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Personal Information



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International Researcher IDs
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Publons / Web Of Science ResearcherID: AAC-6124-2021
ScopusID: 57202107589
Yoksis Researcher ID: 152978

Education

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği, Turkey 2011 - 2022
Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği, Turkey 2009 - 2011
Undergraduate, Istanbul Technical University, Gemi İnşaatı Ve Deniz Bilimleri Fakültesi, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği, Turkey 2004 - 2009

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Yüksek Süratli Bir Tekne Formunda İnterseptör ve Stepli Hallerde Hidrodinamik Performansın Parametrik İncelenmesi, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği, 2018
Postgraduate, İze Uyumlu Pervane Dizaynı Ve Askeri Gemiye Uygulanması, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği, 2011

Research Areas

Avesis Research Areas: Marine Sciences and Technology, Naval Architecture and Marine Engineering, Engineering and Technology
WoS Research Areas: Engineering, Computing & Technology (ENG), ENGINEERING, ENGINEERING, OCEAN, ENGINEERING, MARINE, ROBOTICS
Scopus Research Areas: General Engineering, Ocean Engineering

Academic Positions

Assistant Professor, Yildiz Technical University, Naval Architecture and Maritime Faculty, Deparment Of Naval Architecture And Marine Engineering, 2023 - Present
Lecturer, Yildiz Technical University, Naval Architecture and Maritime Faculty, Department of Marine Engineering Operations, 2018 - 2023
Research Assistant, Istanbul Technical University, Gemi İnşaatı Ve Deniz Bilimleri Fakültesi, Gemi İnşaatı Ve Gemi Makineleri Mühendisliği, 2010 - 2017

Academic and Administrative Experience

Deputy Head of Department, Yildiz Technical University, Naval Architecture and Maritime Faculty, Deparment Of Naval Architecture And Marine Engineering, 2024 - Present
Faculty Board Member, Yildiz Technical University, Naval Architecture and Maritime Faculty, Deparment Of Naval Architecture And Marine Engineering, 2024 - Present
Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Yildiz Technical University, Naval Architecture and Maritime Faculty, Department of Marine Engineering Operations, 2022 - Present
Assistant Manager of Research and Application Center, Yildiz Technical University, Naval Architecture and Maritime Faculty, Deparment Of Naval Architecture And Marine Engineering, 2019 - 2021
Gemi Model Deney Uzmanı, Istanbul Technical University, Gemi İnşaatı Ve Deniz Bilimleri, Gemi İnşaatı Ve Gemi Makinaları Mühendisliği, 2010 - 2017

Jury Memberships

Competition, TEKNOFEST, TÜRKİYE TEKNOLOJİ VAKFI, September, 2019

Research Infrastructure Information

Avcı A. G., Yılmaz H., Yüksel Y., Şahin C., Çakıcı F., Hidrodinamik Araştırma Laboratuvarı, June 2022

Articles

I. **Investigation of the optimum longitudinal single transverse step location for a high-speed craft**
Avcı A. G., Barlas B.
BRODOGRADNJA, vol.74, no.3, pp.47-70, 2023 (SCI-Expanded, Scopus)
II. **An experimental investigation of interceptors for a high speed hull**
Avci A. G., Barlas B.
INTERNATIONAL JOURNAL OF NAVAL ARCHITECTURE AND OCEAN ENGINEERING, vol.11, pp.256-273, 2019 (SCI-Expanded, Scopus)
III. **An experimental and numerical study of a high speed planing craft with full-scale validation**
Avci A. G., Barlas B.

Journal of Marine Science and Technology (Taiwan), vol.26, pp.617-628, 2018 (SCI-Expanded, Scopus)

IV. **Hızlı Tekneler için Akıllı Trim Kontrol Interseptör Sistemi**
AVCI A. G., BARLAS B.
Boat Builder Türkiye, no.53, pp.26-30, 2015 (Peer-Reviewed Journal)

V. **Analysing the Hydrodynamic Accelerations of Inflatable Boats**
MEHMET M., AVCI A. G., BARLAS B.
GiDB DERGi, 2015 (Peer-Reviewed Journal)

VI. **Introduction and Concept Design of the AUVTECH OPENROV s Hybrid AUV**
Avcı A. G., Aryan A. J., Avcı A., Söyük K., Toptaş B.
AUVSI & ONR's RoboSub Competition Journal Paper, vol.17, 2014 (Peer-Reviewed Journal)

VII. **Istanbul Technical University Autonomous Underwater Vehicle Introduction and Concept Design of the AUVTECH 2013**
AVCI A. G., ARYAN A. J., BAHADIR M. Ç., KÖKSAL C. S., DEMİR R., YILMAZ M., DEMİR H., GÜREL E.
AUVSI & ONR's Robosub Competition Journal Paper, vol.16, 2013 (Peer-Reviewed Journal)

VIII. **Gemi Onarım Tekniklerine Genel Bakış**
AVCI A. G.
GEMİ VE DENİZ TEKNOLOJİSİ, vol.1, pp.22-29, 2009 (TRDizin)

Books

I. **An Investigation of Fuel Efficiency in High Speed Vessels by Using Interceptors**
AVCI A. G., BARLAS B., ÖLÇER a.
in: Trends and Challenges in Maritime Energy Management, Ölçer A.I, Kitada M, Dalaklis D, Ballini F. (Eds.), Editor, springer, New-York, pp.127-141, 2018

Papers Presented at Peer-Reviewed Scientific Conferences

I. **An Investigation of Fuel Efficiency in High Speed Vessels by Using Interceptors**
AVCI A. G., BARLAS B., ölçer i. a.
International Conference on Maritime Energy Management, Malmö, Sweden, 17 - 19 February 2017, (Full Text)

II. **An Experimental Investigation of Shock and Accelerations on Inflatable Boats**
AVCI A. G., BARLAS B., Merdivenci M. S.
1st International Congress on Ship and Marine Technology, İstanbul, Turkey, 8 - 09 December 2016, (Full Text)

III. **The Usage of Interceptors in High Speed Crafts**
AVCI A. G., BARLAS B.
1st International Congress on Ship and Marine Technology, İstanbul, Turkey, 8 - 09 December 2016, (Full Text)

IV. **A PRACTICAL APPLICATION FOR TRIM AND SINKAGE MEASUREMENTS FOR HIGH SPEED MARINE VESSELS BY USING AN INERTIAL MEASUREMENT UNIT AND AN ARDUINO BOARD**
AVCI A. G., BARLAS B.
4th International Conference on Advanced Model Measurement Technology for the Maritime Industry (AMT 15), İstanbul, Turkey, 28 - 30 September 2015, (Full Text)

V. **INTRODUCTION AND CONCEPT DESIGN OF THE AUVTECH ISTANBUL TECHNICAL UNIVERSITY AUTONOMOUS UNDERWATER VEHICLE**
Avcı A. G., Sarıoğlu B. S.
7th International Advanced Technologies Symposium, İstanbul, Turkey, 30 October - 01 November 2013, (Full Text)

VI. **İSTANBUL TEKNİK ÜNİVERSİTESİ "AUVTECH" OTONOM SUALTI ARACI KONSEPT DİZAYNI**
Avcı A. G., Sarıoğlu B. S.
GEMİ İNŞAATI VE DENİZ TEKNOLOJİSİ TEKNİK KONGRESİ 2012, İstanbul, Turkey, 13 - 14 December 2012, pp.343-354, (Full Text)

VII. **A Numerical Study on Prediction of Noise Characteristics Generated By a Propeller**
Özden M. C., Avcı A. G., Korkut E.
10th International Conference on Hydrodynamics – ICHD2012, Sankt-Peterburg, Russia, 1 - 04 October 2012, (Full Text)

VIII. **Wake Adapted Propeller Design Application to Navy Ships**
AVCI A. G., KORKUT E.
1st international Symposium on Naval Architecture and Maritime, İstanbul, Turkey, 24 - 25 October 2011, (Full Text)

Funded Projects

Avcı A. G., Yılmaz H., Çakıcı F., Duman S., Şener B., Technopark, 76 M OPV (Offshore Patrol Vessel) Teknesi Hidrodinamik Analizleri, 2022 - 2022
Avcı A. G., Şener B., Yurtseven A., Koçal T., Technopark, 85 M Petrol Tankerinin Hidrodinamik Analizleri, 2021 - 2021
Avcı A. G., Yılmaz H., Çakıcı F., Technopark, 24 m Bir Römorkör için Hidrodinamik Analizleri, 2020 - 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
Avcı A. G., Akyıldız H., Project Supported by Higher Education Institutions, BAP Research Project, Yelkenli teknelerde değişik salma tasarımlarının tekne hareketlerine etkisinin incelenmesi, 2015 - 2017
Avcı A. G., Barlas B., Project Supported by Higher Education Institutions, BAP PhD, Yüksek Süratli Teknelerde Trim Düzenleyiciler ile Hidrodinamik Performansın Parametrik İncelenmesi, 2015 - 2017
Avcı A. G., TUBITAK Project, 1512 - Progressive Support Program for Entrepreneurship, Tekneler için Akıllı Denge (Stabilizasyon) ve Yakıt Tasarruf Cihazı, 2014 - 2015
Korkut E., Danışman D. B., TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, A Numerical Study on Prediction of Noise Characteristics Generated By a Propeller, 2012 - 2014

Peer Reviews in Scientific Publications

OCEAN ENGINEERING, SCI Journal, May 2023
OCEAN ENGINEERING, SCI Journal, February 2023
OCEAN ENGINEERING, SCI Journal, August 2022
OCEAN ENGINEERING, SCI Journal, January 2022
OCEAN ENGINEERING, SCI Journal, September 2021
OCEAN ENGINEERING, SCI Journal, January 2021
OCEAN ENGINEERING, SCI Journal, October 2020

Metrics

Publication: 20
Citation (WoS): 47
Citation (Scopus): 77
H-Index (WoS): 2
H-Index (Scopus): 2

Scholarships

2016 Yılı 2214-A Yurt Dışı Araştırma Bursu, TUBITAK, 2016 - 2017

Entrepreneurship Activities

Limited, NAVALTEK ARGE MÜHENDİSLİK SAN. TİC. LTD., 24 March 2014, Co-Founder

Non Academic Experience

Business Establishment Private, Navaltek Arge Mühendislik Ltd
NAVALTEK ARGE MÜHENDİSLİK SANAYİ VE TİİCARET LİMİTED ŞİRKETİ, MÜDÜR
Business Establishment Private, Bureau Veritas Türkiye
Business Establishment Private, Desan Tersanesi