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Learning Knowledge

Doctorate 2013 - 2019	Galatasaray University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (Dr), Turkey
Postgraduate 2011 - 2013	Galatasaray University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (Yl) (Tezli), Turkey
Undergraduate 2007 - 2011	Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Endüstri Mühendisliği Bölümü, Turkey

Dissertations

Doctorate, Medical Decision Support Applications Using Artificial Intelligence Techniques, Galatasaray Üniversitesi, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (Dr), 2019
Postgraduate, EVALUATING PRICING STRATEGIES WITH FUZZY LINEAR PROGRAMMING APPROACHES, Galatasaray Üniversitesi, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (Yl) (Tezli), 2013

Academic Titles / Tasks

Research Assistant PhD 2011 - Continues	Galatasaray University, Mühendislik Ve Teknoloji Fakültesi, Endüstri Mühendisliği

Supported Projects

1. ALBAYRAK Y. E., DURSUN M., DOĞU E., GÖKER MUTLU N., KOP NASKALİ Y., Project Supported by Higher Education Institutions, Sağlık hizmetlerinde Yapay Zeka Sinir Ağları ve Makine Öğrenimi Uygulamaları, 2020 - 2022
2. DOĞU E., DURSUN M., GÖKER MUTLU N., ALBAYRAK Y. E., Project Supported by Higher Education Institutions, KARAR ANALİZİNDE BULANIK VE SEZGİSEL YAKLAŞIMLARIN SEKTÖREL UYGULAMALARI, 2019 - 2022

Awards

1. Doğu E., Best Presenter Award, International Conference On Advanced Technology Sciences, May 2017
2. Gürbüz T., Doğu E., Albayrak Y. E., Best Paper Award, The International Multiconference Of Engineers And Computer Scientists, March 2012

Published journal articles indexed by SCI, SSCI, and AHCI

1. **Artificial intelligence based prediction models: sales forecasting application in automotive aftermarket**
   Turkbayragi M. G., DOĞU E., ALBAYRAK Y. E.
   JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.42, no.1, pp.213-225, 2022 (SCI-Expanded)
2. **Length of hospital stay prediction with an integrated approach of statistical-based fuzzy cognitive maps and artificial neural networks**
   DOĞU E., ALBAYRAK Y. E., Tuncay E.
   MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING, vol.59, no.3, pp.483-496, 2021 (SCI-Expanded)
3. **THE VALIDITY OF THE SPESI SCORE IN MORTALITY PREDICTION AT FOUR-YEAR FOLLOW-UP OF PATIENTS WITH PULMONARY EMBOLISM AND AGED OVER 65 YEARS**
   Tuncay E., Kanmaz Z. D., Aras G., DOĞU E., Mandal T., Yenturk E., Boyuk F.
   TURKISH JOURNAL OF GERIATRICS-TURK GERIATRI DERGISI, vol.24, no.4, pp.585-598, 2021 (SCI-Expanded)
4. **An Integrated Decision Support System for Hospital Management: Statistical-Based Fuzzy Cognitive Maps**
   DOĞU E., ALBAYRAK Y. E., Tuncay E.
   JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING, vol.34, pp.527-552, 2020 (SCI-Expanded)
5. **Multidrug-resistant tuberculosis risk factors assessment with intuitionistic fuzzy cognitive maps**
   DOĞU E., ALBAYRAK Y. E., Tuncay E.
   JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.38, no.1, pp.1083-1095, 2020 (SCI-Expanded)
6. **Criteria evaluation for pricing decisions in strategic marketing management using an intuitionistic cognitive map approach**
   DOĞU E., ALBAYRAK Y. E.
   SOFT COMPUTING, vol.22, no.15, pp.4989-5005, 2018 (SCI-Expanded)
7. **Criteria Weighting and 4P's Planning in Marketing Using a Fuzzy Metric Distance and AHP Hybrid Method**
   GÜRBÜZ T., ALBAYRAK Y. E., Alaybeyoglu E.
   INTERNATIONAL JOURNAL OF COMPUTATIONAL INTELLIGENCE SYSTEMS, vol.7, pp.94-104, 2014 (SCI-Expanded)

Articles Published in Other Journals

1. **Can survival in cancer patients be accurately predicted with the Palliative Performance Scale?**
   Gülfidan A., Seçik Arkın F., DOĞU E.
   FAMILY PRACTICE AND PALLIATIVE CARE, vol.6, no.1, pp.49-55, 2021 (Peer-Reviewed Journal)
2. **A Decision-Making Approach with Q-Rung Orthopair Fuzzy Sets: Orthopair Fuzzy TOPSIS Method**
   Doğu E.
   Academic Platform Journal of Engineering and Science, vol.9, no.1, pp.214-222, 2021 (Peer-Reviewed Journal)
3. **A Cognitive Mapping Approach for Evaluation of Success Indicators of IT Transformation Project**
   Göker Mutlu N., Dursun M., Doğu E.
   Engineering World, vol.2, pp.96-99, 2020 (Peer-Reviewed Journal)
4. **Comparison of Artificial Neural Networks and Logistic Regression for 30-days Survival Prediction of Cancer Patients.**
   Arkin F., Aras G., Dogu E.
   Acta informatica medica : AIM : journal of the Society for Medical Informatics of Bosnia & Herzegovina :

casopis Drustva za medicinsku informatiku BiH, vol.28, pp.108-113, 2020 (Scopus)

Books & Book Chapters

1. **Construction of intuitionistic fuzzy cognitive maps for target marketing strategy decisions**
   DOĞU E., GÜRBÜZ T., ALBAYRAK Y. E.
   in: Advances in Intelligent Systems and Computing, , Editor, Springer Verlag, pp.620-630, 2018
2. **Facility location selection employing fuzzy DEA and fuzzy goal programming techniques**
   CEDOLİN M., GÖKER N., DOĞU E., ALBAYRAK Y. E.
   in: Advances in Intelligent Systems and Computing, , Editor, Springer Verlag, pp.466-476, 2018

Refereed Congress / Symposium Publications in Proceedings

1. **Predicting Intensive Care Unit (ICU) Requirement in COVID- 19 with Artificial Neural Network**
   Çotoy Y., Doğu E., Albayrak Y. E.
   11th International Symposium on Intelligent Manufacturing and Service Systems - IMSS'21, Sakarya, Turkey, 27 - 29 May 2021, pp.456-465
2. **Artificial Intelligence Based Prediction Models**
   Türkbayrağı M. G., DOĞU E., ALBAYRAK Y. E.
   10th International Symposium on Intelligent Manufacturing and Service Systems, Sakarya, Turkey, 9 - 11 September 2019, pp.1338-1350
3. **Warehouse Supply Chain Management in Healthcare**
   DOĞU E., ALBAYRAK Y. E., GÖKER N.
   LMSCM 2018, 18 - 20 October 2018
4. **A Computational-Intelligence Based Approach to Diagnosis of Diabetes Mellitus Disease**
   DOĞU E., ALBAYRAK Y. E.
   13th International Conference on Application of Fuzzy Systems and Soft Computing (ICAFS), Warszawa, Poland, 27 - 28 August 2018, vol.896, pp.154-159
5. **Tüberküloz Hastalığında Direnç Gelişimine Sebep Olan Faktörlerin Sezgisel Bulanık Bilişsel Haritalama ile Değerlendirilmesi**
   DOĞU E., ALBAYRAK Y. E.
   38. Yöneylem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi (YAEM 2018), Eskişehir, Turkey, 26 - 29 June 2018
6. **Intuitionistic fuzzy decision making: Multi-drug resistant tuberculosis risk assessment**
   DOĞU E., ALBAYRAK Y. E.
   13th International Conference on Fuzzy Logic and Intelligent Technologies in Nuclear Science (FLINS), Belfast, United Kingdom, 21 - 24 August 2018, vol.11, pp.1357-1363
7. **Facility Location Selection Employing Fuzzy DEA and Fuzzy Goal Programming Techniques**
   CEDOLİN M., GÖKER N., DOĞU E., ALBAYRAK Y. E.
   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.466-476
8. **Construction of Intuitionistic Fuzzy Cognitive Maps for Target Marketing Strategy Decisions**
   DOĞU E., GÜRBÜZ T., ALBAYRAK Y. E.
   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.620-630
9. **A Comparative Study on Breast Cancer Risk Factors Assessment**
   GÜRBÜZ T., DOĞU E., ALBAYRAK Y. E.

21st Conference of the International Federation of Operational Research Societies (IFORS 2017), Quebec City, Canada, 17 - 21 July 2017

10. **Evaluation of Customer Satisfaction Factors in Housing Industry and Selection of the Best Project Using AHP and TOPSIS**
CEDOLİN M., DOĞU E., ALBAYRAK Y. E.
5th International Conference on Advanced Technology Sciences (ICAT'xx 2017), İstanbul, Turkey, 9 - 12 May 2017, pp.83-88
11. **Hospital Performance Evaluation, A Fuzzy Data Envelopment Analysis Approach**
DOĞU E., CEDOLİN M., ALBAYRAK Y. E.
5th International Conference on Advanced Technology Sciences (ICAT'xx 2017), İstanbul, Turkey, 9 - 12 May 2017, pp.89-94
12. **Evaluating Sustainable City Logistic Solutions Using Intuitionistic Fuzzy Linear Programming**
DOĞU E., ALBAYRAK Y. E.
14th International Logistics and Supply Chain Congess (LM-SCM 2016), İzmir, Turkey, 1 - 02 December 2016
13. **A NOVEL APPROACH FOR CRITERIA EVALUATION IN STRATEGIC MARKETING MANAGEMENT: INTUITIONISTIC COGNITIVE MAP**
DOĞU E., ALBAYRAK Y. E.
12th International Conference on Fuzzy Logic and Intelligent Technologies in Nuclear Science (FLINS), Roubaix, France, 24 - 26 August 2016, vol.10, pp.826-831
14. **Pricing Strategy Selection Using Fuzzy Linear Programming**
DOĞU E., ALBAYRAK Y. E.
ICIESM 2013: International Conference on Industrial Engineering and Systems Management, BARSELONA, Spain, 14 - 15 October 2013, vol.7, pp.871-877
15. **Marketing Strategy Selection in New Product Development using Fuzzy Linear Programming**
DOĞU E., ALBAYRAK Y. E., GÜRBÜZ T.
6th International Colloquium on Business Management (ICBM), Bangkok, Thailand, 19 - 22 August 2013
16. **Criteria Weighing and 4 P Planning in Marketing Using A Fuzzy Metric Distance and AHP Hybrid Method**
GÜRBÜZ T., ALBAYRAK Y. E., DOĞU E.
10th International FLINS Conference on Uncertainty Modeling in Knowledge Engineering and Decision Making (FLINS 2012), İstanbul, Turkey, 27 August 2012
17. **CRITERIA WEIGHING AND 4P'S PLANNING IN MARKETING USING A FUZZY METRIC DISTANCE AND AHP HYBRID METHOD**
GÜRBÜZ T., ALBAYRAK Y. E., Alaybeyoglu E.
10th International Conference on Fuzzy Logic and Intelligent Technologies in Nuclear Science (FLINS), İstanbul, Turkey, 26 - 29 August 2012, vol.7, pp.255-260
18. **Criteria Weighting and 4-P Planning in Marketing Using Analytic Network Process**
Alaybeyoglu E., ALBAYRAK Y. E., GÜRBÜZ T.
International MultiConference of Engineers and Computer Scientists (IMECS 2012), Hong Kong, PEOPLES R CHINA, 14 - 16 March 2012, pp.1240-1243
19. **Yeni Ürün Geliştirme Sürecinde Pazarlama Stratejisi Seçimi Hibrid Çok Kriterli Karar Verme Modeli Önerisi**
DOĞU E., ALBAYRAK Y. E., GÜRBÜZ T.
Yöneylem Araştırması ve Endüstri Mühendisliği 31. Ulusal Kongresi, Sakarya, Turkey, 5 - 07 July 2011, pp.180

Courses

Career Planning, Undergraduate, 2021 - 2022

Metrics

Publication: 32
Citation (WoS): 32
Citation (Scopus): 48
H-Index (WoS): 2
H-Index (Scopus): 4

Research Areas

Biostatistics and Medical Informatics, Multi Criteria Decision Making, Decision Support Systems