Prof. ÇİĞDEM ALABAŞ USLU

Personal Information

Email: cigdem.uslu@marmara.edu.tr
Web: https://avesis.marmara.edu.tr/cigdem.uslu

International Researcher IDs
ScholarID: awnzTRwAAAAJ&hl=tr
ORCID: 0000-0002-4594-1360
Yoksis Researcher ID: 126061

Biography

Dr. Çiğdem Alabaş Uslu lisans ve yüksek lisans derecelerini Gazi Üniversitesi Endüstri Mühendisliği anabilim dalında tamamladı. 2004-2011 yıllarında Maltepe Üniversitesi ve Okan Üniversitesi'nde yardımcı doçent olarak çalıştı. 2011-2014 yıllarında Marmara Üniversitesi Endüstri Mühendisliği Bölümünde doçent olarak ve 2015 yılından bu yana aynı bölümde profesör olarak çalışmaktadır. Dr. Alabaş Uslu, temel olarak, şebekelerin topolojik tasarımı, çizelgeleme, rotalama, tesis yerleştirme gibi karmaşık problemlerin matematiksel modelleme ve sezgisel algoritmalar kullanılarak çözülmesi üzerinde çalışmaktadır. Bir başka çalışma alanı da simulasyon optimizasyonudur.

Education Information

Doctorate, Gazi University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, Turkey 2000 - 2004
Postgraduate, Gazi University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, Turkey 1996 - 1999
Undergraduate, Gazi University, Mühendislik Fakültesi, Endüstri Mühendisliği Bölümü, Turkey 1990 - 1995

Foreign Languages

English, C1 Advanced

Research Areas

Engineering and Technology

Academic Titles / Tasks

Professor, Marmara University, Faculty of Engineering, Industrial Engineering, 2016 - Continues
Associate Professor, Marmara University, Faculty of Engineering, Industrial Engineering, 2011 - 2016
Assistant Professor, Maltepe University, Faculty Of Engıneerıng And Natural Scıences, Department Of Industrıal Engıneerıng, 2004 - 2009

Academic and Administrative Experience

Marmara University, Faculty of Engineering, Industrial Engineering, 2014 - Continues

Advising Theses

Alabaş Uslu Ç., OFFSHORE WIND FARM LAYOUT OPTIMIZATION USING MATHEMATICAL APPROACHES AND HEURISTIC TECHNIQUES, Doctorate, İ.Ülkü(Student), Continues
Alabaş Uslu Ç., Fractal geometry inspired solution generation to enhance effectiveness of metaheuristic algorithms, Doctorate, M.ÖZTÜRK(Student), 2020
ALABAŞ USLU Ç., Mathematical models and heuristic approaches to batch processing machine scheduling problem, Doctorate, B.Öğün(Student), 2019
ALABAŞ USLU Ç., Heuristic solution to the product targeting problem based on mathematical programming, Doctorate, F.ÇETİN(Student), 2016

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Initial preference algorithm of industrial project portfolio**
Cihan E. E., Alabas-Uslu C., Kabak Ö.
KYBERNETES, vol.52, no.12, pp.6025-6048, 2023 (SCI-Expanded)

II. **Hyper-project portfolio management: post-merger project portfolios**
Cihan E. E., Uslu Ç., Kabak Ö.
Management Decision, vol.61, no.8, pp.2280-2301, 2023 (SSCI)

III. **A multi-objective agile project planning model and a comparative meta-heuristic approach**
Özçelikkan N., Tuzkaya G., Alabaş Uslu Ç., Sennaroğlu B.
INFORMATION AND SOFTWARE TECHNOLOGY, vol.151, 2022 (SCI-Expanded)

IV. **Optimization of cable layout designs for large offshore wind farms**
Ulku I., ALABAŞ USLU Ç.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.44, no.8, pp.6297-6312, 2020 (SCI-Expanded)

V. **Cantor set based neighbor generation method for permutation solution representation**
Ozturk M., Alabas-Uslu C.
JOURNAL OF INTELLIGENT & FUZZY SYSTEMS, vol.39, no.5, pp.6157-6168, 2020 (SCI-Expanded)

VI. **A new mathematical programming approach to wind farm layout problem under multiple wake effects**
Ulku I., Alabas-Uslu Ç.
RENEWABLE ENERGY, vol.136, pp.1190-1201, 2019 (SCI-Expanded)

VII. **Uçağa yolcu alma problemi için benzetim temelli bir karar destek sistemi**
Azuz E., Tatar T., ALABAŞ USLU Ç.
Journal Of The Faculty Of Engineering And Architecture Of Gazi University, 2019 (SCI-Expanded)

VIII. **Modified self-adaptive local search algorithm for a biobjective permutation flow shop scheduling problem**
ALABAŞ USLU Ç., Dengiz B., Aglan C., SABUNCUOĞLU İ.
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.27, no.4, pp.2730-2745, 2019 (SCI-Expanded)

IX. **Heuristic solution to the product targeting problem based on mathematical programming**
Cetin F., ALABAŞ USLU Ç.
INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH, vol.55, no.1, pp.3-17, 2017 (SCI-Expanded)

X. **A self-tuning heuristic for the design of communication networks**
DENGİZ B., ALABAŞ USLU Ç.
JOURNAL OF THE OPERATIONAL RESEARCH SOCIETY, vol.66, no.7, pp.1101-1114, 2015 (SCI-Expanded)

XI. **A Self-Adaptive Heuristic Algorithm for Combinatorial Optimization Problems**

ALABAŞ USLU Ç., DENGİZ B.

INTERNATIONAL JOURNAL OF COMPUTATIONAL INTELLIGENCE SYSTEMS, vol.7, no.5, pp.827-852, 2014 (SCI-Expanded)

XII. **A self adaptive local search algorithm for the classical vehicle routing problem**

ALABAŞ USLU Ç., DENGİZ B.

Expert Systems With Applications, vol.38, pp.8990-8998, 2011 (SCI-Expanded)

XIII. **Optimization of manufacturing systems using a neural network metamodel with a new training approach**

DENGİZ B., ALABAŞ USLU Ç., Dengiz O.

Journal Of The Operational Research Society, vol.60, pp.1191-1197, 2008 (SCI-Expanded)

XIV. **A tabu search algorithm for the training of neural networks**

DENGİZ B., ALABAŞ USLU Ç., dengiz o.

Journal Of The Operational Research Society, vol.60, pp.282-291, 2008 (SCI-Expanded)

XV. **A self tuning heuristic for a multi objective vehicle routing problem**

ALABAŞ USLU Ç.

Journal Of The Operational Research Society, vol.59, pp.988-996, 2007 (SCI-Expanded)

XVI. **A comparison of the performance of artificial intelligence techniques for optimizing the number of kanbans**

ALABAŞ USLU Ç., ALTIPARMAK F., DENGİZ B.

Journal Of The Operational Research Society, vol.53, pp.907-914, 2002 (SCI-Expanded)

Articles Published in Other Journals

I. **Mathematical Models for a Batch Scheduling Problem to Minimize Earliness and Tardiness**

Ogun B., ALABAŞ USLU Ç.

JOURNAL OF INDUSTRIAL ENGINEERING AND MANAGEMENT-JIEM, vol.11, no.3, pp.390-405, 2018 (ESCI)

II. **Performance evaluation of Projects in Software Development**

çetin f., ALABAŞ USLU Ç.

Journal of Aeronatutics and Space Technologies, vol.8, no.2, pp.1-6, 2015 (Peer-Reviewed Journal)

Books & Book Chapters

I. **Parameter Tuning Problem in Metaheuristics: A Self-Adaptive Local Search Algorithm for Combinatorial Problems**

Alabaş Uslu Ç.

in: Women in Industrial and Systems Engineering. Women in Engineering and Science, Alice Smith, Editor, Springer, Colorado, pp.93-111, 2019

II. **Solution Approaches forReverse Logistics ConsideringRecovery Options:A Literature Review**

KATRANCIOĞLU S., KILIÇ H. S., ALABAŞ USLU Ç.

in: Handbook of Research on Green Engineering Techniques for Modern Manufacturing, M. Uthayakumar, S. Aravind Raj, Tae Jo Ko, S. Thirumalai Kumaran, J. Paulo Davim, Editor, IGI Global, pp.192-210, 2019

III. **Modül C Ulaştırma Modelleri**

ALABAŞ USLU Ç.

in: Üretim Yönetimi Sürdürülebilirlik ve Tedarik Zinciri Yönetimi, Umut Rıfat Tuzkaya, Editor, Palme Yayıncılık, pp.717-734, 2017

Refereed Congress / Symposium Publications in Proceedings

I. **Product Recovery Option Evaluation For Different Departmental Objectives Via Fuzzy AHP**
KATRANCIOĞLU S., KILIÇ H. S., ALABAŞ USLU Ç.
Hybrid Global Joint Conference on Industrial Engineering and Its Application Areas, 29 October 2022

II. **A holistic approach for the optimization of offshore wind farm layouts considering cable layouts**
ÜLKÜ İ., ALABAŞ USLU Ç.
The 2nd International Conference on Renewable Energy and Environment Engineering (REEE2019), Munich, Germany, 19 - 22 August 2019

III. **A Novel Neighborhood Generation Method for Heuristics and Application to Traveling Salesman Problem**
Alabaş Uslu Ç., Öztürk M.
Intelligent and Fuzzy Systems, İstanbul, Turkey, 23 - 25 July 2019, vol.1029, pp.1215-1221

IV. **Rüzgâr Enerji Santrallerinin Kurulumunda Türbin Yerlerinin ve Elektrik Kablo Bağlantılarının Optimizasyonu**
ÜLKÜ İ., ALABAŞ USLU Ç.
39. Yöneylem Araştırması ve Endüstri Mühendisliği (YA/EM) Ulusal Kongresi, Ankara, Turkey, 12 - 14 June 2019

V. **Cantor Set Based Neighborhood Generation: An Application to Quadratic Assignment Problem**
ÖZTÜRK M., ALABAŞ USLU Ç.
Yöneylem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi, Turkey, 12 - 14 June 2019

VI. **Wind farm layout optimization to maximize total power production**
ÜLKÜ İ., ALABAŞ USLU Ç.
3rd International Conference on Sustainable and Renewable Energy Engineering, Zamora, Ecuador, 9 - 11 May 2018

VII. **Optimizing the design of offshore wind farm cable routing**
ÜLKÜ İ., ALABAŞ USLU Ç.
6 th Eur. Conf. Ren. Energy Sys, 25 - 27 July 2018

VIII. **Rüzgar Türbinlerinin Yerleşim Problemi İçin Yeni Bir Matematiksel Model**
ÜLKÜ İ., ALABAŞ USLU Ç.
38. Yöneylem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi (YAEM), Eskişehir, Turkey, 26 - 29 June 2018

IX. **Optimization of offshore wind farm cable layouts**
ÜLKÜ İ., ALABAŞ USLU Ç.
Sixth European Conference on Renewable Energy Systems (ECRES2018), İstanbul, Turkey, 25 - 27 June 2018

X. **OFFSHORE WIND FARM LAYOUT OPTIMIZATION USING MATHEMATICAL MODELING**
ÜLKÜ İ., ALABAŞ USLU Ç.
International Conference on Engineering and Natural Sciences, 24 - 28 May 2016

XI. **A mathematical programming based heuristic model for the product targeting problem**
Çetin F., ALABAŞ USLU Ç.
CIE 44 IMSS'14 Proceedings, 14 - 16 November 2014

XII. **A Local Search Heuristic with Self-tuning Parameter for Permutation Flow-Shop Scheduling Problem**
ALABAŞ USLU Ç., DENGİZ B., SABUNCUOĞLU İ.
IEEE Symposium on Computational Intelligence in Scheduling, 30 March - 02 April 2009

XIII. **Self-controlled local search heuristic for the design of communication networks**
DENGİZ B., ALABAŞ USLU Ç.
Proceeding of the 35th International Computers and Industrial Engineering, 19 - 22 July 2005

XIV. **An improved simulated annealing algorithm for the vehicle routing problem**
DENGİZ B., ALABAŞ USLU Ç.
Logistics Congress, 2 - 03 November 2004

XV. **A continuous tabu search training algorithm for neural networks**
DENGİZ B., ALABAŞ USLU Ç.
Euro/Informs Joint International Meeting, 6 - 10 July 2003

XVI. **A simulated annealing algorithm for design of computer communication networks**

DENGİZ B., ALABAŞ USLU Ç.

5th World Multiconference on Systemics, Cybernetics and Informatics, Communication Systems and Internet: Part I, 22 - 25 July 2001

XVII. **Simulation optimization using tabu search**

DENGİZ B., ALABAŞ USLU Ç.

Winter Simulation Conference, 10 - 13 December 2000

XVIII. **The optimization of number of kanbans with genetic algorithms, simulated annealing and tabu search**

ALABAŞ USLU Ç., ALTIPARMAK F., DENGİZ B.

Proceedings of the 2000 Congress on Evolutionary Computation, 16 - 19 July 2000

XIX. **A tabu search algorithm for computer networks design**

DENGİZ B., ALABAŞ USLU Ç.

4th World Multiconference on Circuits, Systems, Communications and Computers, 10 - 15 July 2000

XX. **Comparison on the Performance of Modern Heuristics for the Communication Network Design Problems**

DENGİZ B., ALABAŞ USLU Ç.

Industrial Engineering Research Conference, 23 - 25 May 1999

Patent

Kılıç H. S., Alabaş Uslu Ç., KİRALIK ÜRÜNLERİN GERİ DÖNÜŞÜM SEÇENEKLERİNİN BELİRLENMESİNİ SAĞLAYAN BİR SİSTEM, Patent, CHAPTER B Implementation of Operations; Transport, The Invention Registration Number: 2023/003810 , Standard Registration, 2023

Metrics

Publication: 42
Citation (WoS): 124
Citation (Scopus): 199
H-Index (WoS): 7
H-Index (Scopus): 9