

Asst. Prof. Burak YILDIZ

Personal Information

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Education Information

Doctorate, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği, Turkey 2012 - 2016

Postgraduate, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği, Turkey 2010 - 2012

Undergraduate, İstanbul Teknik Üniversitesi, 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, Yıldız Teknik Üniversitesi, Naval Architecture and Maritime Faculty, Department of Marine Engineering Operations, 2017 - Continues

Research Assistant, Yıldız Teknik Üniversitesi, Naval Architecture and Maritime Faculty, Department of Marine Engineering Operations, 2010 - 2017

Academic and Administrative Experience

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., Yıldız B., Balın 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., Demirel H.
JOURNAL OF SHIP PRODUCTION AND DESIGN, vol.36, no.4, pp.250-258, 2020 (Journal Indexed in SCI)
- III. **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 (Journal Indexed in SCI)
- IV. **Numerical roll damping prediction of a planing hull**
Kahramanoglu E., Yıldız B., Cakici F., Yilmaz H.

SHIPS AND OFFSHORE STRUCTURES, 2020 (Journal Indexed in SCI)

- V. **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 (Journal Indexed in SCI)
- VI. **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 (Journal Indexed in SCI)
- VII. **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 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Gemi Kesiti için Yalpa Merkezi Konumunun Yalpa Sönümüne Etkisi**
YILDIZ B.
JOURNAL OF ETA MARİTİME SCİENCE, vol.6, no.4, pp.379-391, 2018 (Other Refereed National Journals)
- II. **Yalpa Omurgası Genişliğinin Yalpa Sönümüne Etkisinin Sayısal Olarak İncelenmesi**
YILDIZ B., YILMAZ H.
Gemi ve Deniz teknolojisi, pp.34-45, 2017 (Other Refereed National Journals)
- III. **EVALUATION OF IMO SECOND GENERATION INTACT STABILITY CRITERIA**
YILDIZ B., YILMAZ H.
JOURNAL OF MARITIME TRANSPORT AND ENGINEERING, vol.2, pp.89-94, 2013 (International Refereed University Journal)
- IV. **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 (National Non-Refereed Journal)
- V. **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 (Refereed Journals of Other Institutions)

Refereed Congress / Symposium Publications in Proceedings

- I. **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
- II. **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
- III. **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
- IV. **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
- V. **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

- VI. **Effect of Vortex Shedding and Free Surface Interaction on Roll Damping Due to Large Amplitude Roll Motion**
YILDIZ B., YURTSEVEN A., KATAYAMA T.
15th International Ship Stability Workshop, 13 - 15 June 2016
- VII. **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
- VIII. **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
- IX. **Yaralı Stabilite Kurallarındaki Değişikliklerin Konteyner Gemileri Üzerindeki Etkilerinin İncelenmesi**
Yılmaz H., YILDIZ B.
Gemi İnşaatı ve Deniz Teknolojisi Teknik Kongresi 2012, 01 December 2012
- X. **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 (Kkct), 23 - 25 June 2010, pp.532-536
- XI. **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
- XII. **A Study on Bilge-keel Roll Damping Component for Shallow Draft**
Umeda J., YILDIZ B.
- XIII. **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 Supported Projects, 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

Citations

Total Citations (WOS):18

h-index (WOS):2

Scholarships

YURTDIŐI DOKTORA SONRASI ARAŐTIRMA BURSUSU, TUBITAK, 2017 - Continues

YURTDIŐI DOKTORA ARAŐTIRMA PROGRAMI, YOK, 2013 - Continues