

## Asst. Prof. Taner OŐUN

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: AAD-6474-2019

ScopusID: 57191173284

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### Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Turkey 2012 - 2019

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Turkey 2010 - 2012

Undergraduate, Yildiz Technical University, Naval Architecture And Maritime Faculty, Gemi İnŐaatı Ve Gemi Makineleri MühendisliĐi, Turkey 2006 - 2010

### Research Areas

Naval Architecture and Marine Engineering, Ship Hydromechanics, Engineering and Technology

### Academic Titles / Tasks

Assistant Professor, Yildiz Technical University, Naval Architecture And Maritime Faculty, 2021 - Continues

Research Assistant, Yildiz Technical University, Naval Architecture And Maritime Faculty, Department Of Naval Architecture And Marine Engineering, 2011 - 2021

### Academic and Administrative Experience

Deputy Head of Department, Yildiz Technical University, 2021 - 2022

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

- Four-quadrant propeller hydrodynamic performance mapping for improving ship motion predictions**  
OŐUN T., ESENKALAN M., Kınacı Ö. K.  
Brodogradnja, vol.75, no.3, 2024 (SCI-Expanded)
- BEM modelling of a hydrodynamic lifting surface working in ground proximity**  
OŐUN T., ÖZDEMİR Y. H.  
Engineering Analysis with Boundary Elements, vol.159, pp.192-200, 2024 (SCI-Expanded)

- III. **Comparative study on ship wave making resistance via viscous and IBEM solvers**  
ÖZDEMİR Y. H., ÇOŞGUN T., Barlas B.  
OCEAN ENGINEERING, vol.241, 2021 (SCI-Expanded)
- IV. **Numerical investigation of marine propeller Underwater Radiated Noise using acoustic analogy part 1: The influence of grid resolution**  
Sezen S., Çoşgun T., Yurtseven A., Atlar M.  
Ocean Engineering, vol.220, 2021 (SCI-Expanded)
- V. **Numerical investigation of marine propeller underwater radiated noise using acoustic analogy Part 2: The influence of eddy viscosity turbulence models**  
Sezen S., Çoşgun T., Yurtseven A., Atlar M.  
Ocean Engineering, vol.220, 2021 (SCI-Expanded)
- VI. **Wave field generated by finite-span hydrofoils operating beneath a free surface**  
ÖZDEMİR Y. H., ÇOŞGUN T., Barlas B.  
Brodogradnja, vol.72, no.1, pp.145-167, 2021 (SCI-Expanded)
- VII. **A numerical application to predict the resistance and wave pattern of kriso container ship**  
Özdemir Y. H., Çoşgun T., Doğrul A., Barlas B., Barlas B.  
Brodogradnja, vol.67, no.2, pp.47-65, 2016 (SCI-Expanded)

### Articles Published in Other Journals

- I. **Combined Effects of Axial Flow and High System Rotation on the Fluid Dynamics of Taylor-Couette-Poiseuille Flow**  
Çoşgun T., Vardar N.  
JOURNAL OF ETA MARITIME SCIENCE, vol.12, no.3, 2024 (ESCI)
- II. **Investigation of Pitch and Heave Motion by Using CFD**  
Ozdemir Y. H., ÇOŞGUN T.  
Gemi ve Deniz Teknolojisi, no.223, pp.92-116, 2023 (Peer-Reviewed Journal)
- III. **The Influence of Turbulence Models on the Numerical Modelling of a 3D Wing in Ground Effect**  
ÖZDEMİR Y. H., ÇOŞGUN T.  
Avrupa Bilim ve Teknoloji Dergisi, no.43, 2022 (Peer-Reviewed Journal)
- IV. **Numerical Self-Propulsion Assessment of a Generic Submarine Model at Various Forward Speeds**  
ÇOŞGUN T.  
JOURNAL OF ETA MARITIME SCIENCE, vol.9, no.3, pp.192-199, 2021 (ESCI)
- V. **Hidrofoilli Teknelerde Kullanılan Su Altı Kanat Yapılarındaki Serbest Yüzey Etkileşimlerinin Sınır Elemanları Yöntemi ile İncelenmesi**  
Özdemir Y. H., Çoşgun T.  
European Journal of Science and Technology, no.20, pp.572-580, 2020 (Peer-Reviewed Journal)
- VI. **The Influence of Bottom Geometry on Turbulent Flow Field in a Lid-Driven Cavity**  
Yurtseven A., Çoşgun T., Vardar N.  
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, vol.22, no.3, pp.531-543, 2019 (ESCI)
- VII. **THE NUMERICAL INVESTIGATION OF HIGH SPEED TRAIN-TUNNEL INTERACTION AT ENTRANCE AND EXIT**  
Yurtseven A., Çoşgun T., Vardar N.  
International Scientific Journal Trans Motauto World, vol.3, no.3, pp.135-137, 2018 (Peer-Reviewed Journal)
- VIII. **A NUMERICAL INVESTIGATION OF THE FLOW IN WATER JET NOZULES**  
Bilir A. Ç., Doğrul A., Çoşgun T., Yurtseven A., Vardar N.  
JOURNAL OF THERMAL ENGINEERING, vol.2, no.5, pp.907-912, 2016 (ESCI)

## Refereed Congress / Symposium Publications in Proceedings

- I. **Effect of propulsion model on the free running simulations of a self-propelled submarine**  
ESENKALAN M., ÇOŞGUN T., KINACI Ö. K.  
Global Maritime Congress (GMC'24), İstanbul, Turkey, 20 - 21 May 2024
- II. **Resistance Characteristics of KCS Model Advancing in a Shallow Channel**  
Fidan G., DOĞRUL A., ÇOŞGUN T.  
Global Maritime Congress (GMC 24), İstanbul, Turkey, 20 - 21 May 2024
- III. **CFD Study on the Hydrodynamics of a Submarine Model Operating Near a Free-Surface**  
ÇOŞGUN T., ÖZDEMİR Y. H.  
1st International Conference on Recent and Innovative Results in Engineering and Technology, Konya, Turkey, 16 August 2023, pp.98-102
- IV. **RANS-DES Comparison on the Numerical Modelling of a Downforce Generating Wing Moving over a Solid Surface**  
ÖZDEMİR Y. H., ÇOŞGUN T.  
5th International Conference on Applied Engineering and Natural Sciences, Konya, Turkey, 10 July 2023, pp.471-475
- V. **Yer Etkisindeki Bir Kanatın Aerodinamik Yapısının HAD ile incelenmesi**  
ÖZDEMİR Y. H., ÇOŞGUN T.  
4th International Conference on Applied Engineering and Natural Sciences (ICAENS 2022), Turkey, 10 November 2022
- VI. **Zemin Yakınında Çalışan Bir Denizaltının Direnç Karakteristiklerinin HAD Yardımıyla İncelenmesi**  
ÇOŞGUN T.  
2. Uluslararası Lisansüstü Çalışmalar Kongresi (IGSCONG'22), Turkey, 08 June 2022
- VII. **URANS SIMULATIONS OF FREE SURFACE PIERCING NACA 0024 HYDROFOIL**  
Gönüleri R. K., Çoşgun T., Can U., Yurtseven A., Vardar N.  
5th International Conference on Advances in Mechanical Engineering (ICAME 2019), İstanbul, Turkey, 17 - 19 December 2020
- VIII. **URANS SIMULATIONS OF FREE SURFACE PIERCING NACA 0024 HYDROFOIL**  
rıza kaan g., ÇOŞGUN T., uğur c., YURTSEVEN A., VARDAR N.  
5TH INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, İstanbul, Turkey, 17 - 19 December 2019
- IX. **TÜRBÜLANSLI HALKASAL AKIMLARDA İÇ SİLİNDİR DÖNÜŞÜNÜN ETKİLERİ**  
ÇOŞGUN T., YURTSEVEN A., VARDAR N.  
ULIBTK'19 22th Congress of Thermal Sciences and Technology, 11 - 14 September 2019
- X. **Yüzey Üzerine Eklenen Çıkıntıların Isı Transferi Performansına Etkisinin Sayısal Olarak İncelenmesi /**  
YURTSEVEN A., ÇOŞGUN T., VARDAR N.  
ULIBTK'19 22th Congress of Thermal Sciences and Technology, 11 - 14 September 2019
- XI. **An URANS CFD Study of Wind Flow Around a Bridge Section**  
YONAR F., ÖZDEMİR Y. H., ÇOŞGUN T.  
4th Eurasian Conference on Civil and Environmental Engineering (ECOCEE), 17 - 18 June 2019, pp.782-788
- XII. **NUMERICAL INVESTIGATION OF CANAL EFFECT ON SHIP RESISTANCE IN MODEL SCALE**  
DOĞRUL A., ÇOŞGUN T.  
4th INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, 19 - 21 December 2018
- XIII. **2-D POTENTIAL FLOW AROUND NACA 4412 AIRFOIL**  
Özdemir Y. H., Çoşgun T.  
4th International Conference on Advances in Mechanical Engineering (ICAME 2018), İstanbul, Turkey, 19 - 21 December 2018, pp.1641-1646
- XIV. **The Numerical Investigation of High Speed Train-Tunnel Interactions**  
YURTSEVEN A., ÇOŞGUN T., VARDAR N.  
XXVI International Scientific Conference on Transport, Road Building, Agricultural, Hoisting & Hauling and Military Technics and Technologies, Burgas, Bulgaria, 27 June 2018, vol.2018, no.2, pp.193

- XV. **A CFD STUDY OF SEPARATING REATTACHING FLOWS**  
ÇOŞGUN T., YURTSEVEN A., VARDAR N.  
ICETI International Conference on Engineering Technology and Innovation, Budapeşte, Hungary, 07 March 2018, pp.97
- XVI. **EFFECT OF RIBBED SURFACE ON HEAT TRANSFER ON TURBULENT FLOW OVER A FLAT PLATE**  
YURTSEVEN A., ÇOŞGUN T., VARDAR N.  
3rd INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2017, İstanbul, Turkey, 19 December 2017, pp.1
- XVII. **Ground effect or grounding: Which happens when?**  
kınacı ö. k., ÇOŞGUN T., YURTSEVEN A., VARDAR N.  
17th International Congress of the International Maritime Association of the Mediterranean, Lisboa, Portugal, 09 October 2017, pp.1
- XVIII. **Effect of Sea Water Usage in Marine Lubrication Applications**  
ÇOŞGUN T., YURTSEVEN A., VARDAR N.  
BALKANTRIB17 9th International CONFERENCE ON TRIBOLOGY, Nevşehir, Turkey, 13 September 2017, pp.312-319
- XIX. **Kapalı Mekanlarda Havalandırma ve Kirletici Gaz Tahliyesinin Kısmi Kapak Etkili Hücre Akışı Modeliyle Sayısal Analizi**  
YURTSEVEN A., ÇOŞGUN T., VARDAR N.  
XX. ULUSAL MEKANİK KONGRESİ, Bursa, Turkey, 5 - 09 September 2017
- XX. **KAPALI MEKANLARDA HAVALANDIRMA VE KİRLETİCİ GAZ TAHLİYESİNİN KISMİ KAPAK ETKİLİ HÜCRE AKIŞI MODELİYLE SAYISAL ANALİZ**  
YURTSEVEN A., ÇOŞGUN T., VARDAR N.  
XX. ULUSAL MEKANİK KONGRESİ, Bursa, Turkey, 05 September 2017, pp.2
- XXI. **3-B Taylor-Couette-Poiseuille Akışlarında Doğrusal Akım Etkisinin Nümerik Modellenmesi**  
ÇOŞGUN T., YURTSEVEN A., VARDAR N.  
XX. ULUSAL MEKANİK KONGRESİ, Bursa, Turkey, 5 - 09 September 2017
- XXII. **3-B TAYLOR-COUPETTE-POISEUILLE AKIŞLARINDA DOĞRUSAL AKIM ETKİSİNİN NÜMERİK MODELLENMESİ**  
ÇOŞGUN T., YURTSEVEN A., VARDAR N.  
XX. ULUSAL MEKANİK KONGRESİ, Bursa, Turkey, 05 September 2017, pp.1
- XXIII. **Sayısal Akışkanlar Dinamiğinde Yüksek Başarımli Hesaplama 3 Boyutlu Kapak Etkili Hücre İçi Akışı**  
YURTSEVEN A., ÇOŞGUN T., VARDAR N.  
1. Uluslararası Gemi ve Deniz Teknolojisi Kongresi (GMO-SHIPMAR), Turkey, 8 - 09 December 2016
- XXIV. **SAYISAL AKIŞKANLAR DİNAMİĞİNDE YÜKSEK BAŞARIMLI HESAPLAMA: 3 BOYUTLU KAPAK ETKİLİ HÜCRE İÇİ AKIŞI**  
YURTSEVEN A., ÇOŞGUN T., VARDAR N.  
1. Uluslararası Gemi ve Deniz Teknolojisi Kongresi (GMO-SHIPMAR), İstanbul, Turkey, 08 December 2016, pp.1
- XXV. **Kapak etkili hücre içindeki akışta yüzey yapısı etkisinin 3 boyutlu sayısal analizi**  
YURTSEVEN A., ÇOŞGUN T., VARDAR N.  
1st International Mediterranean Science and Engineering Congress (IMSEC 2016), Adana, Turkey, 26 October 2016, pp.4452-4458
- XXVI. **On the form factor prediction of a displacement type vessel JBC case**  
Can U., Topal İ. H., Doğrul A., Çoşgun T., Vardar N.  
International Conference on Advances in Mechanical Engineering (ICAME 2016), İstanbul, Turkey, 10 - 13 May 2016
- XXVII. **Uncertainty Analysis in Computational Fluid Dynamics Problems**  
ÇOŞGUN T., YURTSEVEN A., VARDAR N.  
International Conference on Advances in Mechanical Engineering (ICAME 2016), Turkey, 10 - 13 May 2016
- XXVIII. **UNCERTAINTY ANALYSIS IN COMPUTATIONAL FLUID DYNAMICS PROBLEMS**  
ÇOŞGUN T., YURTSEVEN A., VARDAR N.

- CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING ISTANBUL 2016 – ICAME2016, 11 - 13 May 2016
- XXIX. **A RANS Based Numerical Study of Turbulent Flows in Rotating Annular Channels**  
Çoşgun T., Yurtseven A., Doğrul A., Vardar N.  
International Conference on Advances in Mechanical Engineering, İstanbul, Turkey, 13 - 15 May 2015, pp.1-4
- XXX. **A NUMERICAL INVESTIGATION OF THE FLOW IN WATER JET NOZZLES**  
AHMET ÇAĞRI B., DOĞRUL A., ÇOŞGUN T., YURTSEVEN A., VARDAR N.  
INTERNATIONAL CONFERENCE ON ADVANCES IN MECHANICAL ENGINEERING, 13 - 15 May 2015
- XXXI. **A RANS Based Numerical Study of Trubulent Flows in Rotating Annular Channels**  
ÇOŞGUN T., YURTSEVEN A., VARDAR N.  
International Conference on Advances in Mechanical Engineering, İstanbul, Turkey, 13 - 05 May 2015
- XXXII. **Investigation of Electronically Controlled Steam Injection to Reduce NOx Emissions of DI Diesel Engine Running with Biodiesel**  
Çoşgun T., Parlak A., Ayhan V., Cesur İ.  
Urban Sustainability, Cultural Sustainability, Green Development, Green Structures and Clean Cars (Uscudar '12), Barcelona, Spain, 17 - 19 October 2012, pp.1-5
- XXXIII. **Investigation of Electronically Controlled Steam Injection to Reduce NOx Emissions of DI Diesel Engine Running with Biodiesel**  
ÇOŞGUN T., PARLAK A., ayhan v., CESUR İ.  
Urban Sustainability, Cultural Sustainability, Green Development, Green Structures and Clean Cars (Uscudar '12), Barcelona, Spain, 17 - 19 October 2012
- XXXIV. **An Investigation on Waste Management Model of Ships with Life Cycle Assessment**  
Bilgili L., Çoşgun T., Çelebi U. B.  
Global Conference on Global Warming (GCGW-2012), İstanbul, Turkey, 8 - 12 July 2012, pp.873-877
- XXXV. **Emission Reduction Methods for Environmentally Friendly Ships**  
Bilgili L., Çoşgun T., Özdamar G., Çelebi U. B.  
Global Conference on Global Warming (GCGW'12), İstanbul, Turkey, 8 - 12 July 2012, pp.1014-1018
- XXXVI. **Electrical Electronic and Control Education in Marine Engineering Operations A Novel Educational Model for Turkey**  
KÖKKÜLÜNK G., ÇOŞGUN T., AKDOĞAN E.  
1st Int. Symposium. on Naval Architecture and Maritime, İstanbul, Turkey, 2 - 04 October 2011

## Supported Projects

Özdemir Y. H., Çoşgun T., Barlas B., Project Supported by Higher Education Institutions, Batmış yarı batmış karmaşık geometriler etrafındaki akışın hesaplamalı akışkanlar dinamiği yöntemleri kullanılarak incelenmesi ve potansiyel akış temelli yeni bir yazılım geliştirilmesi, 2019 - 2020

GÜZEL B., ÇOŞGUN T., Project Supported by Higher Education Institutions, Non-Newtonien Bir Akışkan Olan Kömür Çamurunun Boru İçerisindeki Akışının Deneysel ve Nümerik İncelenmesi, 2013 - 2017

GÜNER M., ÇOŞGUN T., Project Supported by Higher Education Institutions, Zemin Etkisiyle Çalışan Yüksek Hızlı Bir Prototip Teknenin (WIG) Dizaynı, 2013 - 2017

ÜST Y., ÇOŞGUN T., Project Supported by Higher Education Institutions, Miller &#8211; Dizel Çevrimiyle Çalışan Bir Motorun Performans Karakteristiklerinin Araştırılması, 2011 - 2013

PARLAK A., ÇOŞGUN T., Project Supported by Higher Education Institutions, Su Buharı Enjeksiyonlu Bir Dizel Motorunda Egzoz Gazları Geri Dolaşımının (EGR) NOx Emisyonlarına ve Performansa Etkilerinin Deneysel Olarak İncelenmesi, 2011 - 2013

## Activities in Scientific Journals

SHIPS AND OFFSHORE STRUCTURES, Editor, 2024 - Continues

## **Metrics**

Publication: 52

Citation (WoS): 17

Citation (Scopus): 102

H-Index (WoS): 1

H-Index (Scopus): 4