

Prof. Metin Çelik

Personal Information

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Education Information

Doctorate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Deniz Ulaştırma Ve İşletme Mühendisliği (Dr), Turkey
2006 - 2009

Post Graduate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Deniz Ulaştırma Ve İşletme Mühendisliği
(Disiplinlerarası) (YI) (Tezli), Turkey 2004 - 2006

Under Graduate, İstanbul Teknik Üniversitesi, Denizcilik Fakültesi, Gemi Makineleri İşletme Mühendisliği Bölümü, Turkey
1998 - 2003

Foreign Languages

English

Research Areas

Technical Sciences, Industrial Engineering , Quality and Reliability, Reliability and Maintenance, Quality Control, Naval
Architecture and Marine Engineering, Ship Machines

Academic Titles / Tasks

Associate Professor, İstanbul Teknik Üniversitesi, Denizcilik Fakültesi, Gemi Makineleri İşletme Mühendisliği Bölümü,
2013 - Continues

Assistant Professor, İstanbul Teknik Üniversitesi, Denizcilik Fakültesi, Gemi Makineleri İşletme Mühendisliği Bölümü,
2010 - 2013

Research Assistant, İstanbul Teknik Üniversitesi, Denizcilik Fakültesi, Deniz Ulaştırma İşletme Mühendisliği Bölümü, 2004
- 2010

Professional Experience

Deputy Head of Department, İstanbul Teknik Üniversitesi, Denizcilik Fakültesi, Gemi Makineleri İşletme Mühendisliği
Bölümü, 2011 - Continues

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Application of human reliability analysis to repair & maintenance operations on-board ships: The case of HFO purifier overhauling**
Kandemir Ç., Çelik M., Akyüz E., Aydın O.
APPLIED OCEAN RESEARCH, vol.88, pp.317-325, 2019 (Journal Indexed in SCI)
- **Statistical modelling of ship operational performance monitoring problem**
Söner Ö., Akyüz E., Çelik M.
JOURNAL OF MARINE SCIENCE AND TECHNOLOGY, vol.24, pp.543-552, 2019 (Journal Indexed in SCI)
- **A maritime safety on-board decision support system to enhance emergency evacuation on ferryboats**
Sarvari P. A. , Çevikcan E., Çelik M., Üstündağ A., Ervural B.

MARITIME POLICY & MANAGEMENT, vol.46, pp.410-435, 2019 (Journal Indexed in SSCI)

- **A simulation model proposal to improve the productivity of container terminal operations through investment alternatives**

Sislioglu M., Çelik M., Ozkaynak S.

MARITIME POLICY & MANAGEMENT, vol.46, pp.156-177, 2019 (Journal Indexed in SSCI)

- **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 (Journal Indexed in SCI)

- **Use of tree based methods in ship performance monitoring under operating conditions**

Söner Ö., Akyüz E., Çelik M.

OCEAN ENGINEERING, vol.166, pp.302-310, 2018 (Journal Indexed in SCI)

- **AN ICOR APPROACH TOWARDS SHIP MAINTENANCE SOFTWARE DEVELOPMENT**

Bayer D., AYDIN Ö., Çelik M.

INTERNATIONAL JOURNAL OF MARITIME ENGINEERING, vol.160, pp.11-19, 2018 (Journal Indexed in SCI)

- **Studies on emergency evacuation management for maritime transportation**

SARVARIP. A. , Çevikcan E., Üstündağ A., Çelik M.

MARITIME POLICY & MANAGEMENT, vol.45, pp.622-648, 2018 (Journal Indexed in SSCI)

- **A practical application of human reliability assessment for operating procedures of the emergency fire pump at ship**

Akyuz E., Celik E., Çelik M.

SHIPS AND OFFSHORE STRUCTURES, vol.13, pp.208-216, 2018 (Journal Indexed in SCI)

- **USING OF A'WOT TO DESIGN AN ENHANCED PLANNED MAINTENANCE SYSTEM (E-PMS) ON-BOARD SHIP**

Akyuz E., Çelik M.

BRODOGRADNJA, vol.68, pp.61-75, 2017 (Journal Indexed in SCI)

- **A hybrid human error probability determination approach: The case of cargo loading operation in oil/chemical tanker ship**

Akyuz E., Çelik M.

JOURNAL OF LOSS PREVENTION IN THE PROCESS INDUSTRIES, vol.43, pp.424-431, 2016 (Journal Indexed in SCI)

- **A phase of comprehensive research to determine marine-specific EPC values in human error assessment and reduction technique**

Akyuz E., Çelik M., ÇEBİ S.

SAFETY SCIENCE, vol.87, pp.63-75, 2016 (Journal Indexed in SCI)

- **A fuzzy failure mode and effects approach to analyse concentrated inspection campaigns on board ships**

Akyuz E., Akgun I., Çelik M.

MARITIME POLICY & MANAGEMENT, vol.43, pp.887-908, 2016 (Journal Indexed in SSCI)

- **Use of HFACS-FCM in fire prevention modelling on board ships**

Soner O., ASAN U., Çelik M.

SAFETY SCIENCE, vol.77, pp.25-41, 2015 (Journal Indexed in SCI)

- **A methodological extension to human reliability analysis for cargo tank cleaning operation on board chemical tanker ships**

Akyuz E., Celik M.

SAFETY SCIENCE, vol.75, pp.146-155, 2015 (Journal Indexed in SCI)

- **Application of CREAM human reliability model to cargo loading process of LPG tankers**

Akyuz E., Çelik M.

JOURNAL OF LOSS PREVENTION IN THE PROCESS INDUSTRIES, vol.34, pp.39-48, 2015 (Journal Indexed in SCI)

- **Assessment of the maritime labour convention compliance using balanced scorecard and analytic hierarchy process approach**

Akyuz E., KARAHALIOS H., Çelik M.

MARITIME POLICY & MANAGEMENT, vol.42, pp.145-162, 2015 (Journal Indexed in SSCI)

- **An extension to Fuzzy Fault Tree Analysis (FFTA) application in petrochemical process industry**
Lavasanı S. M. , ZENDEGANI A., Çelik M.
PROCESS SAFETY AND ENVIRONMENTAL PROTECTION, vol.93, pp.75-88, 2015 (Journal Indexed in SCI)
- **Utilisation of cognitive map in modelling human error in marine accident analysis and prevention**
Akyuz E., Çelik M.
SAFETY SCIENCE, vol.70, pp.19-28, 2014 (Journal Indexed in SCI)
- **A hybrid decision-making approach to measure effectiveness of safety management system implementations on-board ships**
Akyuz E., Çelik M.
SAFETY SCIENCE, vol.68, pp.169-179, 2014 (Journal Indexed in SCI)
- **Composite Films Based on Styrene-co-butyl-acrylate with Colemanite and Calcium Bentonite Mineral Fillers**
Güven O., Karakaş F., Kaya M. A. , Yildirim H., Çelik M.
MECHANICS OF COMPOSITE MATERIALS, vol.50, pp.335-342, 2014 (Journal Indexed in SCI)
- **A decision-making solution to ship flagging out via administrative maritime strategies**
Çelik M., Topcu Y. İ.
MARITIME POLICY & MANAGEMENT, vol.41, pp.112-127, 2014 (Journal Indexed in SSCI)
- **Application of failure modes and effects analysis to main engine crankcase explosion failure on-board ship**
Çiçek K., Çelik M.
SAFETY SCIENCE, vol.51, pp.6-10, 2013 (Journal Indexed in SCI)
- **An Axiomatic Decision Aid for Marine Equipment Selection in Ship Machinery Design and Installation Projects**
ÇEBİ S., Çelik M., KAHRAMAN C.
JOURNAL OF MULTIPLE-VALUED LOGIC AND SOFT COMPUTING, vol.18, pp.223-245, 2012 (Journal Indexed in SCI Expanded)
- **Maritime policy development against ship flagging out dilemma using a fuzzy quantified SWOT analysis**
Çelik M., KANDAKOĞLU A.
MARITIME POLICY & MANAGEMENT, vol.39, pp.401-421, 2012 (Journal Indexed in SSCI)
- **An integrated decision aid extension to material selection problem**
Çiçek K., Çelik M., Topcu Y. İ.
MATERIALS & DESIGN, vol.31, pp.4398-4402, 2010 (Journal Indexed in SCI)
- **Multiple attribute decision-making solution to material selection problem based on modified fuzzy axiomatic design-model selection interface algorithm**
Çiçek K., ÇELİK M.
MATERIALS & DESIGN, vol.31, pp.2129-2133, 2010 (Journal Indexed in SCI)
- **Structuring ship design project approval mechanism towards installation of operator-system interfaces via fuzzy axiomatic design principles**
Cebi S., Çelik M., KAHRAMAN C.
INFORMATION SCIENCES, vol.180, pp.886-895, 2010 (Journal Indexed in SCI)
- **Enhancement of occupational health and safety requirements in chemical tanker operations: The case of cargo explosion**
Çelik M.
SAFETY SCIENCE, vol.48, pp.195-203, 2010 (Journal Indexed in SCI)
- **A Key Decision-Making Process on Logistic Support to Merchant Ships Based on Operational Requirements: Marine Supplier Selection**
Çelik M.
NAVAL ENGINEERS JOURNAL, vol.122, pp.125-135, 2010 (Journal Indexed in SCI)
- **Selection of porous materials in marine system design: The case of heat exchanger aboard ships**
Çiçek K., ÇELİK M.
MATERIALS & DESIGN, vol.30, pp.4260-4266, 2009 (Journal Indexed in SCI)
- **Use of an ANP to prioritize managerial responsibilities of maritime stakeholders in environmental**

incidents: An oil spill case

Çelik M., Topcu Y. İ.

TRANSPORTATION RESEARCH PART D-TRANSPORT AND ENVIRONMENT, vol.14, pp.502-506, 2009
(Journal Indexed in SCI)

• **Establishing an Integrated Process Management System (IPMS) in ship management companies**

Celik M.

EXPERT SYSTEMS WITH APPLICATIONS, vol.36, pp.8152-8171, 2009 (Journal Indexed in SCI)

• **Designing of integrated quality and safety management system (IQSMS) for shipping operations**

Celik M.

SAFETY SCIENCE, vol.47, pp.569-577, 2009 (Journal Indexed in SCI)

• **Fuzzy axiomatic design extension for managing model selection paradigm in decision science**

Çelik M., ER I. D.

EXPERT SYSTEMS WITH APPLICATIONS, vol.36, pp.6477-6484, 2009 (Journal Indexed in SCI)

• **Application of axiomatic design and TOPSIS methodologies under fuzzy environment for proposing competitive strategies on Turkish container ports in maritime transportation network**

Çelik M., CEBİ S., KAHRAMAN C., ER I. D.

EXPERT SYSTEMS WITH APPLICATIONS, vol.36, pp.4541-4557, 2009 (Journal Indexed in SCI)

• **An integrated fuzzy QFD model proposal on routing of shipping investment decisions in crude oil tanker market**

Çelik M., CEBİ S., KAHRAMAN C., ER I. D.

EXPERT SYSTEMS WITH APPLICATIONS, vol.36, pp.6227-6235, 2009 (Journal Indexed in SCI)

• **Structuring fuzzy integrated multi-stages evaluation model on academic personnel recruitment in MET institutions**

Çelik M., KANDAKOĞLU A., ER I. D.

EXPERT SYSTEMS WITH APPLICATIONS, vol.36, pp.6918-6927, 2009 (Journal Indexed in SCI)

• **An expert system towards solving ship auxiliary machinery troubleshooting: SHIPAMT(SOLVER)**

Cebi S., Çelik M., KAHRAMAN C., ER I. D.

EXPERT SYSTEMS WITH APPLICATIONS, vol.36, pp.7219-7227, 2009 (Journal Indexed in SCI)

• **A hybrid design methodology for structuring an Integrated Environmental Management System (IEMS) for shipping business**

Celik M.

JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.90, pp.1469-1475, 2009 (Journal Indexed in SCI)

• **Computer-based systematic execution model on human resources management in maritime transportation industry: The case of master selection for embarking on board merchant ships**

Çelik M., ER I. D. , Topcu Y. İ.

EXPERT SYSTEMS WITH APPLICATIONS, vol.36, pp.1048-1060, 2009 (Journal Indexed in SCI)

• **A multi-methodological approach for shipping registry selection in maritime transportation industry**

Kandakoglu A., Çelik M., AKGÜN I.

MATHEMATICAL AND COMPUTER MODELLING, vol.49, pp.586-597, 2009 (Journal Indexed in SCI)

• **Fuzzy axiomatic design-based performance evaluation model for docking facilities in shipbuilding industry: The case of Turkish shipyards**

Çelik M., KAHRAMAN C., CEBİ S., ER I. D.

EXPERT SYSTEMS WITH APPLICATIONS, vol.36, pp.599-615, 2009 (Journal Indexed in SCI)

• **Application of fuzzy extended AHP methodology on shipping registry selection: The case of Turkish maritime industry**

Çelik M., ER I. D. , OZOK A. F.

EXPERT SYSTEMS WITH APPLICATIONS, vol.36, pp.190-198, 2009 (Journal Indexed in SCI)

• **Analytical modelling of shipping business processes based on MCDM methods**

Çelik M., Topcu Y. İ.

MARITIME POLICY & MANAGEMENT, vol.36, pp.469-479, 2009 (Journal Indexed in SSCI)

• **Analytical HFACS for investigating human errors in shipping accidents**

Çelik M., CEBİ S.

ACCIDENT ANALYSIS AND PREVENTION, vol.41, pp.66-75, 2009 (Journal Indexed in SSCI)

- **Managing the Operational Constraints in Ship Machinery Design and Installation: Synthesis of Design-Based Failures for Improving the Structural Quality of Shipboard Systems**

Celik M.

NAVAL ENGINEERS JOURNAL, vol.120, pp.67-76, 2008 (Journal Indexed in SCI)

Articles Published in Other Journals

- **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 (Refereed Journals of Other Institutions)
- **Future Skills Requirements Analysis in Maritime Industry**
ÇİÇEK K., AKYÜZ E., ÇELİK M.
Procedia Computer Science, vol.158, pp.270-274, 2019 (Refereed Journals of Other Institutions)
- **Proposing a practical training assessment technique to adopt simulators into marine engineering education**
Kandemir Ç., Söner Ö., Çelik M.
WMU JOURNAL OF MARITIME AFFAIRS, vol.17, pp.1-15, 2018 (Journal Indexed in ESCI)
- **Gemi Operasyonlarında Acil Durum Yönetimi Etkinliğini Değerlendirme ve İyileştirme Üzerine Uygulamalı Bir Araştırma Yaklaşımı Önerisi**
ÖZTÜRK TAÇ B., AKYÜZ E., ÇELİK M.
Journal of Transportation and Logistics, vol.3, pp.93-108, 2018 (Other Refereed National Journals)
- **Hızlı Feribotlarda Makine Dairesi Kaynaklı Yangın Koşullarında Tahliye Operasyonunun Yönetimine Yönelik Benzetim Destekli Metodoloji Önerisi**
SARVARIP. A. , ÇEVİKCAN E., ÇELİK M., ÜSTÜNDAĞ A.
Journal of ETA Maritime Science, vol.5, pp.362-385, 2017 (Other Refereed National Journals)

Citations

Total Citations (WOS):1230

h-index (WOS):21