

Asst. Prof. Abit BALIN

Personal Information

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International Researcher IDs

ORCID: 0000-0002-4590-2935

Publons / Web Of Science ResearcherID: AAB-7600-2019

ScopusID: 55869219500

Yoksis Researcher ID: 180521

Education Information

Doctorate, Yildiz Technical University, Makina, Endüstri Mühendisliği, Turkey 2010 - 2014

Undergraduate, Yildiz Technical University, Makina, Endüstri Mühendisliği, Turkey 2004 - 2008

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Occupational Health and Safety, İş Güvenliği Uzmanlığı, Çalışma ve Sosyal Güvenlik Bakanlığı, 2014

Dissertations

Doctorate, Türkiye enerji planlaması için çok ölçütlü bir model önerisi A multiple-criteria model suggestion for Turkey energy planning, Yildiz Technical University, Endüstri Mühendisliği, Endüstri Mühendisliği, 2014

Postgraduate, Genetik algoritma ile hat dengeleme / Line balancing with genetical algorithms, Yildiz Technical University, Endüstri Mühendisliği, 2010

Research Areas

Industrial Engineering , Optimization Theory and Methods, Linear Programming, Multi Criteria Decision Making, Supply Chain and Logistics Management

Academic Titles / Tasks

Associate Professor, Istanbul University, School of Transportation and Logistics, Department of Transportation and Logistics, 2021 - Continues

Assistant Professor, Istanbul University, School of Transportation and Logistics, Department of Transportation and Logistics, 2018 - 2021

Assistant Professor, Istanbul University, School of Transportation and Logistics, Department of Transportation and Logistics, 2016 - 2018

Research Assistant PhD, Yalova University, Faculty Of Engineering, Endüstri Mühendisliği, 2014 - 2016

Research Assistant, Yildiz Technical University, Makina, Endüstri Mühendisliği, 2011 - 2014

Courses

Proje Yönetimi, Postgraduate, 2017 - 2018

Tedarik Zinciri Yönetimi, Postgraduate, 2017 - 2018

Rotalama ve Çizelgeleme Optimizasyonu, Postgraduate, 2016 - 2017

Yöneylem Araştırması, Postgraduate, 2016 - 2017

Tedarik Zinciri Yönetimi, Undergraduate, 2017 - 2018

Proje Yönetimi, Undergraduate, 2016 - 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **An integrated interval type-2 fuzzy BWM-MARCOS model for location selection of e-scooter sharing stations: The case of a university campus**
ALTAY B. C., ÇELİK E., OKUMUŞ A., BALIN A., GÜL M.
Engineering Applications of Artificial Intelligence, vol.122, 2023 (SCI-Expanded)
- II. **Bibliometric Review of Route Optimization in Maritime Transportation: Environmental Sustainability and Operational Efficiency**
Mollaoglu M., Altay B. C., BALIN A.
TRANSPORTATION RESEARCH RECORD, no.6, pp.879-890, 2023 (SCI-Expanded)
- III. **Evaluation of various fuel alternatives in terms of sustainability for the ship investment decision using single valued neutrosophic numbers with TOPSIS methods**
Mollaoglu M., BUCAK U., Demirel H., Balin A.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART M-JOURNAL OF ENGINEERING FOR THE MARITIME ENVIRONMENT, vol.237, no.1, pp.215-226, 2023 (SCI-Expanded)
- IV. **A Study Using the Hybrid Fuzzy AHP & TOPSIS Method in the Conversion of a LEED-Certified Education Building into a Nearly Zero-Energy Building in a Cold Climate**
Celik A., Şahin B., MANAY E., BALIN A.
STROJNISKI VESTNIK-JOURNAL OF MECHANICAL ENGINEERING, no.5-6, pp.208-223, 2023 (SCI-Expanded)
- V. **A real case study on the selection of suitable roll stabilizer type for motor yachts using hybrid fuzzy AHP and VIKOR methodology**
Demirel H., ŞENER B., YILDIZ B., BALIN A.
Ocean Engineering, vol.217, 2020 (SCI-Expanded)
- VI. **A New TOPSIS Methodology Based on Single-Valued Neutrosophic Numbers for Selection of Suitable Roll Stabilizer Type for Motor Yachts**
ŞENER B., Balin A., YILDIZ B., DEMİREL H.
JOURNAL OF SHIP PRODUCTION AND DESIGN, vol.36, no.4, pp.250-258, 2020 (SCI-Expanded)
- VII. **A novel fuzzy multi-criteria decision-making methodology based upon the spherical fuzzy sets with a real case study**
BALIN A.
IRANIAN JOURNAL OF FUZZY SYSTEMS, vol.17, no.4, pp.167-177, 2020 (SCI-Expanded)
- VIII. **Application of fuzzy VIKOR method for the evaluation and selection of a suitable tugboat**
Balin A., ŞENER B., DEMİREL H.

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART M-JOURNAL OF ENGINEERING FOR THE MARITIME ENVIRONMENT, 2019 (SCI-Expanded)

- IX. **AN INTEGRATED FUZZY MCDM MODEL FOR EVALUATION AND SELECTION OF A SUITABLE TUGBOAT**
Balin A., Sener B., Demirel H.
INTERNATIONAL JOURNAL OF MARITIME ENGINEERING, vol.161, 2019 (SCI-Expanded)
- X. **APPLYING A FUZZY-AHP FOR THE SELECTION OF A SUITABLE TUGBOAT BASED ON PROPULSION SYSTEM TYPE**
Cakiroglu G., ŞENER B., Balin A.
BRODOGRADNJA, vol.69, no.4, pp.1-13, 2018 (SCI-Expanded)
- XI. **A FUZZY AHP AND ELECTRE METHOD FOR SELECTING STABILIZING DEVICE IN SHIP INDUSTRY**
DEMİREL H., Balin A., ÇELİK E., ALARÇİN F.
BRODOGRADNJA, vol.69, no.3, pp.61-77, 2018 (SCI-Expanded)
- XII. **A fuzzy dematel model proposal for the cause and effect of the fault occurring in the auxiliary systems of the ships' main engine**
BALIN A., Demirel H., CELIK E., ALARÇİN F.
Transactions of the Royal Institution of Naval Architects Part A: International Journal of Maritime Engineering, vol.160, pp.141-153, 2018 (SCI-Expanded)
- XIII. **A FUZZY MULTI-CRITERIA DECISION MAKING METHODOLOGY BASED UPON THE INTERVAL TYPE-2 FUZZY SETS FOR EVALUATING RENEWABLE ENERGY ALTERNATIVES IN TURKEY**
Balin A., BARAÇLI H.
TECHNOLOGICAL AND ECONOMIC DEVELOPMENT OF ECONOMY, vol.23, no.5, pp.742-763, 2017 (SSCI)
- XIV. **AN EVALUATION APPROACH FOR ELIMINATING THE FAILURE EFFECT IN GAS TURBINE USING FUZZY MULTIPLE CRITERIA**
Balin A., DEMİREL H. H., ALARÇİN F.
INTERNATIONAL JOURNAL OF MARITIME ENGINEERING, vol.158, 2016 (SCI-Expanded)
- XV. **A novel hybrid MCDM model based on fuzzy AHP and fuzzy TOPSIS for the most affected gas turbine component selection by the failures**
Balin A., Demirel H., ALARÇİN F.
JOURNAL OF MARINE ENGINEERING AND TECHNOLOGY, vol.15, no.2, pp.69-78, 2016 (SCI-Expanded)
- XVI. **APPLICATION OF FUZZY ANALYTIC HIERARCHY PROSES FOR ERROR DETECTION OF AUXILARY SYSTEMS OF SHIP MAIN DIESEL ENGINES**
DEMİREL H. H., ÜNLÜGENÇOĞLU K., ALARÇİN F., Balin A.
INTERNATIONAL JOURNAL OF MARITIME ENGINEERING, vol.157, pp.105-111, 2015 (SCI-Expanded)
- XVII. **A HIERARCHICAL STRUCTURE FOR SHIP DIESEL ENGINE TROUBLE-SHOOTING PROBLEM USING FUZZY AHP AND FUZZY VIKOR HYBRID METHODS**
Balin A., Demirel H., ALARÇİN F.
BRODOGRADNJA, vol.66, no.1, pp.54-65, 2015 (SCI-Expanded)
- XVIII. **Modeling Potential Future Energy Demand for Turkey in 2034 by Using an Integrated Fuzzy Methodology**
Balin A., BARAÇLI H.
JOURNAL OF TESTING AND EVALUATION, vol.42, no.6, pp.1466-1478, 2014 (SCI-Expanded)
- XIX. **Fuzzy AHP and Fuzzy TOPSIS integrated hybrid method for auxiliary systems of ship main engines**
ALARÇİN F., Balin A., Demirel H.
JOURNAL OF MARINE ENGINEERING AND TECHNOLOGY, vol.13, no.1, pp.3-11, 2014 (SCI-Expanded)
- XX. **Fuzzy multicriteria selection among cogeneration systems: A real case application**
Alcan P., Balin A., BAŞLIGİL H.
ENERGY AND BUILDINGS, vol.67, pp.624-634, 2013 (SCI-Expanded)

- I. **An Overview of Air Traffic and Effective Air Traffic Control Strategies for Istanbul Airport**
Demirhan İ., Balın A., Okumuş A.
Journal of Transportation and Logistics, vol.6, no.1, pp.107-124, 2021 (Peer-Reviewed Journal)
- II. **Analysis of Strategies to Reduce Air Pollution from Vessels: A Case for the Strait of Istanbul**
BUCAK U., Arslan T., DEMİREL H., Balın A.
JOURNAL OF ETA MARITIME SCIENCE, vol.9, no.1, pp.22-30, 2021 (ESCI)
- III. **A Multi-Criteria Decision-Making Method Based upon Type-2 IntervalFuzzy Sets for Auxiliary Systems of a Ship's Main Diesel Engine**
Balın A.
International Journal of Intelligent Systems and Applications in Engineering, vol.5, no.2, pp.44-51, 2017 (Peer-Reviewed Journal)

Books & Book Chapters

- I. **A Multi-Criteria Decision-Making Methodology Suggestion for Turkey Energy Planning Based Type-2 Fuzzy Sets**
Balın A., Baraçlı H.
in: Decision Making, Fausto Pedro García Márquez,Alberto Pliego Marugán,Mayorkinos Papaelias, Editor, Books on Demand , London, pp.5-16, 2018
- II. **PERFORMANCE COMPARISON OF CCHP SYSTEMS USING DIFFERENT FUZZY MULTI CRITERIADECISION MAKING MODELSFOR ENERGY SOURCES**
Balın A., Alcan P., Başlıgil H.
in: Fuelling the Future Advances in Science and Technologies for Energy Generation Transmission and Storage, A. Mendez-Vilas, Editor, Brown Walker Press, Florida, pp.591-596, 2012

Refereed Congress / Symposium Publications in Proceedings

- I. **Short-term electricity demand forecasting by using a MATLAB-based ANFIS model**
Balın A., SERT M., BESİRLİ İ.
International Conference on Advances in Energy and Environment Research, ICAEER 2016, Guangzhou, China, 12 - 14 August 2016, pp.23-26
- II. **Energy alternatives evaluation in Turkey by using multicriteria decision making methodologies**
Alcan P., Odabasi D., Balın A.
Uncertainty Modelling in Knowledge Engineering and Decision Making - 12th International Fuzzy Logic and Intelligent Technologies in Nuclear Science Conference, FLINS 2016, Roubaix, France, 24 - 26 August 2016, pp.627-631
- III. **THE APPLICATIONS OF ENERGY ALTERNATIVES IN TURKEY USING MULTICRITERIA DECISION MAKING PROCESSES**
Balın A., Alcan P., BAŞLIGİL H.
10th International Conference on Fuzzy Logic and Intelligent Technologies in Nuclear Science (FLINS), İstanbul, Turkey, 26 - 29 August 2012, vol.7, pp.124-130

Metrics

Publication: 28
Citation (WoS): 82
Citation (Scopus): 112
H-Index (WoS): 5

H-Index (Scopus): 5

Non Academic Experience

TÜBİTAK

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Şitoğlu Pazarlama

Business Establishment Private, Sitoglu

Şitoğlu Gıda