



**Ioannis Filippopoulos**, Associate /Assistant Professor

PhD, MBA, MSc, BSc, , PM<sup>2</sup>

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## Associate / Assistant Professor

Maritime Industry Expert ▪ Chief Information Officer ▪

Chief Technology Officer ▪ Digital Transformation Specialist ▪ Project Manager ▪ Information Systems Specialist ▪

Business Intelligence Manager ▪ Business Intelligence Architect ▪ Functional Architect

### Professional Profile

A “*technology architect*” and a “*team leader*”, a maritime industry expert with an exceptional passion aptitude for teaching and working with computers combined with an astounding academic background in computer, network, and software engineering (PhD) and business management (MBA). Skilled in implementing, maintaining, supporting, developing, and designing technology systems, ensuring a reliable and efficient network to keep the organization running smoothly and profitably. He is teaching and researching innovative systems and platforms as a Professor at Greek, Cypriot and International Universities. He is specialized in Geographical Information Systems. IoT, Big Data, AI, ML and Blockchain platforms. He is, for almost a decade, implementing Digital Transformation in the shipping industry as CIO at a top-performing maritime management company and as a consultant.

**Business Analysis ▪ BI ▪ ERP  
▪ CRM ▪ GIS ▪ IoT ▪ MoC ▪  
BlockChain ▪ AI ▪ Big Data ▪  
Machine Learning ▪  
Project management ▪  
Risk management ▪ IMO ▪  
eSMS ▪ TMSA ▪ MEPC**

### Core Competencies

- Excellent teacher, well-educated and trained with astonishing transmit knowledge capability to the audience.
- Exceptional analytical & troubleshooting skills. Strong decision-making skills when under pressure.
- Excellent Connoisseur of internal procedures and processes in a Shipping Company.
- Ensuring the integrity of high availability software/ hardware infrastructure & defining system standards.
- Adept at relaying business information into understandable terms; Effective technology consulting.
- Interpersonal skills; work well as a team member with people at all levels and of various cultures.
- Highly disciplined and motivated with the ability to manage, motivate and guide efficient work teams.
- Cyber Security specialist with experience in cloud computing and private corporate security systems.

### Education

<b>Doctor of Philosophy (PhD) in Computer &amp; Networks Engineering</b>	11/2006 – 10/2012
University of Thessaly / Volos, Greece	
Doctoral Research Project: “ <a href="#">Managing Forest Fires with i-Protect Fire Simulation Module</a> ”, doi: 10.12681/eadd/29344	
<b>Master of Art in Business Administration (MBA) (2-year curriculum)</b>	awarded: 06/2008
Middlesex University of London	London, UK
<b>Master of Science (MSc) in Information Technologies (IT) (2-year curriculum)</b>	awarded: 10/2004
Kapodistrian University of Athens / Telecommunications & Informatics Department	Athens, Greece
Thesis: “ <a href="#">Innovative Technologies in IT &amp; Communications</a> ”	
<b>Bachelor of Science (BSc) in Military Training (4-year curriculum)</b>	awarded: 06/1994
Military Academy of Athens (SSE)	Athens, Greece

### Work History

<b>University of Limassol / CIIM - Cyprus International Institute of Management</b>	01/2021 – present
<b>Assistant Professor / MSc Shipping Operation &amp; Management</b>	
▪ “ <i>Environmental Management &amp; Safety in Shipping</i> ”, “ <i>Shipping Operations, Optimizing Performance &amp; Analytics</i> ”, “ <i>Foundations of Business Information Technology</i> ”, “ <i>Algorithms and Data Structures</i> ”	
<b>Wealth Fund Services</b>	01/2022 – present
<b>Non-Executive Director</b>	
▪ <i>Board Member, Head of Risk Management.</i>	
<b>Infralabs Ltd</b>	01/2018 – present
<b>Technical Consultant</b>	
▪ <i>Offer advice and expertise to client organizations to help them improve their business performance in the field of maritime information systems</i>	
<b>University of Cyprus</b>	05/2022 – 12/2022
<b>Visiting Professor/ Graduate School, MSc Artificial Intelligence</b>	
▪ “ <i>Data Visualization</i> ”, “ <i>Capstone</i> ”	
<b>Cyprus University of Technology</b>	09/2021 – 12/2022
<b>Visiting Professor / Faculty of Engineering and Technology, Department of Civil Engineering and Geomatics</b>	
• “ <i>Geography and Spatial Analysis</i> ”, “ <i>Database Systems</i> ”	
<b>European University of Cyprus</b>	09/2021 – 09/2022
<b>Visiting Professor / Department of Computer Science &amp; Engineering</b>	
▪ “ <i>Data Mining &amp; Data Web Mining</i> ”, “ <i>Software Engineering I</i> ”, “ <i>Software Engineering II</i> ”, “ <i>Healthcare Information Systems</i> ”	
<b>University of Nicosia</b>	06/2020 – 08/2022
<b>Visiting Professor / School of Business, BSc Energy, Oil and Gas Management / MBA</b>	
• “ <i>Sustainable Futures</i> ”, “ <i>Environmental Impact Management</i> ”, “ <i>Global Climate Change and Adaptation</i> ”, “ <i>Energy Safety and Risk Management</i> ”, “ <i>Health Safety &amp; Risk Management</i> », « <i>Enterprise Information Systems</i> ”	
<b>Hellenic American University</b>	02/2019 – present
<b>Director of Informatics and Engineering Technology Programs - Assistant Professor (02/2019 – 01/2021)</b>	

- Responsible for the effective management and operation of the Division in regard to scheduling of courses, staffing, and supervision of faculty as well as with the correct and consistent implementation of all College policies.
- Having a full Research Agenda. Teaching Responsibilities. Student mentoring. Participation in academic committees.

**Visiting Professor (01/2019 – present)**

- “MIS”, “Data Structures & Algorithms”, “Shipping Operations and Management”.

**University of Thessaly**

10/2015 – 12/2022

**Visiting Professor / Department of Computer Science (10/2015 – 12/2022)**

- “Information Technology in Shipping”, “Secure Platform Development”, “Incident Handling”.

**Postdoctoral Researcher / Department of Planning and Regional Development (09/2019 – present)**

- “Adjusted urban expansion models” using GIS.

**Angelicooussis Group**

(6 yrs 9 mos) 02/2012 – 10/2018

**Chief Information & Technology Officer (10/2015 – 10/2018)**

- Handled a team of 25 people and a budget of 15 million \$. Proposed and Designed innovative software (and Hardware) solutions to accomplish Group's business objectives and support corporate profitability.

**Applications Design & Development Department Manager (04/2014 – 09/2015)**

- Handled a team of 5 people and a budget of 5 million \$

**ICT Officer (02/2012-03/2014)**

(17 yrs 7 mos) 07/1994 – 01/2012

**Army General Staff****ICT Manager / Head of IT Department Defense High Military Support Service (08/2010 – 01/2012)**

- Handled a team of 7 people and a budget of 0.7 million \$

**Deputy Commander Military Research and Technology Center (07/2008 – 08/2010)**

- Handled a team of 40 people and a budget of 3 million \$

**Team Leader: Website Administrator - Analyst • Greek Ministry of Defense (02/2005 – 07/2008)****Chief of Dept. “Personnel Management and Control System” / System Administrator Military IT Center (10/2004 – 02/2005)****Deputy Chief of Dept. C4I / System Administrator - Junior Developer – Defense IT Directorate (07/2001 – 10/2004)****Head of Unit: Unit Manager – Director of various Echelons of the Greek Army (06/1994 – 07/2001)****Additional Professional Engagements & Part-Time Work**

Epsilon International SA • Consulting & Technology Engineering	<b>Team Leader - Analyst – Project Manager</b>	07/2009 – 07/2011
Enthalpy Information System LTD • Consulting & Swr Integration Solutions	<b>PM for GIS Projects – Analyst</b>	09/2007 – 08/2010
GeoValues • Urban Planning	<b>System Administrator • Senior Developer - Team Leader</b>	09/2004 – 03/2009
Analysts Training Institute/Army General Staff/Lecturer	<b>“Data Structures”, “Internet Technology”, “VB.Net”, “C#. Net</b>	09/2006 – 02/2011
Institute of IT Officers / Army General Staff / Lecturer	<b>“Secure Networks”, “Information Systems Security”</b>	09/2006 – 02/2011
Vocational Training Institute / Lecturer	<b>“Programming in C++”, “Methodology of Dev. Apps”, “DBA MS-SQL Server”</b>	09/2003 – 02/2010
Athenian & SBS College/Lecturer	<b>“Data Analysis and Database Design”, “Visual Programming”</b>	02/2002 – 07/2006

**Board Memberships, Professional Associations and Affiliations**

- Member of **(IEEE) the Institute of Electrical and Electronics Engineers** (2016)
- Board Member of **(AMMITEC) the Association of Maritime Managers in Information Technology and Communications** (2015)
- Member of **PM<sup>2</sup> Alliance** (2020)
- Member of **Cyprus Maritime Club** (2023)
- Member of **Propeller Club** (2023)

**Publications (key)**

- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- Koumantaki E., Filippopoulos I., Kokkinaki A., Liakou C., Kiouvrekis Y. (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.
- Karanika A., Filippopoulos I., Kokkinaki A., Efstathiadis P., Tsilikas I., Kiouvrekis Y. (2020), **Springer**, “**ExtensiveUse 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.
- Filippopoulos I. (2021), **IET, (chapter) Real-time information with ITS technology**, **Book**: ICT Solutions and Digitalisation in Ports and Shipping, The Institution of Engineering and Technology, ISBN-13: 978-1-83953-086-9.
- Ioannis 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.

- XII. Theodor Panagiotakopoulos, Ioannis Filippopoulos, Yiannis Kiouvrekis (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.
- XIII. Ioannis Filippopoulos, Charalampos Skiadas, 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.
- XIV. Yiannis Kiouvrekis, Theodor Panagiotakopoulos, Iakovos Ouranos, Ioannis Filippopoulos (2022), **Springer, (chapter) 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.
- XV. 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.
- XVI. 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.

### Major Collaborations- Implementations

- 2022** Green Shipping Platform using Machine Learning, Infralabs LTD, CMARE Environmental LTD, Angelicoussis Group
- 2020** Vessels Performance Monitoring Platform. Infralabs LTD, Angelicoussis Group.
- 2019** OCTANT Ship Fleet Management Platform. European Structural and Investment Funds Partnership Agreement '24. Navios Maritime, Alassia Maritime, Space Hellas SA
- 2018** 5GENESIS: 5th Generation End-to-end Network, Experimentation, System Integration (EU 5G-PPP). Angelicoussis Group (29 Partners), Project ID: 815178 Call: H2020-ICT-2018-1.
- 2017** Angelicoussis Group's Enterprise Platform Solution. Best Practice Consulting SA, Angelicoussis Group.
- 2014** Mini Intranet - eSMS platform on Vessels. Best Practice Consulting SA, Angelicoussis Group.
- 2014** IoT on Vessels Platform. Angelicoussis Group, Infralabs LTD.
- 2011** i-Protect: An Open Source Emergency Management Framework.
- 2010** “BRISEIDE: BRIdging SERVICES & Information Data for Europe”. Epsilon SA, (14 Partners) Project ID: CIP-ICT-PSP.2009.6.2, Geographic Information, CIP-Pilot Actions (FP7).
- 2004** “Fire Brigade Computer Based Dispatching System (CBD), GIS Platform”. Athens 2004 Olympic Games event crisis management, Epsilon SA.
- 2000** “Project of South-Eastern European Emergency Situation Network Committee (SEESIM)”. Army General Staff

### Technical Skills

Maritime Industry:	IMO, TMSA, BMSA, MEPC, AER, EEOI, (e)SMS, HSQE, ISO45001/14001/31000/27001/50001
IT Governance & Mgmt:	COBIT 5 ▪ ISO/IEC 38500 ▪ ITIL ▪ ISO/IEC 20000-1 ▪ ISO 19439 ▪ ISO/IEC/IEEE 42010
Database Administration:	MS SQL Server, MySQL, Oracle, Postgre, Spatial DBs
Project Management:	PM <sup>2</sup> Advance, Prince2, PMI, Agile, Scrum
Modeling Language:	UML, IDEF, EEML, Flowchart, BPMN
Software Development:	MS Visual Studio, VB, C#, Sharepoint, BI Tools SSRS, SSAS, SSIS, C++, Javascript, Python
GIS Development:	ESRI ArcGIS Server, ESRI ArcIMS, AspMap, Google Maps, Leaflet, Geo Server
Research Interests	GIS, IoT, AI, Machine Learning, Big Data, BlockChain

### Additional Information

Languages:	Greek: Native speaker ▪ English: Excellent written and oral communication skills
Distinctions:	<ul style="list-style-type: none"> <li>▪ Awarded with the <b>Golden Cross by the Order of the Phoenix</b>, by the President of the Hellenic Republic (2012)</li> <li>▪ Awarded with the <b>Second-Class Military Medal</b>, by the President of the Hellenic Republic (2016)</li> </ul>
Certifications-Courses:	<ul style="list-style-type: none"> <li>▪ <b>NATO Information Operations Course</b> (2005), NATO School Oberammergau, Germany</li> <li>▪ <b>ISO 45001:2018 OH&amp;S Management System INTERNAL AUDITOR</b> (2021), TUV Hellas (Nord Group)</li> <li>▪ <b>PM<sup>2</sup> Advance</b> (2020), PM<sup>2</sup> Alliance Certification</li> <li>▪ <b>Management by Objectives and Performance Measurement</b> (2010) National Center for Public Administration</li> <li>▪ <b>ITIL Foundation</b> (2017), ILX</li> <li>▪ <b>Prince2 Foundation</b> (2017), ILX</li> <li>▪ <b>Risk Management for Business Professionals</b> (2019), Human Asset</li> <li>▪ <b>Diploma Project Management</b> (2019), IBMI</li> <li>▪ <b>Innovation Management</b> (2019), IBMI</li> <li>▪ <b>Financial Management</b> (2019), IBMI</li> <li>▪ <b>Analysis &amp; Software Development</b> (2001) (6 months), Software Development School (Army General Staff)</li> <li>▪ <b>Computer Programming and Operations</b> (1995) (1 year), Interface</li> </ul>
Interests:	Sailing – Reading