Operational Research Societies (IFORS), Barcelona, Spain, 13 - 18 July 2014
9. **The Contribution Of Disease Activity On Function and Quality Of Life In Patients With Ankylosing**

Spondylitis; Investigating Causality By Using Structural Equation Model

Akar S., ERDEM S., Akat K., Solmaz D., SARI İ.

77th Annual Meeting of the American-College-of-Rheumatology / 48th Annual Meeting of the Association-of-Rheumatology-Health-Professionals, California, United States Of America, 25 - 30 October 2013, vol.65

10. **DEVELOPMENT OF EDUCATIONAL STRUCTURE FOR BUSINESS STUDENTS IN QUANTITATIVE AREA**
İKİZ A. K., ÖZDAĞOĞLU G., ERDEM S., KAPLANSEREN F.
THE 16. INTERNATIONAL AND 22. N. AMERICAN SYMPOSIUM ON QFD, PORTLAND, United States Of America, 24 - 25 September 2010, pp.99-111
11. **Development of Educational Structure for Business Students in Quantitative Methods Area**
ÖZDAĞOĞLU G., KAPUÇUGİL İKİZ A., ERDEM S., KAPLANSEREN F.
The 16th International Symposium on Quality Function Deployment, Portland, United States Of America, 01 September 2010
12. **Analyzing Financial Resource Structuring Patterns Using Data Mining:Evidence from Istanbul Stock Exchange**
ASLANERTİK B. E., ERDEM S.
23rd European Conference on Operational Research, 5 - 07 July 2009
13. **Design of Experiments on ANN s Training Data for Predicting Turkish IPOs**
ERDEM S., KAPUÇUGİL İKİZ A., GÖKŞEN Y.
23rd European Conference on Operational Research, EURO XXIII BONN, Bonn, Germany, 5 - 08 July 2009, pp.121
14. **Ege Bölgesindeki Bir Araştırma ve Uygulama Hastanesinin AcilHasta Verilerinin Veri Madenciliği ile Analiz Edilmesi**
ERDEM S., ÖZDAĞOĞLU G.
27. Ulusal YA/EM Kongresi, İzmir, Turkey, 01 July 2007
15. **Dokuz Eylül Üniversitesi Sağlık Bilimleri Enstitüsünde Öğretim Üyeleri Hoşnutluğunun Analizi**
ERDEM S., DEVEBAKAN N., AKDOĞAN G.
Mezuniyet Sonrası Tıp Eğitimi Sempozyumu, Ankara, Turkey, 4 - 05 May 2007, pp.60
16. **Dokuz Eylül Üniversitesi Sağlık Bilimleri Enstitüsünde Verilen Derslerin Değerlendirilmesi**
DEVEBAKAN N., ERDEM S., AKDOĞAN G.
Mezuniyet Sonrası Tıp Eğitimi Sempozyumu, Ankara, Turkey, 4 - 05 May 2007, pp.59
17. **Yüksek Lisans ve Doktora Öğrencilerinin Dokuz Eylül Üniversitesi Sağlık Bilimleri Enstitüsü Hizmetlerine İlişkin Değerlendirmeleri**
DEVEBAKAN N., ERDEM S., AKDOĞAN G.
Mezuniyet Sonrası Tıp Eğitimi Sempozyumu, Ankara, Turkey, 4 - 05 May 2007, pp.58
18. **Semantic Customer Voice Collection in House of Quality**
Özdağoğlu A., Kapuçugil İkiz A., Erdem S., Özdağoğlu G.
11th International Symposium on Quality Function Deployment, Aydın, Turkey, 26 - 30 September 2005, pp.67-83
19. **Kalite Kültüründe Kalite Fonksiyon Göçerimi nin Rolü**
Erdem S., Özdağoğlu G., Özdağoğlu A.
2. KALİTE SEMPOZYUMU, İzmir, Turkey, 28 - 30 May 2003, pp.62-69
20. **BELEDİYELERDE BEKLENEN ALGILANAN HİZMET KALİTESİNİN SERVQUAL MODELİ İLE ÖLÇÜLMESİ VE MUĞLA İLİNDE BİR UYGULAMA**
Gümüşoğlu Ş., Erdem S., Özdağoğlu G., Özdağoğlu A.
3. Ulusal Üretim Araştırmaları Sempozyumu, İstanbul, Turkey, 19 - 20 April 2003, pp.362-371
21. **Belediyelerde Beklenen-Algılanan Hizmet Kalitesinin Servqual Modeli ile Ölçülmesi ve Muğla İlinde Bir Uygulama**
Gümüşoğlu Ş., Erdem S., Özdağoğlu G., Özdağoğlu A.
3. ULUSAL ÜRETİM ARAŞTIRMALARI SEMPOZYUMU, İstanbul, Turkey, 19 - 20 April 2003, pp.362-371
22. **Sürekli İyileştirme Projelerinin Seçiminde Analitik Hiyerarşi Sürecinin Kullanımı**
Erdem S., Özdağoğlu G.
I.Ulusal Kalite Fonksiyon Göçerimi Sempozyumu, İzmir, Turkey, 01 April 2002, pp.315-330

Academic and Administrative Experience

2012 - 2015	Head of Department	Dokuz Eylul University
2009 - 2012	Head of Department	Dokuz Eylul University

Courses

DATA ANALYSIS, Doctorate, 2015 - 2016, 2014 - 2015, 2013 - 2014
DECISION MAKING IN BUSINESS, Doctorate, 2015 - 2016, 2014 - 2015, 2013 - 2014
FUNDAMENTAL INFORMATION TECHNOLOGIES, Undergraduate, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013
İŞLETMELERDE WEB TEKNOLOJİLERİ, Undergraduate, 2015 - 2016
STATISTICAL DECISION MAKING, Doctorate, 2015 - 2016, 2014 - 2015, 2013 - 2014
E-İŞ, Undergraduate, 2014 - 2015
DECISION SUPPORT SYSTEMS DESIGN and IMPLEMENTATION, Doctorate, 2014 - 2015

Advising Theses

ERDEM S., Doğadan esinlenen evrimsel algoritmalar ve bir model önerisi, Doctorate, G.ZEYNEP(Student), 2021
ERDEM S., Importance of appointment systems for customer satisfaction and health care quality, Postgraduate, C.MERVE(Student), 2018
ERDEM S., Bir otomotiv tedarikçi firmasında sipariş büyüklüğünün belirlenmesi ve değişebilir periyodik tüketim esaslı stok siparişinin verilmesi, Postgraduate, H.ENGİN(Student), 2015
ERDEM S., Public transportation preferences of disabled people, Postgraduate, M.ÇAĞLIYANGİL(Student), 2014
ERDEM S., Otomatik medikal saklama depolarının müşterinin sesi yoluyla optimizasyonu, Postgraduate, J.NALLIOĞLU(Student), 2014
ERDEM S., Proposal for a system for health care surgical supplies, Postgraduate, A.DURMUŞ(Student), 2012
ERDEM S., Application of Lean Production System in a Manufacturing Company, Postgraduate, G.TAŞDEMİR(Student), 2011
ERDEM S., Lean Service Management and an Application, Postgraduate, K.AKSOY(Student), 2009

Research Areas

Healthcare Management, Management, Production Management, Quantitative Methods, Management Information Systems, Production and Service Systems, Engineering Administration, Entrepreneurship and Innovation Management, Computer Sciences, algorithms, Uncertainty Management, Computer Learning, Evolutionary Computing, Neural Networks, Soft Computing, Industrial Engineering, Stochastic Modeling, Optimization Theory and Methods, Simulation, Production Planning and Control, Engineering Economics, Decision Theory, Multi Criteria Decision Making, Decision Support Systems, Statistical Analysis and Applications