

Lect. PhD SEMİH YILMAZ

Personal Information

Office Phone: [+90 232 301 8870](tel:+902323018870)

Fax Phone: [+90 232 301 8848](tel:+902323018848)

Email: semih.yilmaz@deu.edu.tr

Web: <https://avesis.deu.edu.tr/semih.yilmaz>

International Researcher IDs

ScholarID: KWuJkYAAAAJ

ORCID: 0000-0002-0791-4476

Publons / Web Of Science ResearcherID: Y-9389-2019

ScopusID: 57210144563

Yoksis Researcher ID: 194794

Certificates, Courses and Trainings

Vocational Training, Denizci Eğitimci, Ulaştırma ve Altyapı Bakanlığı Denizcilik Genel Müdürlüğü, 2023

Vocational Course, Mini Uzaktan Kumandalı Sualtı Cihazı Pilot/Teknisyen Eğitimi, Lenta Marine Underwater Energy Solutions Co., 2023

Vocational Training, Salm ve Baca Gazı Analizörü Eğitimi -TESTO 350 MARITIME-NOx, TEST Teknik End. Sis. Ltd. Şti., 2018

Occupational Health and Safety, Temel İş Sağlığı ve Güvenliği Eğitimi, Dokuz Eylul University Occupational Health Center, 2016

Dissertations

Doctorate, Investigation of the effects of combustion gases and emission characteristics on thermal performance, Dokuz Eylul University, Mühendislik Fakültesi, Makina Mühendisliği Bölümü, 2023

Postgraduate, Yakıt dönüştürücüde dönüştürülmüş doğalgaz yakıtlı katı oksitli yakıt pili dizini modellemesi, Ege University, Fen Bilimleri Enstitüsü, Enerji (YI) (Tezli) (Makine Müh. Abd), 2010

Research Areas

Energy, Thermodynamics, Ship Machines

Academic Titles / Tasks

Lecturer, Dokuz Eylul University, Denizcilik Fakültesi, Gemi Makinaları İşletme Mühendisliği Bölümü(İng), 2013 - Continues

Academic and Administrative Experience

Deputy Head of Department, Dokuz Eylul University, Denizcilik Fakültesi, Gemi Makinaları İşletme Mühendisliği

Courses

STATICS, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022
DYNAMICS, Undergraduate, 2023 - 2024, 2022 - 2023
DYNAMICS, Undergraduate, 2023 - 2024, 2022 - 2023
MARINE ENGINEERING PROJECTS, Undergraduate, 2023 - 2024, 2022 - 2023
DIPLOMA PROJECT, Undergraduate, 2022 - 2023
HEAT TRANSFER, Undergraduate, 2023 - 2024
THERMODYNAMICS, Undergraduate, 2023 - 2024
STATICS, Undergraduate, 2022 - 2023, 2021 - 2022
TECHNICAL DRAWING II, Undergraduate, 2022 - 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Parametric investigation of premixed gas inlet conditions effects on flow and combustion characteristics**
Yılmaz S., Kumlutaş D., Özer Ö., Yücekaya U. A., Avcı H., Cumbul A. Y.
APPLIED ENERGY, vol.353, no.121999, pp.1-16, 2024 (SCI-Expanded)
- II. **Energy and exergy analyses of hydrogen addition in a diesel engine**
Bayramoğlu K., Yılmaz S., Nuran M.
INTERNATIONAL JOURNAL OF EXERGY, vol.37, no.4, pp.377-392, 2022 (SCI-Expanded)
- III. **Prediction of the equilibrium compositions in the combustion products of a domestic boiler**
Yılmaz S., Kumlutaş D., Yücekaya U. A., Cumbul A. Y.
ENERGY, vol.233, 2021 (SCI-Expanded)
- IV. **Emission and performance estimation in hydrogen injection strategies on diesel engines**
BAYRAMOĞLU K., Yılmaz S.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.46, no.57, pp.29732-29744, 2021 (SCI-Expanded)
- V. **Determination of operating parameters of an AUV following a preplanned trajectory using hydrodynamic analysis data**
KAYA K. D., GÖREN A., YILMAZ S., BAYRAMOĞLU K.
OCEAN ENGINEERING, vol.217, 2020 (SCI-Expanded)
- VI. **Numerical investigation of valve lifts effects on performance and emissions in diesel engine**
BAYRAMOĞLU K., YILMAZ S., KAYA K. D.
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.18, pp.287-303, 2019 (SCI-Expanded)

Articles Published in Other Journals

- I. **Numerical and Theoretical Thermal Analysis of Ship Provision Refrigeration System**
BAYRAMOĞLU K., YILMAZ S., KAYA K. D.
JOURNAL OF ETA MARITIME SCIENCE, vol.7, no.2, pp.137-149, 2019 (ESCI)
- II. **3D Printed Solar Catamaran Model Design and Embedded Sensing System Application**
BAYRAMOĞLU K., YILMAZ S., KAYA K. D.
International journal of 3D Printing Technologies and Digital Industry, vol.2, no.3, pp.12-21, 2018 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Development of Modular Buoy for Marine Weather Data Collection**
Kaya K. D., Yilmaz S., Halat B., Maden Ö. F.
2nd INTERNATIONAL SYMPOSIUM SERIES ON GRADUATE RESEARCHES, İzmir, Turkey, 14 - 15 December 2023
- II. **A STUDY ON THERMAL BEHAVIOUR OF A 3D PRINTER AND EXTRUDED MATERIAL WITH THERMAL IMAGING METHOD**
Arhan S., YILMAZ S., KAYA K. D., BAYRAMOĞLU K.
5th INTERNATIONAL CONGRESS ON 3D PRINTING (ADDITIVE MANUFACTURING) TECHNOLOGIES AND DIGITAL INDUSTRY, Antalya, Turkey, 3 - 06 June 2021
- III. **Determination of Performance and Emissions Parameters on Hydrogen Injected a Dual Fuel Diesel Engine**
YILMAZ S., BAYRAMOĞLU K.
15th International Combustion Symposium, Kayseri, Turkey, 17 - 19 September 2020
- IV. **Theoretical Investigation of the Effect of Fuel-Air Mixture Ratios In Boilers and Determination of Emissions**
YILMAZ S., KUMLUTAŞ D., YÜCEKAYA U. A.
22th Congress of Thermal Sciences and Technology, 11 - 14 September 2019
- V. **CFD Analysis of Stern Tube Lubrication System Under Changing Shaft Speed and Oil Types**
BAYRAMOĞLU K., KAYA K. D., YILMAZ S.
III. GLOBAL CONFERENCE ON INNOVATION IN MARINE TECHNOLOGY AND THE FUTURE OF MARITIME TRANSPORTATION, 18 - 19 April 2019
- VI. **Determination Of Working Parameters Of 3d Printers On Various Operation Modes With Different Sensing Systems**
KAYA K. D., YILMAZ S., BAYRAMOĞLU K., GÖKSU B.
4th International Congress on 3D Printing (Additive Manufacturing) Technologies and Digital Industry 2019, Antalya, Turkey, 11 - 14 April 2019
- VII. **Utilization of 3d Printing Technologies in Marine Applications**
BAYRAMOĞLU K., KAYA K. D., YILMAZ S., GÖKSU B.
4th International Congress on 3D Printing (Additive Manufacturing) Technologies and Digital Industry 2019, Antalya, Turkey, 11 - 14 April 2019
- VIII. **A REVIEW ON URBANIZATION, POLLUTION AND BIODIVERSITY IN İZMİR**
SÖKMEN YILMAZ E., YILMAZ S.
II. Uluslararası Şehir Çevre Sağlık Kongresi, Nevşehir, Turkey, 16 - 20 April 2018
- IX. **ESTIMATION OF PROPULSION THRUSTER POWER ON LNG FUELLED MARINE VESSELS WITH ARTIFICIAL NEURAL NETWORKS**
BAYRAKTAR M., GÖKSU B., BAYRAMOĞLU K., YILMAZ S.
7th Global Conference on Global Warming (GCGW-2018), İzmir, Turkey, 24 - 28 June 2018
- X. **A numerical investigation of valve lift effects on marine diesel engine and emission prediction**
BAYRAMOĞLU K., KAYA K. D., YILMAZ S., BAYRAKTAR M., GÖKSU B.
7th Global Conference on Global Warming (GCGW-2018), İzmir, Turkey, 24 - 28 June 2018
- XI. **Numerical Analysis of Diesel Engine Performance and Exhaust Emissions with Diesel-Ethanol Fuel Blends**
Kaya K. D., Bayramoğlu K., Yilmaz S., Nuran M.
7th Global Conference on global warming, İzmir, Turkey, 27 - 28 June 2018
- XII. **Design and Implementation of A Solar Catamaran Model with 3D Printer and Sensor Applications**
KAYA K. D., BAYRAMOĞLU K., YILMAZ S.
3rd International congress on 3D Printing Technologies and Digital Industry, 21 April 2018
- XIII. **Dizel Motorlarda Kullanılan Farklı Yakıt Karışımları için Emisyon Tahmini**
BAYRAMOĞLU K., YILMAZ S., KAYA K. D.
II. Uluslararası Şehir, Çevre, Sağlık Kongresi, 19 - 20 April 2018
- XIV. **Remotely Operated Vehicle (ROV) Design and Fuel Cell Applicability**

YILMAZ S., BAYRAMOĞLU K.

World Electro Mobility Conference 2017, İzmir, Turkey, 4 - 05 May 2017, pp.114-118

XV. Fırın İç Hacmindeki Isıl Düzgünlüğün Kullanıcı Tanımlı Fonksiyonlar İle Parametrik Olarak Sayısal İncelenmesi

KUMLUTAŞ D., YILMAZ S., Özer Ö., YÜCEKAYA U. A.

13. Ulusal Tesisat Mühendisliği Kongresi, Turkey, 19 - 22 April 2017

XVI. Parabolik Güneş Enerjisi Toplayıcıların Isıl Analizi

GÜRLEK G., YILMAZ S., ÜLGEN K.

International Workshop on Special Topics on Polymeric Composites, İzmir, Turkey, 24 - 26 February 2016, vol.1, pp.150-163

XVII. Establishing Physics Laboratory with Electrical and Mechanical Equipment for Maritime Education

FİKİR E., YILMAZ S., KAYA K. D., MICHEAL S.

First International Maritime and Transportation Symposium, Girne, Cyprus (Kktc), 6 - 07 March 2015

XVIII. Benefits and Challenges of a Strong Physics Laboratory Program

YILMAZ S., FİKİR E., Micheal S.

2014 Maritime Education Summit "Campus Culture and Change: Navigating the Challenges Facing Maritime Education", Maine, United States Of America, 17 - 19 October 2014

XIX. YAKIT DÖNÜŞTÜRÜCÜDE DÖNÜŞTÜRÜLMÜŞ DOĞALGAZYAKITLI KATI OKSİTLİ YAKIT PİLİ DİZİNİ MODELLEMESİ

YILMAZ S., ÇOBAN M. T.

X. ULUSAL TESİSAT MÜHENDİSLİĞİ KONGRESİ, İzmir, Turkey, 16 April 2011, pp.1957-1969

XX. Yakıt dönüştürücüde Dönüştürülmüş Doğalgaz Yakıtlı Katı Oksitli Yakıtpili Dizini Modellenmesi

ÇOBAN M. T., YILMAZ S.

X. Ulusal Tesisat Mühendisliği Kongresi, Turkey, 13 - 16 April 2011, pp.1957-1969

Supported Projects

Yılmaz S., Gün İ. B., TUBITAK Project, 2209-B Üniversite Öğrencileri Sanayiye Yönelik Araştırma Projesi, 2022 - 2023

Kumlutaş D., TUBITAK Project, Design of High Capacity and Low Emission Wall Mounted Condensing Gas Fired Central Heating Appliance , 2019 - 2021

Yılmaz S., Halat B., TUBITAK Project, 2209-B Üniversite Öğrencileri Sanayiye Yönelik Araştırma Projesi, 2020 - 2020

Activities in Scientific Journals

Dokuz Eylül Üniversitesi Denizcilik Fakültesi Dergisi, Assistant Editor/Section Editor, 2021 - Continues

Scientific Refereeing

JOURNAL OF MARINE ENGINEERING AND TECHNOLOGY, SCI Journal, November 2023

OCEAN ENGINEERING , SCI Journal, October 2023

Dokuz Eylül Üniversitesi Denizcilik Fakültesi Dergisi, National Scientific Refreed Journal, October 2023

Journal of Thermal Engineering, Journal Indexed in ESCI, July 2023

MARINE SCIENCE AND TECHNOLOGY BULLETIN, National Scientific Refreed Journal, July 2023

International Journal of Computational and Experimental Science and Engineering, Other Indexed Journal, June 2023

Metrics

Publication: 30
Citation (WoS): 44
Citation (Scopus): 40
H-Index (WoS): 3
H-Index (Scopus): 3

Non Academic Experience

Business Establishment Private, TEMESİST Industrial Warehouse & Racking Systems, Project Managamet
Business Establishment Private, MES Klima Ltd. Şti., Project Management
Business Establishment Private, CEFIP Makine Ltd. Şti., Project Management
Business Establishment Private, Prodek Day. Tük Mal. San. ve Tic. Ltd. Şti. , Sales & Marketing