Assoc. Prof. Burak YILDIZ

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International Researcher IDs
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ScopusID: 56735816000
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Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği, Turkey 2012 - 2016
Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği, Turkey 2010 - 2012
Undergraduate, Istanbul Technical University, Gemi İnşaatı Ve Deniz Bilimleri Fakültesi, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği, Turkey 2005 - 2009

Research Areas

Naval Architecture and Marine Engineering, Engineering and Technology

Academic Titles / Tasks

Assistant Professor, Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Marine Engineering Operations, 2017 - Continues
Research Assistant, Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Marine Engineering Operations, 2010 - 2017

Academic and Administrative Experience

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Numerical Prediction of Form Factor and Wave Interference of A Trimaran for Different Outrigger Positions**
Dogrul A., Yıldız B.
China Ocean Engineering, vol.36, no.2, pp.279-288, 2022 (SCI-Expanded)
II. **PREDICTION OF RESIDUAL RESISTANCE OF A TRIMARAN VESSEL BY USING AN ARTIFICIAL NEURAL NETWORK**
Yıldız B.

Brodogradnja, vol.73, no.1, pp.127-140, 2022 (SCI-Expanded)

III. **Numerical roll damping prediction of a planing hull**
Kahramanoglu E., Yildiz B., Cakici F., Yilmaz H.
SHIPS AND OFFSHORE STRUCTURES, vol.16, no.4, pp.363-372, 2021 (SCI-Expanded)

IV. **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., Yıldız B., Balın A.
OCEAN ENGINEERING, vol.217, 2020 (SCI-Expanded)

V. **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., Demirel H.
JOURNAL OF SHIP PRODUCTION AND DESIGN, vol.36, no.4, pp.250-258, 2020 (SCI-Expanded)

VI. **A numerical and experimental study on the outrigger positioning of a trimaran hull in terms of resistance**
Yıldız B., Şener B., Duman S., Datla R.
OCEAN ENGINEERING, vol.198, 2020 (SCI-Expanded)

VII. **NUMERICAL AND EXPERIMENTAL CALCULATION OF ROLL AMPLITUDE EFFECT ON ROLL DAMPING**
YILDIZ B., ŞENER B., YURTSEVEN A., Katayama T.
BRODOGRADNJA, vol.70, no.2, pp.1-15, 2019 (SCI-Expanded)

VIII. **Bilge keel-free surface interaction and vortex shedding effect on roll damping**
YILDIZ B., Katayama T.
JOURNAL OF MARINE SCIENCE AND TECHNOLOGY, vol.22, no.3, pp.432-446, 2017 (SCI-Expanded)

IX. **URANS prediction of roll damping for a ship hull section at shallow draft**
YILDIZ B., ÇAKICI F., KATAYAMA T., YILMAZ H.
JOURNAL OF MARINE SCIENCE AND TECHNOLOGY, vol.21, no.1, pp.48-56, 2016 (SCI-Expanded)

Articles Published in Other Journals

I. **ASSESSMENT OF PURE LOSS OF STABILITY FOR A TURKISH NAVY TANKER**
Yılmazer M. A., Yıldız B.
Journal of Naval Sciences and Engineering, vol.17, no.2, pp.309-341, 2021 (Peer-Reviewed Journal)

II. **Mathematical Model of Roll Decay Motion for a Surfaced Submarine**
Cansız M. Y., Yıldız B.
Gemi ve Deniz Teknolojisi Dergisi, no.219, pp.107-123, 2021 (Peer-Reviewed Journal)

III. **Gemi Kesiti için Yalpa Merkezi Konumunun Yalpa Sönümüne Etkisi**
Yıldız B.
JOURNAL OF ETA MARİTİME SCİENCE, vol.6, no.4, pp.379-391, 2018 (Peer-Reviewed Journal)

IV. **Yalpa Omurgası Genişliğinin Yalpa Sönümüne EtkisininSayısal Olarak İncelenmesi**
YILDIZ B., YILMAZ H.
Gemi ve Deniz teknolojisi, pp.34-45, 2017 (Peer-Reviewed Journal)

V. **EVALUATION OF IMO SECOND GENERATION INTACT STABILITY CRITERIA**
YILDIZ B., YILMAZ H.
JOURNAL OF MARITIME TRANSPORT AND ENGINEERING, vol.2, pp.89-94, 2013 (Peer-Reviewed Journal)

VI. **Aydın M., Bal Ş., Kepçeler T., Gündoğdu O., Şener B., Kınacı Ö. K., Yıldız B., Yılmaz A. İ. Kara ve Deniz Bağlantılı Marmara Ambulans Sistemi (MAS)**
YILDIZ B.
Gemi ve Deniz Teknolojisi, no.190, pp.17-23, 2012 (Non Peer-Reviewed Journal)

VII. **ENGINE ROOM SIMULATOR AND IMPORTANCE OF APPLIED MARITIME EDUCATION**
Ünlügençoğlu K., Yıldız B., Turan E.
TOJSAT : The Online Journal of Science and Technology, vol.1, no.4, pp.10-16, 2011 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **Characteristics of Roll Damping of Pure Car Carrier and Liquefied Natural Gas Carrier and Applicability of Ikeda's Method with some Modifications**
Katayama T., Kankaku M., Yıldız B., Sugimoto K., Fukumoto Y.
1st International Conference on the Stability and Safety of Ships and Ocean Vehicles, Glasgow, United Kingdom, 7 June - 11 September 2021, pp.1-12

II. **Wave Interference Prediction of a Trimaran Using Form Factor**
Duman S., Doğrul A., Yıldız B., Datla R.
HSMV 2020 - Symposium on High Speed Marine Vehicles, Naples, Italy, 15 - 16 October 2020, pp.99-108

III. **Linear Mathematical Model of a Surfaced Submarine**
Cansız M. Y., Yıldız B., Çakıcı F.
2. Uluslararası Akademik Araştırmalar Kongresi, Bolu, Turkey, 17 - 19 February 2020, pp.148-150

IV. **Wave Interference Prediction of a Trimaran Using Form Factor**
DUMAN S., Dogrul A., YILDIZ B., Datla R.
12th International Symposium on High Speed Marine Vehicles (HSMV), ELECTR NETWORK, 15 - 16 October 2020, vol.5, pp.99-108

V. **Numerical Calculations of Resistance and Running Attitude of a Planing Hull**
KAHRAMANOĞLU E., YILDIZ B., YILMAZ H.
INT NAM 2018, İstanbul, Turkey, 24 April 2018, pp.583-594

VI. **NUMERICAL AND EXPERIMENTAL PREDICTION OF ROLL DAMPING FOR A HIGH-SPEED PLANING HULL**
Yıldız B., Kahramanoğlu E., Çakıcı F., Katayama T.
The 11th High Speed Marine Vehicles Symposium, Naples, Italy, 25 October 2017, pp.179-185

VII. **Determination of the Resistance of a Displacement Type Hull Form by means of Different CFD Solvers**
ÇETİN E., ŞENER B., YILDIZ B.
II. Maritime Conference on Innovation in Marine Technology and the Future of Maritime Transportation, 24 - 25 October 2016, vol.1, pp.160-168

VIII. **Effect of Vortex Shedding and Free Surface Interaction onRoll Damping Due to Large Amplitude Roll Motion**
YILDIZ B., YURTSEVEN A., KATAYAMA T.
15th International Ship Stability Workshop, 13 - 15 June 2016

IX. **Crew Comfort Investigation for Vertical and Lateral Responses of a Container Ship**
ÇAKICI F., YILDIZ B., ALKAN A. D.
The 12th International Conference on the Stability of Ships and Ocean Vehicles, GLASKOW, United Kingdom, 14 - 19 June 2015, vol.12, pp.999-1005

X. **Comparative Stability Analysis of a Frigate According to the Different Navy Rules in Waves**
KAHRAMANOĞLU E., YILMAZ H., YILDIZ B.
12th International Conference on the Stability of, Ships and Ocean Vehicles, Glasgow, United Kingdom, 15 June 2015, pp.859-877

XI. **Yaralı Stabilite Kurallarındaki Değişikliklerin Konteyner Gemileri Üzerindeki Etkilerinin İncelenmesi**
Yılmaz H., YILDIZ B.
Gemi İnşaatı ve Deniz Teknolojisi Teknik Kongresi 2012, 01 December 2012

XII. **Mechatronics Engineering Education and Its Importance in Turkey**
KOÇAL T., YILDIZ B., ÜNLÜGENÇOĞLU K.
International Conference on New Horizons in Education 2010 (INTE 2010), Gazimagusa, Cyprus (Kktc), 23 - 25 June 2010, pp.532-536

XIII. **Numerical Estimation and Validation of Shallow Draft Effect on Roll Damping**
YILDIZ B., Umeda J.
International Ship Stability Workshop, Kuala Lumpur 29 September - 01 October

XIV. **A Study on Bilge-keel Roll Damping Component for Shallow Draft**
Umeda J., YILDIZ B.

XV. **A Study on Roll Damping Estimation for Non Periodic Motion**
Umeda J., Hashimoto H., YILDIZ B.
International Ship Stability Workshop, Brest 23-26 September

Supported Projects

YILDIZ B., Other International Funding Programs, Experimental and numerical analysis of roll damping of a high speed trimaran, 2018 - Continues
ŞENER B., YILDIZ B., DUMAN S., Project Supported by Higher Education Institutions, Su üstü muharip gemilerinin parametrik form tasarımı ve manevra performansının sayısal olarak incelenmesi, 2017 - 2020
Çakıcı F., Yılmaz H., Duman S., Doğrul A., Yıldız B., Kahramanoğlu E., Avcı A. G., Demir Ö., Technopark, 92 metre Korvet İçin Gürültü, Hidrodinamik, Yapısal ve Şok Analizler projesinde danışmanlık hizmeti vermek üzere, 2019 - 2019
Çakıcı F., Yılmaz H., Duman S., Doğrul A., Yıldız B., Avcı A. G., Project Supported by Other Private Institutions, 92 metre Korvet İçin Hidrodinamik Analizler projesinde danışmanlık hizmeti vermek üzere, 2019 - 2019
Çakıcı F., Yılmaz H., Doğrul A., Yıldız B., Project Supported by Other Private Institutions, Lojistik Destek Gemisi (LDG) Projesi kapsamında, Gemi Formu ve Takıntıları için Hidrodinamikler Analizler, 2015 - 2015

Metrics

Publication: 35
Citation (WoS): 48
Citation (Scopus): 57
H-Index (WoS): 5
H-Index (Scopus): 5

Scholarships

YURTDIŞI DOKTORA SONRASI ARAŞTIRMA BURSU, TUBITAK, 2017 - Continues
YURTDIŞI DOKTORA ARAŞTIRMA PROGRAMI, YOK, 2013 - Continues

Non Academic Experience

Stevens Institute of Technology
Osaka Prefecture Üniversitesi