

Asst. Prof.  
Ahmet  
Gültekin AVCI



### Personal Information

**Fax Phone:** [+90 212 383 2989](tel:+902123832989)

**Email:** [agavci@yildiz.edu.tr](mailto:agavci@yildiz.edu.tr)

**Other Email:**

[ahmetgultekinavci@gmail.com](mailto:ahmetgultekinavci@gmail.com)

**Web:**

<https://avesis.yildiz.edu.tr/agavci>

**Address:** YTÜ Yıldız Kampüsü, T  
BLOK, 1. KAT, 34349

Beşiktaş/İstanbul



### International Researcher IDs

ScholarID: JceAeDwAAAAJ

ORCID: 0000-0003-4338-473X

Publons / Web Of Science

ResearcherID: AAC-6124-2021

ScopusID: 57202107589

Yoksis Researcher ID: 152978

### Education Information

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

Marine Sciences and Technology, Naval Architecture and Marine Engineering, Engineering and Technology

## Academic Titles / Tasks

Assistant Professor, Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Naval Architecture And Marine Engineering, 2023 - Continues

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, Department Of Naval Architecture And Marine Engineering, 2024 - Continues

Faculty Board Member, Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Naval Architecture And Marine Engineering, 2024 - Continues

Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Marine Engineering Operations, 2022 - Continues

Assistant Manager of Research and Application Center, Yildiz Technical University, Naval Architecture And Maritime Faculty, Department 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

## Published journal articles indexed by SCI, SSCI, and AHCI

- 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)
- II. **An experimental investigation of interceptors for a high speed hull**  
Avcı A. G., Barlas B.  
INTERNATIONAL JOURNAL OF NAVAL ARCHITECTURE AND OCEAN ENGINEERING, vol.11, pp.256-273, 2019 (SCI-Expanded)
- III. **An experimental and numerical study of a high speed planing craft with full-scale validation**  
Avcı A. G., Barlas B.  
Journal of Marine Science and Technology (Taiwan), vol.26, pp.617-628, 2018 (SCI-Expanded)

## Articles Published in Other Journals

- I. **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)
- II. **Analysing the Hydrodynamic Accelerations of Inflatable Boats**  
MEHMET M., AVCI A. G., BARLAS B.  
GİDB DERGİ, 2015 (Peer-Reviewed Journal)
- III. **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)
- IV. **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)
- V. **Gemi Onarım Tekniklerine Genel Bakış**  
AVCI A. G.  
GEMİ VE DENİZ TEKNOLOJİSİ, vol.1, pp.22-29, 2009 (Peer-Reviewed Journal)

## Books & Book Chapters

- 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

## Refereed Congress / Symposium Publications in Proceedings

- 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
- 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
- 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
- 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
- V. **INTRODUCTION AND CONCEPT DESIGN OF THE AUVTECH ISTANBUL TECHNICAL UNIVERSITY AUTONOMOUS UNDERWATER VEHICLE**  
Avcı A. G., Sarioğlu B. S.  
7th International Advanced Technologies Symposium, İstanbul, Turkey, 30 October - 01 November 2013
- VI. **İSTANBUL TEKNİK ÜNİVERSİTESİ "AUVTECH" OTONOM SUALTI ARACI KONSEPT DİZAYNI**  
Avcı A. G., Sarioğlu B. S.  
GEMİ İNŞAATI VE DENİZ TEKNOLOJİSİ TEKNİK KONGRESİ 2012, İstanbul, Turkey, 13 - 14 December 2012, pp.343-354
- 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
- VIII. **Wake Adapted Propeller Design Application to Navy Ships**  
AVCI A. G., KORKUT E.

## Supported Projects

ALKAN A. D., GÖKMEN M., KURT H., AKPINAR B., ATASAYAN E., AVCI A. G., UĞUR M. A., ÖZLÜ K. E., DEMİR Ö. C., KARABÜBER A. K., Project Supported by Higher Education Institutions, Bir Konteyner Gemisi Modelinin Yapay Zekâ Destekli bir Sistem Tanımlama Algoritması Yardımıyla Manevra Matematiksel Modelinin Geliştirilmesi ve Buna Yönelik Manevra Havuzu ve Gölette Yapılacak Deneyleri ile Manevra Performansının Tahmini, 2022 - Continues

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, Yelkenli teknelerde değişik salma tasarımlarının tekne hareketlerine etkisinin incelenmesi, 2015 - 2017

Avcı A. G., Barlas B., Project Supported by Higher Education Institutions, Yüksek Süratli Teknelerde Trim Düzenleyiciler ile Hidrodinamik Performansın Parametrik İncelenmesi, 2015 - 2017

Avcı A. G., TUBITAK Project, Tekneler için Akıllı Denge (Stabilizasyon) ve Yakıt Tasarruf Cihazı, 2014 - 2015

Korkut E., Danışman D. B., TUBITAK Project, A Numerical Study on Prediction of Noise Characteristics Generated By a Propeller, 2012 - 2014

## Scientific Refereeing

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: 18

Citation (WoS): 4

Citation (Scopus): 50

H-Index (WoS): 1

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 TİCARET LİMİTED ŞİRKETİ

Business Establishment Private, Bureau Veritas Türkiye

Business Establishment Private, Desan Tersanesi