Ioannis Filippopoulos, *Associate / Assistant Professor* *PhD, MBA, MSc, BSc*

37-39 Giannitson ▪ 2027 Strovolos, Nicosia, Cyprus Cell: +357 96 480 732
Email: yf@outlook.com.gr +30 6944 388725
https://www.linkedin.com/in/ioannisfilippopoulos website: http://www.ioannisfilippopoulos.com

Publications

1. Marie-Aurelie Ne, Ioannis Filippopoulos, Eleftherios Voumvourakis, Aggelos Aggelis, Leonidas Perlepes, Georgios Stamoulis, Panayotis Kikiras (2011), **IEEE,** "**i-Protect: An Open Source Emergency Management Framework**". IEEE / 15th Panhellenic Conference on Informatics, 30 November 2011, DOI: 10.1109/PCI.2011.56. (q1)
   Emergency management is an essential capability in modern society. As disasters can happen at any time and can differ from each other considerably, it is necessary to develop a supple framework which can comply with each situation. The aim of this paper is to provide an overview of the i-Protect Emergency Management Framework and analyze in details each of its components. As a proof of concept, we also present two case studies: an urban chemical explosion and a wildland fire simulation engine.
   https://www.dropbox.com/s/ous7l21lxbc0pxn/i-Protect%20An%20Open%20Source%20Emergency%20Management%20Framework%20.pdf?dl=0
2. Ioannis Filippopoulos, Georgios Stamoulis, Panayotis Kikiras (2012), **IEEE**, "**Managing Forest Fires with i-Protect Fire Simulation Module**". IEEE/16th Panhellenic Conference on Informatics, 5 October, DOI: 10.1109/PCi.2012.51. (q1)
   This article discusses the fire simulation component of i-Protect. i-Protect is an Emergency Management Framework aiming to support emergency management process during the four phases of a crisis: mitigation, preparedness, response and recovery.
   https://www.dropbox.com/s/k3xtxocusnj9riv/Filippopoulos%20et%20al%20PCI%202012%20_%20Managing%20Forestz%20Fires%20with%20i-Protect%20Fire%20Simulation%20Module.pdf?dl=0
3. Ioannis Filippopoulos (2012), "**Managing forest fires with i - protect fire simulation module**", PhD Thesis, DOI: 10.12681/eadd/29344.
   The purpose of this Thesis is to develop a simulation system, which will be able to simulate past, active and potential fires (operational simulation), but also real-time simulation (design simulation) to facilitate the services involved in fire extinguishing and their training. The simulation algorithm does not divide the field into static cells, but it creates dynamic cells in the direction of the fire, which allows for the reduction of the necessary calculation and for continuous updating of dynamically changing data. The user of the platform has the choice of the shape of the cells, between the hexagonal and the square.
   https://www.dropbox.com/s/ydzmc6j30f76g00/phdGRPrinted.pdf?dl=0
4. Ioannis Filippopoulos, Georgios Stamoulis (2017), **IEEE**, "**Collecting and using vessel's live data from on board equipment using "Internet of Vessels (IoV) platform**". IEEE/South Eastern European Design Automation, Computer Engineering, Computer Networks and Social Media Conference (SEEDA-CECNSM)), Kastoria, Greece, 3-5 September, DOI: 10.23919/SEEDA-CECNSM.2017.8088242. (q1)
   The purpose of this paper is a presentation of a recursive project (a platform), that started three years ago, in which shore management companies can collect, transmit, store, analyze and finally use and present vessels live data on a Geographical Information System used as Global Monitoring Platform. We used those data for further analysis, and we produced information about engine performance, gas emissions, navigation, Vessel performance etc. The produced information of the above data could be used as an input to a support decision system or to an alerting system, back to the Maritime Company that monitors the Vessel.
   https://www.dropbox.com/s/i502gvgry5nvo4e/Vessels%20IoTpaper.pdf?dl=0
5. Ioannis Filippopoulos, Georgios Stamoulis, Ioannis Sovolakis (2018), **IEEE,** "**Transferring Structured Data and applying business processes in remote Vessel's environments using the InfoNet Platform**", IEEE / South Eastern European Design Automation, Computer Engineering, Computer Networks and Social Media Conference (SEEDA-CECNSM), Kastoria, Greece, 22-24 September, DOI: 10.23919/SEEDA-CECNSM.2018.8544918. (q1)

The purpose of this paper is a presentation of a fully implemented platform (InfoNet), that has been installed in more than 120 Vessels. The described platform serves and facilitates the structured data transferring between the Operational Vessel's unstable environment and the Office one. In addition, it can apply business processes not only to office side but also to Vessel's remote environment. "InfoNet" platform is multipurpose and can interface with multiple components and modules of any ERP, CRM or other structured platform that the organization uses in both sides (vessels and/or Office).
https://www.dropbox.com/s/283et81tnag7dqe/Transferring%20Structured%20Data%20%E2%80%9CInfoNet%E2%80%9D%20Platform.pdf?dl=0

6. Zoran Lajic, Ioannis Filippopoulos, Alexandros Senteris, Mark Pearson (2018), **IEEE,** "**Adaptive GLR Change Detector for Increasing Reliability of Vessel Performance System**". **IEEE** / 3rd International Conference on System Reliability and Safety ICSRS 2018, Barcelona, Spain, 24-26 November, DOI: 10.1109/ICSRS.2018.8688875. (q1)
In this paper a new adaptive GLR (generalized likelihood ratio) detector which is able to detect the stable periods of the operation of a vessel has been presented. To assess the performance of a vessel, the stable periods of navigation can be used only. Therefore, having only sensor measurements from the stable periods as the inputs to the system is crucial for proper functioning of an auto logged vessel performance monitoring system. Removing the "contaminated" signals by ship maneuvering, changes in the weather condition or vessel speed would lead to an increase of the reliability of the system. The results from two VLCCs (Very Large Crude Carrier) with high and low frequency data will be shown.
https://www.dropbox.com/s/g2nfr8so1qemg4h/Adaptive%20GLR%20%20SM.pdf?dl=0

7. Stergios Oikonomou, Ioannis Filippopoulos, Alexandros Voliotis (2019), "**An Integrated Maritime Cyber Security Proposal**", ISER International Conference on Science, Technology, Engineering and Management (ICSTEM), Crete, Greece, 8th-9th August.
This paper attempts to analyze the common cyber threats, the possible actors behind a cyber-attack as well as its anatomy. Furthermore, there is a report about the vulnerabilities in ship systems but the main purpose of this paper is to propose a cyber-security policy and its components for the maritime sector.
https://www.dropbox.com/s/5jw9faf6tcn2sjs/Maritime%20Cybersecurity%20Policy_v2.pdf?dl=0

8. Zoran Lajic, Alexandros Senteris, Ioannis Filippopoulos, Mark Pearson (2019), **IEEE,** "**Transformation of Vessel Performance System into Fault-tolerant System – Example of Fault Detection on Speed Log**", **IEEE** / 4th ICSRS, Rome, Italy, DOI: 10.1109/ICSRS48664.2019.8987652. (q1)
In this paper fault diagnosis as the first step of system transformation into a fault-tolerant system has been presented. Fault diagnosis means that the existence of faults has to be detected and the faults have to be isolated. As an example, fault detection on the speed log (measurement of speed through the water) and GPS corrected speed (calculated speed through the water by combining the vectors of speed over ground and sea current) has been presented. Furthermore, the influence of hull fouling on the results has been discussed. In order to achieve the final goal, i.e. transformation of the system into a fault-tolerant system, the system must be redesigned. System re-design implies that the system has to be adapted to the faulty situation so that the overall system continues to satisfy its goal. The results of the fault detection from one VLCCs (Very Large Crude Carrier) and one SUEZMAX tanker, with clean and with fouled hull will be shown.
https://www.dropbox.com/s/6k4nrghk64o9tc0/R0065%20Transformation%20of%20Vessel%20Performance%20System%20into%20Fault-tolerant%20System.pdf?dl=0

9. Ioannis Filippopoulos, Zoran Lajic, Alexandros Senteris, Mark Pearson, Georgios Mitsopoulos (2019), **IEEE,** "**Multi-Sensor Data Fusion for the Vessel Trim Analyzer and Optimization Platform**", **IEEE** / 4th ICSRS, Rome, Italy, DOI: 10.1109/ICSRS48664.2019.8987689. (q1)
The purpose of this paper is to describe a platform and the multi-sensor Data Fusion, that is used to analyze the power consumed regarding the Vessel's trim during past Voyages and to provide decision making support about the trim for futures Voyages. Platform collects data from several resources, including live data from sensors, aggregates, and analyses them. Platform also provides simplified user interfaces and indicators to the maritime company's specialized personnel and the Vessel's Captain and Chief Engineer for best "trimming" selection. Maran Tankers Management Inc. is a maritime company that uses the described platform for more than forty (40) Tanker Vessels.
https://www.dropbox.com/s/pstuewfmrmvr5f5/R0040%20Multi-Sensor%20Data%20Fusion%20for%20the%20Vessel%20Trim%20Analyzer%20and%20Optimization%20Platform.pdf?dl=0

10. Marios Papadakis, Andreas Afendras, Charalampos Skiadas, Despoina Renieri, Morfo Tsaknaki, Ioannis Filippopoulos, Chrysoula Liakou (2020), **"Cardiovascular risk factors among 3712 Greek seafarers**", International Maritime Health Journal, DOI: 10.5603/IMH.2020.0032. (q3)
Global concern on seafarers' health and its potential cost is widely evident across the shipping industry. Seafarers are at increased cardiovascular risk since it is common to have risk factors associated with that risk such as hyperlipidaemia, obesity and smoking. The aim of this study is to assess the prevalence of the main risk factors for cardiovascular disease (CVD), i.e. hyperlipidaemia, smoking and obesity, in Greek seafarers.
https://www.dropbox.com/s/5204vqc9bftpn9a/68417-223174-1-PB%20Cardiovascular%20risk%20factors%20among%203712%20Greek%20seafarers.pdf?dl=0
11. Ioannis Filippopoulos, Yiannis Kiouvrekis, Angelika Kokkinaki, Eleni - Emmanouela Koumantaki, Chrysoula Liakou (2020), **Springer, "Telemedicine in shipping made easy - Shipping eHealth solutions"**, EMCIS 2020, 17th European Mediterranean & Middle Eastern Conference on Information Systems , Dubai – UAE, DOI: 10.1007/978-3-030-63396-7_33. (q1)
This research study aims to highlight the main weak and strong points of existing telemedicine technologies as well as to propose the creation of a new, innovative and financially efficient system of telemedicine which can be used in the maritime industry. In addition to main applications and details of the new system, the article describes and expounds on necessary equipment as well as personnel training.
https://www.dropbox.com/s/ijq9o0a4yzyb2pf/Koumantaki2020_Chapter_TelemedicineInShippingMadeEasy.pdf?dl=0
12. Ioannis Filippopoulos, Yiannis Kiouvrekis, Angelika Kokkinaki, Yiannis Tsilikas, Panagiotis Efstathiadis, Anna Karanika (2020), **Springer,** "**Extensive Use of RFID in Shipping**", EMCIS 2020, 17th European Mediterranean & Middle Eastern Conference on Information Systems , Dubai – UAE, DOI: 10.1007/978-3-030-63396-7_54. (q1)
Radio Frequency Identification (RFID) Technology is a part of supply chain systems but has not been fully integrated in the shipping industry to date. Port and terminal management teams already make use of this technology to verify cargo information, reduce waiting times and prevent bottlenecks. The adoption of RFID technology in the shipping industry can provide invaluable real-time information about a ship's crew and cargo.
This study deals with RFID-based solutions concerning issues of cargo security and handling, as well as tracking of the crew in emergency situations. Although some maritime companies have upgraded their fleet with modern management systems, there is still much to be gained by the wide use of more RFID applications in shipping. We will expound on some of the most useful RFID applications in the maritime sector and discuss their respective advantages and disadvantages.
https://www.dropbox.com/s/i19wnbw1b6c9nx5/Karanika2020_Chapter_ExtensiveUseOfRFIDInShipping.pdf?dl=0
13. Ioannis Filipopoulos, (2021), **IET, (chapter) "Real-time information with ITS technology"**, Michele Fiorini and Natalie Gupta (Eds.), **Book:** "ICT Solutions and Digitalisation in Ports and Shipping", The Institution of Engineering and Technology, ISBN-13: 978-1-83953-086-9. (q4)
Given the volumes of global ship traffic, solutions are needed to reduce waiting times, costs, energy consumption and emissions. This systematic reference on ICT solutions and digitalisation in the ports and shipping sector covers new and existing technologies, different types of digital systems, and offers illustrative examples and case studies. The aim of this work is to examine the application of ICT solutions and digitalisation to the movement and clearance of freight at seaports globally. It provides conceptual clarity on the applicability of the different technologies and systems used for this purpose, and the relevance of such projects for different types of ports, from a trade facilitation perspective.
https://www.dropbox.com/s/0fth88lymi2h8fj/ICT%20Solutions%20and%20Digitalisation%20in%20Ports%20and%20Shipping.pdf?dl=0
14. Y.Kiouvrekis, V.Softa, I. Filippopoulos , K.Kappas, (2021), **Elsevier**, "**Unsupervised Machine Learning and EMF radiation in schools: a study of 205 schools in Greece"**, European Journal of Medical Physics, European Congress of Medical Physics ECMP Torino, 16-19 June 2021, DOI:10.1016/s1120-1797(22)00517-8. (q2)
The expansion of network infrastructure in Greece has raised concerns about the possible negative health effects on sensitive groups, such as children, from exposure to long-term radiofrequency electromagnetic fields (RF-EMFs). The objective of this study is to apply Unsupervised Machine Learning methods such as hierarchical clustering, in order to establish patterns of EMF radiation in schools. To

this end we performed measurements in the majority schools units in the region of Thessaly in order to calculate the mean value for RF - EMF exposure in the 27 MHz - 3 GHz range, which covers the whole spectrum of RF - EMF sources. Hierarchical clustering dendrogram analysis shows that population density in urban areas of Thessaly bears no relation to the level of EMF exposure in schools. Furthermore, in 97.5% of schools found in the Thessaly region, the exposure level is at least 3500 times below the Greek exposure limits while in 2.5% it is a little less than 500 times below the limit.
https://www.dropbox.com/s/rpwvvp5zy3xce9v/MLRF.pdf?dl=0

15. Y.Kiouvrekis, A.Alexias, V.Softa, I. Filippopoulos, K.Kappas, (2021), **Elsevier,** "**RF-EMF exposure levels in municipal waste collection service and ELF-EMF exposure levels at the electric railway system of Greece"**, European Journal of Medical Physics, European Congress of Medical Physics ECMP 2020 - Torino, 16-19 June 2021, DOI:10.1016/s1120-1797(22)00518-x. (q2)
This work on one hand tries to examine the potential impact of RF coming from two "hidden" sources, professional GPSs in municipality waste collection service, and at the other hand detects the ELF at the electric railway system. According to our measurements Trikala municipal workers and train passengers, employees and engineers are exposed at doses well below the national and international safety limits.
https://www.dropbox.com/s/wni6ft9jpx3qzxv/15%20Abstract_Train.pdf?dl=0
16. I. Filippopoulos, A. Voliotis, S. Oikonomou, Y. Kiouvrekis, (2021) "**Maritime Cybersecurity Practices Scheme on a 'Cyber-Safety' Black Box"**, ISERD International Conference on Recent Innovations in Engineering and Technology (ICRIET), Crete, Greece, 08-09 October,2021.
It is generally known and accepted that new areas of vulnerability are born and elevated in a fast connected and technologically dependent world. This paper explores the unique challenges of maritime cybersecurity to understand better the issues with securing vessels at sea, together with the shore-based infrastructure supporting this industry. More specifically, this paper drives through the possible cyber-attacks on maritime-related systems for navigation, propulsion, and cargo-related functions. The author illustrates the potential severity of the problem by providing a practice scheme of vessel cyber security by using a smart device that we call a cyber-safety black box.
https://www.dropbox.com/s/u851m7xbklbtygw/Maritime%20Cybersecurity%20Practices%20Scheme_v3.pdf?dl=0
17. Ioannis Filippopoulos, Morfo Tsaknaki (2022), "**Greek Maritime's Future on Digital Transformation Era"**, ISER International Conference on Economics and Business Research (ICEBR), Singapore, 20-21 March, 2022.
This research is about one of the most traditional countries in shipping industry. We are evaluating how shipping positively or negatively affects the Greek economy, and of course the environment. Then innovative technologies and frameworks are proposed that will contribute to the improvement of the industry. Steps are proposed towards the digital transformation that will modify the processes and will improve the management of the environment and will ensure the continuous upward course of the industry. Finally, a prediction is made about what will happen in the near future.
https://www.dropbox.com/s/7rfx69uhjr1id9c/Greek%20Maritime%20s%20Future%20on%20Digital%20Transformation%20Era%20Paper.pdf?dl=0
18. Angelos Boumpousis, Ioannis Filippopoulos, Nicholaos Papadakis (2022), "**Octant System Architecture"**, ISER International Conference ICABMIS, Milan, Italy, 29-30 May 2022.
This electronic document has the aim to define a high-level hierarchy of OCTANT system architecture, including the modules and their components from which OCTANT consists of. It also describes more thoroughly the way each separate project part works.
https://www.dropbox.com/s/bo8erz9rixj7hd9/Octant%20System%20Architecture.pdf?dl=0
19. Angelos Boumpousis, Ioannis Filippopoulos, Nicholaos Papadakis (2022), "**Octant Project Management and Security"**, ISER International Conference ICSTEM, Edinburgh, UK, 7-8 June 2022.
This electronic document aims to describe the Project Management principles and Security standards used throughout all the development iterations of the OCTANT project in order to provide the reader with a deeper understanding of the latest and most modern practices applied.
https://www.dropbox.com/s/2que67a27pxg40o/OCTANT%20PROJECT%20MANAGEMENT%20AND%20SECURITY.pdf?dl=0
20. Theodor Panagiotakopoulos, Ioannis Filippopoulos, Yiannis Kiouvrekis, Zoran Lajic, Antonis Violaris, Sotirios Panagiotis Chytas (2022), **IEEE,** "**Vessel's trim optimization using IoT data and machine learning models"**, IEEE / International Conference on Information, Intelligence,

Systems and Applications (IISA), Ionian University, Corfu, Greece,18-20 July 2022, DOI: 10.1109 /IISA56318.2022.9904361. (q1)

The shipping industry is an important source of greenhouse gas emissions, such as carbon dioxide, methane and nitrogen oxides. In the past few years, environmental and policy reasons dictate the immense reduction of greenhouse gas emissions in industries worldwide. Towards this direction, the shipping industry has focused on ship trim optimization in the last few years as an operational measure for better energy efficiency and thus a way to reduce consumption and energy related emissions. In this paper, we present a machine learning solution to the problem of trim optimization. Specifically, we use Internet of Things (IoT) data for speed, draft, and trim in order to accurately predict shaft power. After our machine learning model is trained, we use its predicting capabilities to create the shaft power surface as part of the trim monitoring user interface of the maritime company infrastructure.

https://www.dropbox.com/s/6rfsd2luiudar17/87%20Vessel%E2%80%99s%20trim%20optimization%20using%20IoT%20data%20and%20machine%20learning%20models.pdf?dl=0

21. Ioannis Filippopoulos, Charalampos Skiadas, Antonis Violaris, Yiannis Kiouvrekis (2022), **IEEE,** "**Live Vessels' Monitoring using Geographic Information and Internet of Things"**, IEEE / International Conference on Information, Intelligence, Systems and Applications (IISA), Ionian University, Corfu, Greece,18-20 July 2022,DOI: 10.1109/IISA56318.2022.9904408. (q1)

The purpose of this paper is to present the GIS Vessels Monitoring Platform, an integration platform, which collects information from various, heterogeneous internal and external sources and represents the collected information in a uniform way using a Geographical Information System. Furthermore, the collected information from Internet of Things (IoT) data sources for various critical parameters, such as the engine performance, gas emissions, navigation and vessel performance, is further used for analysis and as an input to both a decision support and an alerting system operated by the Maritime Company that monitors the vessels. More specifically, the paper discusses how the platform provides the management company and their departments with all the necessary information for monitoring a vessel in near real time.

https://www.dropbox.com/s/hori3n0hw3et56w/88%20Live%20Vessels%E2%80%99%20Monitoring%20using%20Geographic%20Information%20and%20Internet%20of%20Thin.pdf?dl=0

22. Yiannis Kiouvrekis, Theodor Panagiotakopoulos, Iakovos Ouranos, Ioannis Filippopoulos (2022**), (chapter), Springer, "Artificial Intelligence, Big Data Analytics and Smart Cities"**, **Book:** "Building on Smart Cities Skills and Competences", Springer, editor Professor Dr. Panos Fitsilis, ISBN: 978-3-030-97818-1. (q1)

Modern urban life is seeing an increasing rate of adoption of artificial intelligence and smart solutions; however, citizens are still struggling to keep up the pace, and the rate at which they acquire skills and knowledge around artificial intelligence and data analysis in smart cities is lagging behind. This paper is an attempt to determine which digital skills are necessary when dealing with smart cities. The article is structured as follows: we first refer to the two basic and fundamental branches of artificial intelligence and continue with applications that exist in these branches regarding smart environments. The research contribution of this article is important since it is one of the few in the international literature dealing with all branches of AI and big data (e.g machine learning and rule based applications) in smart cities. The conclusion of the present work is that there is an urgent need to create an education system in the new concepts of AI and Big Data Analysis not only for scientists but also for citizens.

https://www.dropbox.com/s/gbbym3xbynmlyuj/Artificial_Intelligence__Big_Data_Analytics_and_Smart_Cities.pdf?dl=0

23. Ioannis Filippopoulos, Charalampos Skiadas, Antonis Violaris, Morfo Tsaknaki, Yiannis Kiouvrekis (2022), **IEEE, "Road-Map for Digital Transformation in Shipping Industry: A Real Use Case",** IEEE / Global Conference on Artificial Intelligence and Internet of Things (GCAIoT), Alexandria, Egypt, 18-21 December 2022. (q1)

During the last decade, we have witnessed a widespread adaptation of recent developments in technology, such as Internet of Things and Cloud Platforms, to a vast majority of industries. The adaptation of new technologies that impacts also the nature of the business by changing its workflows and its culture is called digital transformation. In this paper, we present the road-map for digital transformation that we follow in the shipping company Angelicoussis Group and we analyse how the industry's specific characteristics affected our strategy and implementation.

https://www.dropbox.com/s/50d2o52g6t3ezah/Digital%20Transformation.pdf?dl=0

24. Sergey Dobrinov, Olga Kandinskaia, Ioannis Filippopoulos (2023), **"Investment Decision Rationale in Energy Shipping: Case from Cyprus",** CEVI / 9th Multinational Energy and Value Conference ESG in the Energy Sector, Louvain-La-Neuve, Belgium, 11-13 May.
    In light of the current upward trend in the crude oil freight rates and anticipating investment interest in energy shipping, we have prepared this conference paper to show a specific investment rationale from a 2018 oil tanker case from Cyprus. Re-visiting the 2018 analysis today in early 2023 gives interesting insights into the investment decision rationale in energy shipping and the ability of experts to predict market trends when it comes to the oil tankers supply and demand and the resulting freight rates. By its research design, this paper is a case study analysis, in which qualitative methods, such as interviews with experts and personal observations, were combined with quantitative data, both secondary and primary, to set a conceptual decision framework for the purchase of an Aframax oil tanker and apply it to the specific case.
    https://www.dropbox.com/scl/fi/isd19enepiks2czq61wy9/2023-Energy-shipping-case-study-CEVI-FINAL.pdf?rlkey=jvehigxna28zxy8t08kv097h2&dl=0
25. Ioannis Filippopoulos, Zoran Lajic, Christos Papageorgiou, Konstantinos Sdrakas, Olga Kandinskaia, Yiannis Kiouvrekis (2023), **"Creating value along the path to zero-emission shipping industry",** CEVI / 9th Multinational Energy and Value Conference ESG in the Energy Sector, Louvain-La-Neuve, Belgium, 11-13 May.
    As the margins of the ecological burden on the planet are limited, it is imperative that new measures techniques should be found immediately in order to reduce pollution that continues to grow every year. Simultaneously, the increased needs of the population and the expected growth in many economies are leading to increased energy consumption. Thus, all industries with large energy consumption, including shipping, should switch to greener solutions in order to reduce their energy footprint. As a result of these considerations, various agreements –such as the Paris' Agreement in 2016 and International Maritime Organisation's Regulation in 2020– have been created aiming to set some limits on pollutants that everyone must comply with. The purpose of this paper is to analyse how existing regulations affects the shipping industry, how various technologies or new fuels that could be environmentally sustainable could be applied to the shipping fleet, what would be the costs that each ship would need to bear, what would be their overall benefits and how one can create value towards the path to zero-emission shipping. Additionally, we demonstrate some new applicable fuels and projects that use renewable energy mainly on trial level. The transition to renewable energy is a complex issue for companies, quite costly, so it is easy to understand that it will have to be thoroughly studied before final decisions are taken. At the same time, each company must act swiftly to meet the standards have been implemented, so as to avoid possible fines.
    https://www.dropbox.com/scl/fi/fookhknpgg0868suckm6i/2023-Renewable_Energy_in_Shipping.pdf?rlkey=cw8z942rvn2ob0nop65ai9z2x&dl=0

Conferences Contributions

1. Ioannis Filippopoulos, 2017, “Collecting and using vessel's live data from on board equipment”, RSCy2017 / Fifth International Conference on Remote Sensing and Geoinformation of Environment, Paphos, Cyprus, March 2017.
2. Ioannis Filippopoulos, 2017, “Transferring Structured Data between Vessel and Office and Applying Business Processes in Remote Environments”, 3rd ShipIT Conference, Athens, Greece, September 2017.
3. Ioannis Filippopoulos, 2018, “Cyber Security & Vessels’ Internet of Thinks Platform”, Maritime Cyber Security Summit, London, United Kingdom, March 2018.
4. Ioannis Filippopoulos, 2018, “Transferring Structured Data between Vessel and Office and applying business processes in remote environments on MarineInfo Platform”, EMC 2018 8th International Symposium, Zrenjanin, Serbia, June 2018.
5. Ioannis Filippopoulos, 2018, “Cyber Security & Vessels' Internet of Thinks Platform”, 4th ShipIT Conference, Athens, Greece, September 2018.
6. Kostas Grivas, Ioannis Filippopoulos, 2018, “Information Systems Security in Shipping, according to ISO 27001”, Sep 2018, 4th ShipIT Conference, Athens, Greece, September 2018.
7. Charalmpos Skiadas, Ioannis Filippopoulos, 2018, “Business Case: Modern Procurement Department”, Oct 2018, 2nd IMPA Procurement Forum, Athens, Greece, September 2018.
8. Ioannis Filippopoulos, 2018, "Digital Transformation in the Procurement Process", Dec 2018, 1st Contract Performance Management Conference, Athens, Greece, December 2018.
9. Liakou CI, Filippopoulos Ioannis et al, “Hyperlipidemia, Obesity and tobacco use among 2827 Greek Seafarers”, April 23-24, 2019. 5th Edition of International Conference on Occupational Health and Public Safety. Berlin, Germany.
10. Ioannis Filippopoulos, 2019, "Collecting and Using Vessel's live data from on board equipment using IoV platform", Maritime Path, Department of Electrical and Computer Engineering, University of Thessaly, Volos, Greece, March 2019.
11. Ioannis Filippopoulos, 2019, "IoT and Smart Grids: A new era in energy management, efficiency and sustainability for FM", 5th Facility Management Conference, Athens, Greece, March 2019.
12. Ioannis Filippopoulos, 2019, "Creating and Internet of Vessels for Real Time Data Collection", May 2019, Smart Maritime Network Athens Conference, Athens, Greece, May 2019
13. Ioannis Filippopoulos, 2019, "Digital Transformation: A Maritime Success Story", Digital Business Transformation Conference, Athens, Greece, May 2019.
14. Ioannis Filippopoulos, 2019,”Digital Transformation in Shipping”, 5th ShipIT Conference, Athens, Greece, Sep 2019.
15. Ioannis Filippopoulos, 2019,”Digital Transformation in Shipping”, ACI Digitalisation in Shipping Conference, Hamburg, Germany, Oct 2019.
16. Ioannis Filippopoulos, Spiros Christopoulos, Dimitris Tolias, 2020, “COVID-19 pandemic: Shifting Modality. The Case of Hellenic American University", Digital Business Transformation Conference, June 2020.
17. Ioannis Filippopoulos, 2020,” Creating an Internet of Vessels (IoV) platform for Real Time Data Collection”, CSN 1st Cyprus Shipping ICT Conference, Sep 2020.
18. Ioannis Filippopoulos, 2020,”Vessel Trim Analyzer and Optimization Platform”, 6th ShipIT Conference, Athens, Greece, Sep 2020.
19. Ioannis Filippopoulos, 2021,”Shipping Industry’s Digital Transformation in Favour of Ports”, 7th Port Automation Summit, Singapore, May 2021.
20. Ioannis Filippopoulos, 2021, “Vessel Trim Analyzer and Optimization Platform”, The Data Conference, Sep 2021
21. Ioannis Filippopoulos, 2021, “Digital Transformation in the Shipping Industry”, CSN 1st Cyprus Shipping ICT Conference, Oct 2021