

Arş.Gör. Çağlar Karatug

Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, İstanbul Teknik Üniversitesi, Denizcilik, Deniz Ulaştırma Mühendisliği Anabilim Dalı, Türkiye 2019 - Devam Ediyor

Yüksek Lisans, İstanbul Teknik Üniversitesi, Denizcilik, Deniz Ulaştırma Mühendisliği Anabilim Dalı, Türkiye 2017 - 2019

Lisans, İstanbul Teknik, Denizcilik , Gemi Makinaları İşletme Mühendisliği, Türkiye 2011 - 2016

Araştırma Alanları

Teknik Bilimler, Gemi İnşaatı ve Gemi Makinaları Mühendisliği, Gemi Makinaları

Akademik Unvanlar / Görevler

Araştırma Görevlisi, İstanbul Teknik Üniversitesi, Denizcilik, Gemi Makineleri İşletme Mühendisliği, 2018 - Devam Ediyor

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Determination of a maintenance strategy for machinery systems of autonomous ships**
Karatug Ç., Arslanoğlu Y., Guedes Soares C.
Ocean Engineering, cilt.266, 2022 (SCI-Expanded)
- II. **Feasibility Analysis of the Effects of Scrubber Installation on Ships**
Karatug Ç., Arslanoğlu Y., Guedes Soares C.
Journal of Marine Science and Engineering, cilt.10, sa.12, 2022 (SCI-Expanded)
- III. **A novel methodology for the use of engine simulators as a tool in academic studies**
Ceylan B. O., Karatug Ç., Arslanoğlu Y.
JOURNAL OF MARINE SCIENCE AND TECHNOLOGY, cilt.27, sa.4, ss.1220-1232, 2022 (SCI-Expanded)
- IV. **Development of condition-based maintenance strategy for fault diagnosis for ship engine systems**
Karatug Ç., Arslanoğlu Y.
OCEAN ENGINEERING, cilt.256, ss.111515, 2022 (SCI-Expanded)
- V. **Importance of early fault diagnosis for marine diesel engines: a case study on efficiency management and environment**
Karatug Ç., Arslanoğlu Y.
Ships and Offshore Structures, cilt.17, sa.2, ss.472-480, 2022 (SCI-Expanded)
- VI. **Machine learning based visibility estimation to ensure safer navigation in strait of Istanbul**
Uyanık T., Karatug Ç., Arslanoğlu Y.
Applied Ocean Research, cilt.112, 2021 (SCI-Expanded)
- VII. **Design of a solar photovoltaic system for a Ro-Ro ship and estimation of performance analysis: A case study**

Karatuğ Ç., Durmuşoğlu Y.

Solar Energy, cilt.207, ss.1259-1268, 2020 (SCI-Expanded)

VIII. **Machine learning approach to ship fuel consumption: A case of container vessel**

Uyanık T., Karatuğ Ç., Arslanoğlu Y.

TRANSPORTATION RESEARCH PART D-TRANSPORT AND ENVIRONMENT, cilt.84, 2020 (SCI-Expanded)

Diğer Dergilerde Yayınlanan Makaleler

I. **Risk assessment of sea chest fouling on the ship machinery systems by using both FMEA method and ERS process**

Ceylan B. O., Karatuğ Ç., Ejder E., Uyanık T., Arslanoğlu Y.

Australian Journal of Maritime and Ocean Affairs, 2022 (Scopus)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. **Evaluation of decarbonization strategies for existing ships**

Karatuğ Ç., Arslanoğlu Y., Guedes Soares C.

6th International Conference on Maritime Technology and Engineering, Lisbon, Portekiz, 24 - 26 Mayıs 2022

II. **Maintenance strategies for machinery systems of autonomous ships**

Karatuğ Ç., Arslanoğlu Y., Guedes Soares C.

6th International Conference on Maritime Technology and Engineering, Lisbon, Portekiz, 24 - 26 Mayıs 2022

III. **Ammonia, And Methanol as a Marine Fuel,**

KARATUĞ Ç., CEYLAN B. O., ARSLANOĞLU Y.

4th Global Conference on Innovation in Marine Technology and the Future of Maritime Transportation (GMC'21), Türkiye, 18 - 19 Kasım 2021

IV. **Analysis of Ship Fuel Consumption Through Multiple Linear Regression**

Karatuğ Ç., Arslanoğlu Y.

5th International Mediterranean Science and Engineering Congress (IMSEC 2020), Antalya, Türkiye, 21 - 23 Ekim 2020, ss.268-272

V. **Data-Driven Approach For Estimation Of Marine Vessel's Fuel Oil Consumption**

KARATUĞ Ç., UYANIK T., ARSLANOĞLU Y.

9th International Conference on Advanced Technologies (ICAT'xx20), Türkiye, 10 Ağustos 2020

VI. **The Effect of Ship's Body And Propeller Condition on The Energy Efficiency of The Marine Vessels**

Karatuğ Ç., Arslanoğlu Y.

5th International Mediterranean Science and Engineering Congress (IMSEC 2020), Antalya, Türkiye, 21 Ekim 2020, ss.176-180

VII. **Data Driven Approach for Estimation of Marine Vessel'xxs Fuel Oil Consumption**

KARATUĞ Ç., UYANIK T., ARSLANOĞLU Y.

9th International Conference on Advanced Technologies (ICAT'xx20), İstanbul, Türkiye, 10 - 12 Ağustos 2020

VIII. **Ship Electrical Power Estimation with Machine Learning**

UYANIK T., KARATUĞ Ç., ARSLANOĞLU Y.

9th International Conference on Advanced Technologies (ICAT'xx20), İstanbul, Türkiye, 10 - 12 Ağustos 2020

IX. **A Review of The Use of Solar Energy in Ships**

KARATUĞ Ç., DURMUŞOĞLU Y.

ECRES2018, 25 - 27 Haziran 2018

Desteklenen Projeler

Arslanođlu Y., Karatuđ Ç., Yksekđretim Kurumları Destekli Proje, Gemi Makine Dairesi Bakım İřlemlerinin Verimlilik Analizi, 2021 - Devam Ediyor

Durmuřođlu Y., Karatuđ Ç., Yksekđretim Kurumları Destekli Proje, Yk Gemilerinde Gneř pili Uygulamalarının Fizibilite Arařtırması, 2018 - 2020

Metrikler

Yayın: 18

Atıf (WoS): 57

Atıf (Scopus): 99

H-İndeks (WoS): 3

H-İndeks (Scopus): 5