



### Academic Personnel Short Profile / Short CV

|                             |  |
|-----------------------------|--|
| <b>University:</b>          | University of Nicosia  |
| <b>Surname:</b>             | Yfantis  |
| <b>Name:</b>                | Elias  |
| <b>Rank/Position:</b>       | Assistant Professor/BSc Mechanical Engineering Program Coordinator |
| <b>Faculty:</b>             | Sciences & Engineering   |
| <b>Department:</b>          | Department of Engineering  |
| <b>Scientific Domain: *</b> | Mechanical Engineering   |

*\* Field of Specialization*

| Academic qualifications<br>(list by highest qualification) |      |   |                                  |                               |
|--|------|---|----------------------------------|-------------------------------|
| Qualification  | Year | Awarding Institution                    | Department                       | Thesis title (Optional Entry) |
| PhD  | 1992 | National Technical University of Athens | School of Mechanical Engineering |                               |
| MSc Mech Eng   | 1987 | National Technical University of Athens | School of Mechanical Engineering |                               |



### Employment history in Academic Institutions/Research Centers–List by the three (3) most recent

| Period of employment |         | Employer                             | Location | Position                        |
|----------------------|---------|--------------------------------------|----------|---------------------------------|
| From                 | To      |                                      |          |                                 |
| 2020                 | onwards | Cyprus Marine and Maritime Institute | Cyprus   | Senior Scientist                |
| 2017                 | onwards | University of Nicosia                | Cyprus   | BSc Mech EngProgram Coordinator |
| 1995                 | 2017    | Hellenic Naval Academy               | Hellas   | Professor of Marine Engines     |

**Key refereed journal papers, monographs, books, conference publications etc. List the five (5) more recent and other five (5) selected – (max total 10)**

| Ref. Number | Year | Title   | Other authors  | Journal and Publisher / Conference  | Vol. | Pages         |
|-------------|------|---|--|---|------|---------------|
| 1           | 2020 | Thermo-dynamic Analysis and Optimization of a Dual-Loop Regenerative Supercritical CO <sub>2</sub> Brayton Cycle/ORC System Coupled to the Main Diesel Engine of a Bulk Carrier | Vallis A G, Zannis T C, Asimakopoulou K D, Pariotis E G and Katsanis J S | 14th Annual Meeting on Marine Technology, Hellenic Institute of Marine Technology, Greece |      |               |
| 2           | 2013 | Greek National Potential and the Design of a New Naval Vessel   | Editor and co-author   | Book  |      | 451           |
| 3           | 2013 | Internal Combustion Engines Computational Applications  | Hountalas, D.T., Zannis, T.C. & Papagiannakis, R.G.                      | Book  |      | 445           |
| 4           | 2013 | Critical Review of the Effects of Diesel Fuel Composition and Properties on Engine Performance and Pollutant Emissions  | Zannis, T.C., Hountalas, D.T., Papagiannakis, R.G. & Levendis, Y.A.      | Chapter in Book   |      | pp. 1-59      |
| 5           | 2013 | Diesel Engines  | Zannis, T.C., Levendis, Y.A., Hountalas, D.T. & Papagiannakis, R.G.      | “Diesel Fuels: Characteristics, Performances and Environmental Impacts”                   |      | pp. 681-710   |
| 6           | 2010 | Theoretical Study of the Effects of Engine Parameters on Performance and Emissions of a   | Papagiannakis, R.G., Zannis, T.C., Kotsiopoulos, P.N., Hountalas, D.T. & | Chapter in Book “Oxygen-Enhanced Combustion”  |      | pp. 1129-1138 |

|    |      |  |  |   |                  |                       |
|----|------|--|--|---|------------------|-----------------------|
|    |      | Pilot Ignited Natural Gas Diesel Engine  | Rakopoulos,C.D   |   |                  |                       |
| 7  | 2017 | Natural Gas Combustion in Marine Compression Ignition and Spark Ignition Engines: A Technological, Environmental and Economic Evaluation   | Zannis, T.C., Katsanis, J.S., Pariotis, E.G., Papagiannakis, R.G. & Mohr, H.   | Journal "Energy"  | Vol. 35, Issue 2 | Proc. pp. 99-108      |
| 8  | 2016 | A Simple Methodology for the Evaluation of Installing Variable Speed Drive Pumps on the Central Cooling System of Existing Ships   | Pariotis, E.G., Zannis, T.C., Katsanis, J.S.                                   | 11th Annual Meeting on Marine Technology, Hellenic Institute of Marine Technology   | Vol. 1           | Proc. pp. 109-118     |
| 9  | 2014 | Theoretical Study of the Effect of Speed, Load and Fuel Injection Timing on a Heavy-Duty DI Diesel Engine Friction Losses The 27th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems, Finland. | Zannis, T.C., Hountalas, D.T., Papagiannakis, R.G., Katsanis, I.S. & Xenis, N. | 10th Annual Meeting on Marine Technology, Hellenic Institute of Marine Technology   | Vol. 1           | Proc. pp. 234-247     |
| 10 | 2012 | Modelling and Assessment of Compressor Faults on Marine Gas Turbines   | Roumeliotis, I., Aretakis, N., Mathioudakis, K.                                | The 27th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems, Finland |                  | Paper No 2010-01-0315 |



| Research Projects. List the five (5) more recent and other five (5) selected (max total 10) |           |  |           |  |
|---|-----------|--|-----------|--|
| Ref. Number   | Date      | Title  | Funded by | Project Role*                                    |
| 1   | 2020-2022 | HYMAR – Experimental investigation of H2 as fuel supplement in marine diesel engines | RIF       | Scientific Coordinator/Diesel Engine Performance |

*\*Project Role: i.e. Scientific/Project Coordinator, Research Team Member, Researcher, Assistant Researcher, other*



**Academic Consulting Services and/or Participation in Councils / Boards/ Editorial Committees.  
List the five (5) more recent (Optional Entry)**

| Ref. Number | Period     | Organization  | Title of Position or Service   | Key Activities |
|-------------|------------|---|--|----------------|
| 1           | 2012-      | Hellenic Institute of Marine Technology   | Member of the Scientific Committee of the Annual Meetings of Marine Technology |                |
| 2           | 1997-      | NATO Science and Technology Organization and member of the Applied Vehicle Technology Panel       | National Representative of Greece  |                |
| 3           | 2017- 2018 | Marine and Maritime Research, Innovation and Technology Center of Excellence MaRITeC-X in Cyprus. | Member of the International Academic and Industry Board                        |                |
| 4           | 2016-2017  | Hellenic Ministry of Maritime Affairs and Insular Policy  | Member of the Working Group for Strategic Planning and R&D Projects            |                |
| 5           | 2014-2016  | Municipality of Dionysos, Attica, Greece  | Vice Mayor for Strategic Planning and Development                              |                |