

Asst. Prof. Abit BALIN

Personal Information

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Education Information

Doctorate, Yıldız Teknik Üniversitesi, Makina, Endüstri Mühendisliği, Turkey 2010 - 2014

Undergraduate, Yıldız Teknik Üniversitesi, 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, Yıldız Technical University, Endüstri Mühendisliği, Endüstri Mühendisliği, 2014

Postgraduate, Genetik algoritma ile hat dengeleme / Line balancing with genetical algorithms, Yıldız 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

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

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

Research Assistant PhD, Yalova Üniversitesi, Mühendislik Fakültesi, Endüstri Mühendisliği, 2014 - 2016

Research Assistant, Yıldız Teknik Üniversitesi, 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

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **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 (Journal Indexed in SCI)
- II. **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 (Journal Indexed in SCI)
- III. **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 (Journal Indexed in SCI)
- IV. **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 (Journal Indexed in SCI)
- V. **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 (Journal Indexed in SCI)
- VI. **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 (Journal Indexed in SCI)
- VII. **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 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI Expanded)
- IX. **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 (Journal Indexed in SSCI)
- X. **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 (Journal Indexed in SCI)

- XI. **A novel hybrid MCDM model based on fuzzy AHP and fuzzy TOPSIS for the most affected gas turbine component selection by the failures**
Balın A., Demirel H., ALARÇIN F.
JOURNAL OF MARINE ENGINEERING AND TECHNOLOGY, vol.15, no.2, pp.69-78, 2016 (Journal Indexed in SCI)
- XII. **APPLICATION OF FUZZY ANALYTIC HIERARCHY PROSES FOR ERROR DETECTION OF AUXILIARY SYSTEMS OF SHIP MAIN DIESEL ENGINES**
DEMİREL H. H. , ÜNLÜGENÇOĞLU K., ALARÇIN F., Balın A.
INTERNATIONAL JOURNAL OF MARITIME ENGINEERING, vol.157, pp.105-111, 2015 (Journal Indexed in SCI)
- XIII. **A HIERARCHICAL STRUCTURE FOR SHIP DIESEL ENGINE TROUBLE-SHOOTING PROBLEM USING FUZZY AHP AND FUZZY VIKOR HYBRID METHODS**
Balın A., Demirel H., ALARÇIN F.
BRODOGRADNJA, vol.66, no.1, pp.54-65, 2015 (Journal Indexed in SCI)
- XIV. **Modeling Potential Future Energy Demand for Turkey in 2034 by Using an Integrated Fuzzy Methodology**
Balın A., BARAÇLI H.
JOURNAL OF TESTING AND EVALUATION, vol.42, no.6, pp.1466-1478, 2014 (Journal Indexed in SCI)
- XV. **Fuzzy AHP and Fuzzy TOPSIS integrated hybrid method for auxiliary systems of ship main engines**
ALARÇIN F., Balın A., Demirel H.
JOURNAL OF MARINE ENGINEERING AND TECHNOLOGY, vol.13, no.1, pp.3-11, 2014 (Journal Indexed in SCI)
- XVI. **Fuzzy multicriteria selection among cogeneration systems: A real case application**
Alcan P., Balın A., BAŞLIGİL H.
ENERGY AND BUILDINGS, vol.67, pp.624-634, 2013 (Journal Indexed in SCI)

Articles Published in Other Journals

- 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 (National Refreed University 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 (Journal Indexed in 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 (Other Refereed National Journals)

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.

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

Non Academic Experience

Business Establishment Private, Sitoglu