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Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAH-7493-2019

ScopusID: 26633587900

Yoksis Researcher ID: 21448

Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (Dr), Turkey 2008 - 2013

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Deniz Ulaştırma Ve İşletme Mühendisliği (Disiplinlerarası) (YI) (Tezli), Turkey 2006 - 2008

Undergraduate, Istanbul Technical University, Denizcilik Fakültesi, Gemi Makineleri İşletme Mühendisliği Bölümü, Turkey 1998 - 2003

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Gemi filo yönetiminde operasyonel risk kontrolü için bir karar verme yaklaşımı, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği (Dr), 2013

Postgraduate, Kapalı bir kaptaki Doğal ve Marangoni taşınımının sayısal incelenmesi, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Deniz Ulaştırma Ve İşletme Mühendisliği (Disiplinlerarası) (YI) (Tezli), 2008

Research Areas

Social Sciences and Humanities, Education, Educational Sciences, Test and Measurement in Education, Technical Sciences, Naval Architecture and Marine Engineering, Ship Machines, Basic Sciences, Mathematics, Approximations and Expansions

Academic Titles / Tasks

Associate Professor, Istanbul Technical University, Denizcilik, Gemi Makineleri İşletme Mühendisliği, 2024 - Continues

Assistant Professor, Istanbul Technical University, Denizcilik, Gemi Makineleri İşletme Mühendisliği, 2018 - 2024

Assistant Professor, Istanbul Technical University, Denizcilik, Gemi Makineleri İşletme Mühendisliği, 2014 - 2018

Research Assistant, Istanbul Technical University, Denizcilik, Gemi Makineleri İşletme Mühendisliği, 2006 - 2014

Academic and Administrative Experience

Deputy Head of Department, Istanbul Technical University, Denizcilik, Gemi Makineleri İşletme Mühendisliği, 2019 - Continues

Program Koordinatörü, Istanbul Technical University, Fen Bilimleri Enstitüsü, Deniz Ulaştırma Mühendisliği, 2017 - Continues

Fakülte Yönetim Kurulu Üyesi, Istanbul Technical University, Denizcilik, Gemi Makineleri İşletme Mühendisliği, 2016 - Continues

İstanbul Teknik Üniversitesi, Denizcilik Fakültesi, 2016 - 2016

Courses

Gemi Mak. İşl.Müh.Gir. ve Etik, Undergraduate, 2017 - 2018

Advising Theses

Çiçek K., A dynamic risk assessment methodology (Dy-RAM) in port waters, Doctorate, Ü.ÖZTÜRK(Student), 2019

Çiçek K., Konteyner terminal operasyonlarında otomasyon teknolojileri kullanımı: Otomatik yönlendirilmiş araç örneği, Postgraduate, Ü.ATAK(Student), 2018

Çiçek K., A hybrid ship condition assessment & evaluation methodology proposal for condition surveys, Postgraduate, G.KURTEL(Student), 2018

Çiçek K., Denizcilik sektöründeki kamu kuruluşlarına yönelik bir kurumsal performans değerlendirme modeli önerisi, Postgraduate, H.Selay(Student), 2017

Çiçek K., Sahil Güvenlik Komutanlığı arama ve kurtarma merkezlerine yönelik etkinlik analizi, Postgraduate, R.Mutlu(Student), 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Development an instructional design model selection approach for maritime education and training using fuzzy axiomatic design**
Kandemir İ., Çiçek K.
Education and Information Technologies, vol.28, no.9, pp.11291-11312, 2023 (SSCI)
- II. **Intelligent ship inspection analytics: Ship deficiency data mining for port state control**
Demirci S. M. E., Çiçek K.
Ocean Engineering, vol.278, 2023 (SCI-Expanded)
- III. **A knowledge based hierarchical reliability allocation (HIRAL) approach for shipboard systems**
Çiçek K.
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART M-JOURNAL OF ENGINEERING FOR THE MARITIME ENVIRONMENT, vol.236, no.4, pp.1098-1111, 2022 (SCI-Expanded)
- IV. **A Quantified Ship Condition Inspection Model Based on SWARA and SAW**
Çiçek K., Kurtel G.
INTERNATIONAL JOURNAL OF INFORMATION TECHNOLOGY & DECISION MAKING, 2022 (SCI-Expanded)
- V. **Innovative Strategy Development Approach for Enhancing the Effective Implementation of the International Safety Management (ISM) Code**
Demirci S. M. E., Çiçek K.
TRANSPORTATION RESEARCH RECORD, 2022 (SCI-Expanded)

- VI. **Evaluating navigational risk of port approach manoeuvrings with expert assessments and machine learning**
Ozturk U., Birbil S. I., Çiçek K.
OCEAN ENGINEERING, vol.192, 2019 (SCI-Expanded)
- VII. **Individual collision risk assessment in ship navigation: A systematic literature review**
Ozturk U., Çiçek K.
OCEAN ENGINEERING, vol.180, pp.130-143, 2019 (SCI-Expanded)
- VIII. **Prediction of human error probabilities in a critical marine engineering operation on-board chemical tanker ship: The case of ship bunkering**
Akyüz E., Çelik M., Akgun I., Çiçek K.
SAFETY SCIENCE, vol.110, pp.102-109, 2018 (SCI-Expanded)
- IX. **INTERNATIONAL CONVENTION ON OIL POLLUTION PREPAREDNESS, RESPONSE AND CO-OPERATION (OPRC) 1990 AND ITS APPLICATIONS RELATED WITH OIL SPILL IN TURKEY**
Çiçek K.
OIL SPILL ALONG THE TURKISH STRAITS SEA AREA; ACCIDENTS, ENVIRONMENTAL POLLUTION, SOCIO-ECONOMIC IMPACTS AND PROTECTION, vol.47, pp.381-391, 2018 (SCI-Expanded)
- X. **Application of failure modes and effects analysis to main engine crankcase explosion failure on-board ship**
Çiçek K., Çelik M.
SAFETY SCIENCE, vol.51, no.1, pp.6-10, 2013 (SCI-Expanded)
- XI. **An integrated decision aid extension to material selection problem**
Çiçek K., Çelik M., Topcu Y. İ.
MATERIALS & DESIGN, vol.31, no.9, pp.4398-4402, 2010 (SCI-Expanded)
- XII. **Multiple attribute decision-making solution to material selection problem based on modified fuzzy axiomatic design-model selection interface algorithm**
Çiçek K., CELİK M.
MATERIALS & DESIGN, vol.31, no.4, pp.2129-2133, 2010 (SCI-Expanded)
- XIII. **Selection of porous materials in marine system design: The case of heat exchanger aboard ships**
Çiçek K., CELİK M.
MATERIALS & DESIGN, vol.30, no.10, pp.4260-4266, 2009 (SCI-Expanded)

Articles Published in Other Journals

- I. **Simulation-Based Cost Evaluation of Maritime Transportation**
PEHLİVAN D., ÇİÇEK K.
JOURNAL OF ETA MARITIME SCIENCE, vol.11, no.4, pp.270-281, 2023 (ESCI)
- II. **DEFICIENCY ANALYSIS IDENTIFIED IN PSC INSPECTIONS USING EVENT TREE ANALYSIS**
DEMİRCİ S. M. E., ÇİÇEK K.
Journal of Marine Technology and Environment, vol.2022, no.1, pp.40-46, 2022 (Peer-Reviewed Journal)
- III. **A knowledge-based model on quality management system compliance assessment for maritime higher education institutions**
Pehlivan D., Çiçek K.
QUALITY IN HIGHER EDUCATION, vol.27, no.2, pp.239-263, 2021 (ESCI)
- IV. **Gemi risk faktörü temelli denetim modeli: Paris MOU Denetimleri Uyum Analizi**
DEMİRCİ S. M. E., ÇİÇEK K.
Dokuz Eylül Üniversitesi Denizcilik Fakültesi Dergisi, vol.12, no.1, pp.1-24, 2020 (Peer-Reviewed Journal)
- V. **A Comparative Research of Machine Learning Impact to Future of Maritime Transportation**
AKYÜZ E., ÇİÇEK K., ÇELİK M.
Procedia Computer Science, vol.158, pp.275-280, 2019 (Scopus)
- VI. **Future Skills Requirements Analysis in Maritime Industry**

ÇİÇEK K., AKYÜZ E., ÇELİK M.

Procedia Computer Science, vol.158, pp.270-274, 2019 (Scopus)

VII. **Gemi üzeri pis su arıtma sistemi seçimine yönelik bilgi tabanlı uzman sistemi**

ÇİÇEK K.

Journal of ETA Maritime Science, vol.7, no.2, pp.101-115, 2019 (ESCI)

VIII. **Kritik gemi operasyonlarına yönelik risk kontrol esaslı bir karar verme yaklaşımı**

ÇİÇEK K., TOPCU Y. İ.

Journal of ETA Maritime Science, vol.6, no.2, pp.159-177, 2018 (Peer-Reviewed Journal)

Books & Book Chapters

I. **Digital Maturity Assessment of Ship Management Companies Towards Organizational Intelligence: Blue Digital Focus**

ÇİÇEK K., ÇELİK M., DEMİRCİ S. M. E.

in: Intelligent Systems in Digital Transformation, Kahraman, C., Haktanır, E., Editor, Springer, pp.537-560, 2023

II. **International Convention on Oil Pollution Preparedness, Response and Co-operation (OPRC) 1990 and its Applications Related with Oil Spill in Turkey**

ÇİÇEK K.

in: Oil Spill along the Turkish Straits Sea Area Accidents, Environmental Pollution, Socio-Economic Impacts and Protection, Ünlü Selma, Alpar Bedri, Öztürk Bayram, Editor, Turkish Marine Research Foundation (TUDAV), İstanbul, pp.381-391, 2018

Refereed Congress / Symposium Publications in Proceedings

I. **A novel marine inspection service and smart solutions platform: Marinspectfy**

ÇİÇEK K., ÇELİK M.

14th International Conference on Recent Trends in Engineering Technology, India, 25 June 2023

II. **A Fuzzy Rule-Based Ship Risk Profile Prediction Model for Port State Control Inspections**

Demirci S. M. E., Çiçek K., Ozturk U.

International Conference on Intelligent and Fuzzy Systems, INFUS 2021, İstanbul, Turkey, 24 - 26 August 2021, vol.308, pp.498-505

III. **Otonom Liman Operasyonlarında Otomatik Yönlendirilmiş Araç Kullanımı: Terminal Çekicisi ile Yön Bulma Algoritması Karşılaştırma Çalışması**

ATAK Ü., TEMELTAŞ H., ÇİÇEK K.

TOK2018 Otomatik Kontrol Ulusal Toplantısı, Turkey, 12 - 14 September 2018

IV. **A continuing professional development program on designated person ashore (DPA) position in ship management companies.**

AKYÜZ E., ÇİÇEK K., ÇELİK M.

International Congresses on Education 2018, 28 June - 01 July 2018

V. **Developing a maritime course on human reliability assessment in shipboard operations via problem-based gaming practices.**

AKYÜZ E., ÇELİK M., ÇİÇEK K.

International Congresses on Education 2018, 28 June - 01 July 2018

VI. **A practical training assessment methodology for engine room simulator trainings**

ÇİÇEK K.

The 13th International Conference on Engine Room Simulators, 20 - 21 September 2017, pp.129-135

VII. **An intelligent fault diagnosis system on ship machinery systems based on support vector machine principles**

ÖZTÜRK Ü., ÇİÇEK K., ÇELİK M.

European Safety and Reliability conference (ESREL 2016), 25 - 29 September 2016

- VIII. **An intelligent fault diagnosis system on ship machinery systems based on support vector machine principles**
Öztürk Ü., ÇİÇEK K., ÇELİK M.
European Safety and Reliability conference (ESREL 2016), Glasgow, United Kingdom, 25 - 29 September 2016, pp.1949-1953
- IX. **Risk-based preventive maintenance planning using Failure Mode and Effect Analysis (FMEA) for marine engine systems**
Çiçek K., Turan H. H., Topcu Y. İ., Searslan M. N.
2010 2nd International Conference on Engineering System Management and Applications, ICESMA 2010, Sharjah, United Arab Emirates, 30 March - 01 April 2010
- X. **Appraisal of affecting factors on marine engineers' performance using FAHP based on modified Chang's algorithm**
Çiçek K., Cebi S., Çelik M.
International Conference on Computers and Industrial Engineering (CIE39), Troyes, France, 6 - 09 July 2009, pp.464-466
- XI. **Establishing an international MBA program for shipping executives: Managing OR/MS foundation towards a unique curriculum design**
Çelik M., Çiçek K., Cebi S.
International Conference on Computers and Industrial Engineering (CIE39), Troyes, France, 6 - 09 July 2009, pp.459-460
- XII. **Prioritization of the VIQ items within SIRE program for an oil tanker ship**
Cebi S., Çelik M., Çiçek K.
International Conference on Computers and Industrial Engineering (CIE39), Troyes, France, 6 - 09 July 2009, pp.449-450
- XIII. **Establishing Training Module for IMDG Code in Maritime Education and Training (MET) Institutions**
ÇİÇEK K., ÇELİK M.
International Conference on Prospects for Research in Transport and Logistics on a Regional-Global Perspective, 12 - 14 February 2009
- XIV. **Execution Model Proposal on Managing Accreditation Process in Maritime Education and Training (MET) Institutions**
ÇİÇEK K., ÇELİK M.
International Maritime Lecturer Association 16th conference on MET, 14 - 17 October 2008

Supported Projects

Çiçek K., Project Supported by Higher Education Institutions, Gemi Makineleri Arıza Analiz Yöntemi Tasarımı ve Uygulaması Gemi Makineleri Güvenilirlik Evi, 2022 - Continues

Çiçek K., Project Supported by Other Official Institutions, Global Tanker İşletmeciliği Firmasında TMSA 3.0 Esaslı Yönetici Yetkinlik İzleme Modeli Geliştirilmesi ve Entegrasyonu, 2023 - 2023

Çiçek K., Kandemir İ., Project Supported by Higher Education Institutions, AÇIKDENİZ YAPILARI ÇALIŞANLARINA VERİLEN EĞİTİMLERE YÖNELİK SİSTEMATİK BİR ÖĞRETİM TASARIM MODELİ GELİŞTİRİLMESİ, 2021 - 2023

Çelik M., Çiçek K., Association (NGO), Blue Digital Focus, 2021 - 2022

Çiçek K., Çelik M., Akgün İ., Project Supported by Other Official Institutions, Gemi Personeli İleri Yeterlilikleri İzleme ve Değerlendirme Sisteminin Ağ Tabanlı Tasarımı, 2020 - 2020

Çiçek K., Çelik M., Project Supported by Other Official Institutions, Tanker Filosu Gemilerinde Kritik Operasyonlara Yönelik İleri Emniyet Destek Sistemi Dijitalizasyonu, 2018 - 2019

Çelik M., Çiçek K., TUBITAK Project, Gemi Operasyonlarında İnsan Güvenilirliği Analiz Ve Takip Sistemi Önerisi (İ-Gats), 2014 - 2017

Çiçek İ., Deniz C., Dere Ç., Çiçek K., Çelik M., Industrial Thesis Project, Design and Simulation of Ship Main Engine and

Propulsion System, 2014 - 2016

Metrics

Publication: 49

Citation (WoS): 151

Citation (Scopus): 462

H-Index (WoS): 6

H-Index (Scopus): 12

Non Academic Experience

T.C. Bařbakanlık Denizcilik Msteřarlıęı
Genel Denizcilik