

## **Res. Asst. Gizem Kayışoğlu**

### **Personal Information**

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### **International Researcher IDs**

ORCID: 0000-0003-2730-9780

Publons / Web Of Science ResearcherID: ABF-5625-2020

ScopusID: 57221682499

Yoksis Researcher ID: 265859

### **Education Information**

Doctorate, İstanbul Technical University, Denizcilik, Deniz Ulaştırma İşletme Mühendisliği, Turkey 2019 - 2023

Postgraduate, İstanbul Technical University, Denizcilik, Deniz Ulaştırma İşletme Mühendisliği, Turkey 2016 - 2019

Undergraduate Double Major, İstanbul Technical University, Elektrik-Elektronik, Elektronik Ve Haberleşme Mühendisliği, Turkey 2011 - 2019

Undergraduate, İstanbul Technical University, Denizcilik, Deniz Ulaştırma İşletme Mühendisliği, Turkey 2011 - 2016

### **Foreign Languages**

English, C1 Advanced

### **Certificates, Courses and Trainings**

Vocational Training, Journal of ETA Maritime Science Webinar Serisi - Referans Yönetim Sistemi, Gemi Makineleri İşletme Mühendisleri Odası, 2021

Other, YAKAMOZ 2021: IV. Deniz VE Kadın Sempozyumu, Gemi Makineleri İşletme Mühendisleri Odası, 2021

Quality Management, Süreç Yönetimi Bilgilendirme Eğitimi, İstanbul Technical University, 2020

Quality Management, Kalite Bilişimlendirme ve Bilgilendirme Eğitimi, İstanbul Technical University, 2020

Cyber Security, Denizcilik Siber Güvenlik Farkındalık Semineri, Türk Uzakyol Gemi Kaptanları Derneği, 2017

Cyber Security, Cybersecurity Solutions to an Emerging Problem, ABS Seminar, 2017

Cyber Security, Ethical Hacker-CEH V9 Education, Bilginç IT Academy, 2017

Cyber Security, Siber Güvenliğe Giriş Eğitimi, Ağ Yöneticileri Derneği, 2017

Other, YAKAMOZ 2017: Deniz ve Kadın Sempozyumu, Gemi Makineleri İşletme Mühendisleri Odası, 2017

Vocational Training, II.Global Conference on Innivation in Marine Technology and Future of Maritime Transportation, Global Maritime Conference 2016, Gemi Makineleri İşletme Mühendisleri Odası, 2016

Logistics, Forum Logistics Panel, Yeditepe University, 2016

Other, YAKAMOZ2016: Deniz ve Kadın Sempozyumu, Gemi Makineleri İşletme Mühendisleri Odası, 2016

### **Dissertations**

Postgraduate, Antecedents and consequences of cyber security awareness: A case study for maritime sector, İstanbul Technical University, Denizcilik, Deniz Ulaştırma İşletme Mühendisliği, 2019

## **Research Areas**

Engineering and Technology

## **Academic Titles / Tasks**

Research Assistant, İstanbul Technical University, Denizcilik, Deniz Ulaştırma İşletme Mühendisliği, 2017 - Continues

## **Academic and Administrative Experience**

Araştırma Görevlisi Fakülte Temsilcisi, İstanbul Technical University, Denizcilik, Deniz Ulaştırma İşletme Mühendisliği, 2021 - Continues

Bölüm Kalite Komisyonu Üyesi, İstanbul Technical University, Denizcilik, Deniz Ulaştırma İşletme Mühendisliği, 2020 - Continues

Birim Kalite Komisyonu Üyesi, İstanbul Technical University, Denizcilik, Deniz Ulaştırma İşletme Mühendisliği, 2020 - Continues

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

- I. **Risk sensitivity analysis of AIS cyber security through maritime cyber regulatory frameworks**  
Söner Ö., Kayışoğlu G., Bolat P., Tam K.  
Applied Ocean Research, vol.142, 2024 (SCI-Expanded)
- II. **A novel application of the CORAS framework for ensuring cyber hygiene on shipboard RADAR**  
Kayışoğlu G., Bolat P., Tam K.  
Journal of Marine Engineering and Technology, vol.23, no.2, pp.67-81, 2024 (SCI-Expanded)
- III. **Cybersecurity risk assessment of VDR**  
Söner Ö., Kayışoğlu G., Bolat P., Tam K.  
Journal of Navigation, vol.76, no.1, pp.20-37, 2023 (SCI-Expanded)
- IV. **Evaluating SLIM-based human error probability for ECDIS cybersecurity in maritime**  
Kayışoğlu G., Bolat P., Tam K.  
JOURNAL OF NAVIGATION, vol.75, no.6, pp.1364-1388, 2022 (SCI-Expanded)
- V. **SLIM based methodology for human error probability calculation of bunker spills in maritime operations**  
Kayışoğlu G., Gunes B., Besikci E. B.  
RELIABILITY ENGINEERING & SYSTEM SAFETY, vol.217, 2022 (SCI-Expanded)
- VI. **Cyber security risk assessment for seaports: A case study of a container port**  
Gunes B., Kayışoğlu G., Bolat P.  
Computers and Security, vol.103, 2021 (SCI-Expanded)

## **Articles Published in Other Journals**

- I. **A slim based approach for human error probability of steel scrap cargo operations as a critical process in the maritime sector**  
Kayışoğlu G., Bolat F.  
POMORSTVO-SCIENTIFIC JOURNAL OF MARITIME RESEARCH, vol.36, no.1, pp.22-30, 2022 (ESCI)
- II. **Arma model-based prediction of the number of vessels navigating the istanbul strait unassisted by maritime pilots**  
Bolat P., Kayışoğlu G.

Transactions on Maritime Science, vol.10, no.1, pp.6-19, 2021 (ESCI)

**III. EVALUATION OF THE TURKISH MARINE TRADE FLEET IN TERMS OF SHIP SIZES AND MAIN ENGINE POWERS**

Kayıçoğlu G., Bolat F.

Eurasian Academy of Sciences Eurasian Econometrics, Statistics & Empirical Economics Journal, vol.18, pp.44-63, 2021 (Peer-Reviewed Journal)

**IV. Weighting Key Factors for Port Congestion by AHP Method**

Bolat P., Kayıçoğlu G., Gunes E., Kizilay F. E., Ozsogut S.

JOURNAL OF ETA MARITIME SCIENCE, vol.8, no.4, pp.252-273, 2020 (ESCI)

**V. Acceleration Logger and Analyzer**

Kayıçoğlu G., Canpolat S., Aydin A. D., Küçüktaş N., Hüner M.

The Eurasia Proceedings of Science, Technology, Engineering & Mathematics (EPSTEM), vol.7, pp.9-22, 2019 (Conference Book)

**VI. Antecedents and Consequences of Cybersecurity Awareness: A Case Study for Turkish Maritime Sector**

Bolat P., Kayıçoğlu G.

Journal of ETA Maritime Science, vol.7, no.4, pp.344-360, 2019 (ESCI)

## Books & Book Chapters

**I. Denizel Siber Güvenlikte Yapay Zekâ Ve Makine Öğrenmesi: Türkiye Örneği**  
KAYIŞOĞLU G., DÜZENLİ E., BOLAT P.

in: Türkiye'nin Deniz Hukuku ve Güvenliği, Şahin, Kenan, Editor, Seçkin Yayıncılık, Ankara, pp.285-310, 2023

**II. Cyber Security: General Perspectives on Cyber Security**  
BOLAT P., KAYIŞOĞLU G.

in: Security Studies: Classic to Post-Modern Approaches, ARDA ÖZKAN AND GÖKTÜRK TÜYSÜZOĞLU, Editor, ROWMAN & LITTLEFIELD, London, pp.173-190, 2023

**III. Birleşmiş Milletler Deniz Güvenliği Politikaları Ve Türkiye Yansımı**  
DÜZENLİ E., KAYIŞOĞLU G., BOLAT P.

in: Türkiye'nin Deniz Hukuku ve Güvenliği, Şahin, Kenan, Editor, Seçkin Yayıncılık, Ankara, pp.139-204, 2023

## Refereed Congress / Symposium Publications in Proceedings

**I. Towards Digital Transformation For Maritime Security In Maritime Education And Training**  
DÜZENLİ E., KAYIŞOĞLU G., BOLAT P.

The 28th International Maritime Lectures'Association Conference (IMLA 28), Varna, Bulgaria, 06 September 2023

**II. Determining Maritime Cyber Security Dynamics and Development of Maritime Cyber Risk Check List for Ships**  
KAYIŞOĞLU G., BOLAT P., Tam K.

The International Association of Maritime Universities (IAMU) Student Session, Poti, Georgia, 20 November 2022, pp.20-27

**III. Examination of Maritime Education within Frame of Gamification**  
KAYIŞOĞLU G., BOLAT P., BOLAT F., Payalan A.

4 th Global Conference on Innovation in Marine Technology and the Future of Maritime Transportation, Turkey, 18 - 19 November 2021, pp.67

**IV. Relationship Between the Amount of Container Cargo Handled in Turkey with The Number of Turkish-Flagged Container Vessel**  
Pehlivan D., Yüksel G.

III. Global Conference on Innovation in Marine Technology and the Future of Maritime Transportation - GMC,

İzmir, Turkey, 18 - 19 April 2019, pp.371-382

V. **Analyzing Organizational Culture for Innovation Performance in Maritime Industry**

Bolat P., Yüksel G., Bolat F., İşiaçık Çolak T.

III. Global Conference on Innovation in Marine Technology and the Future of Maritime Transportation, İzmir, Turkey, 18 - 19 April 2019, pp.253-267

VI. **Sistem Dinamikleri Modellemesi ile Türkiye Limanı için Optimum Konteyner Gemi Sayısını Belirleme**  
Yüksel G., Bolat P.

International Congress on Engineering and Architecture, Antalya, Turkey, 14 - 16 November 2018, pp.2210-2225

VII. **Tehlikeli Madde Taşımacılığının İntermodel Ulaştırma Açısından Değerlendirilmesi**  
Çığ N., Yüksel G., Bolat P.

International Congress on Engineering and Architecture, Antalya, Turkey, 14 - 16 November 2018, pp.2226-2237

VIII. **System Dynamics Modelling For Determining Optimal Ship Sizes And Types**  
Yüksel G., Bolat P., Kayışoğlu M.

International Conference on Science and Technology-ICONST, Prizren, Kosovo, 5 - 09 September 2018, pp.97

IX. **Evaluating Cyber Security Awareness In Maritime Domain**  
Bolat P., Yüksel G., Uygur S.

International Conference on Science and Technology-ICONST, Prizren, Kosovo, 5 - 09 September 2018, pp.98

X. **A Study For Understanding Cyber Security Awareness Among Turkish Seafarers**  
Bolat P., Yüksel G., Uygur S.

The Second Global Maritime Conference on Innovation in Maritime Technology and the Future of Maritime Transportation, Muğla, Turkey, 24 - 25 October 2016, pp.278-289

## Supported Projects

Bolat P., Kayışoğlu G., Düzenli E., Project Supported by Higher Education Institutions, ECDIS Siber Güvenliğine İlişkin Sızma Testi Uygulama ve Analizi, 2023 - Continues

Kayıdoğan G., Other International Funding Programs, Determining Maritime Cyber Security Dynamics and Development of Maritime Cyber Risk Check List for Ships, 2022 - 2023

## Activities in Scientific Journals

Journal of ETA Maritime Science, Assistant Editor/Section Editor, 2020 - Continues

## Tasks In Event Organizations

Kayıdoğan G., III. Global Conference On Innovation in Marine Technology and The Future of Maritime Transportation, Scientific Congress, İzmir, Turkey, Nisan 2019

Kayıdoğan G., Denizcilik Eğitimi Çalıştayı, Workshop Organization, İstanbul, Turkey, Kasım 2018

## Metrics

Publication: 28

Citation (WoS): 9

Citation (Scopus): 58

H-Index (WoS): 2

H-Index (Scopus): 3

## **Non Academic Experience**

The University of Plymouth

Professional Chamber, TMMOB Gemi Makineleri İşletme Mühendisleri Odası, GEMİMO

i-Marine Deniz Teknolojileri ve Araştırmaları