Harilaos N. Psaraftis - DTU Orbit (14/05/2019)

Harilaos N. Psaraftis
Professor
Department of Technology, Management and Economics
Management Science

Postal address:
Akademivej
358, 148
2800
Kgs. Lyngby
Denmark
Email: hnpsar@dtu.dk
Phone: 45251519
Mobile: 40484796

Research outputs:

Operational measures to mitigate and reverse the potential modal shifts due to environmental legislation
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Decarbonization of maritime transport: to be or not to be?
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Green Liner Shipping Network Design
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2019 › Research › peer-review

Policy measures to avert possible modal shifts caused by sulphur regulation in the European Ro-Ro sector
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Reducing GHGs: the MBM and MRV Agendas
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2019 › Research › peer-review

Reducing Sulfur Emissions: Logistical and Environmental Considerations
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2019 › Research › peer-review

Speed Optimization for Sustainable Shipping
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2019 › Research › peer-review

Speed Optimization vs Speed Reduction: the Choice between Speed Limits and a Bunker Levy
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

Sustainable shipping: A cross-disciplinary view
Research output: Book/Report › Book – Annual report year: 2019 › Research › peer-review
The enforcement of the global sulphur cap in maritime transport
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

The profit maximizing liner shipping problem with flexible frequencies: logistical and environmental considerations
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

The Role of Operational Research in Green Freight Transportation
Research output: Contribution to journal › Journal article – Annual report year: 2019 › Research › peer-review

The way ahead
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2019 › Research › peer-review

A taxonomy of carbon emission reduction measures in waterborne freight transportation
Research output: Contribution to conference › Paper – Annual report year: 2018 › Research

Key performance indicators to assess and reverse the negative impacts of SECA policies for Ro-Ro Shipping
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Lessons on multi-level governance learned from the bottom-up corridor projects in the Baltic Sea Region
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2018 › Research › peer-review

Operational measures and logistical considerations for the decarbonisation of maritime transport
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2018 › Research › peer-review

The profit maximizing liner shipping problem with flexible frequencies: balancing economic and environmental performance
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2018 › Research › peer-review

Best practice in multi-level cooperation for transport and growth in the BSR: Thematic study
Research output: Book/Report › Report – Annual report year: 2018 › Research

Model-based corridor performance analysis – An application to a European case
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

Report on the outcome of Task 3.2: Measures from policy makers
Research output: Book/Report › Report – Annual report year: 2018 › Research

Ship routing and scheduling: the cart before the horse conjecture
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

The implications of the new sulphur limits on the European Ro-Ro sector
Research output: Contribution to journal › Journal article – Annual report year: 2017 › Research › peer-review

A Simple Synchro – Modal Decision Support Tool for the Piraeus Container Terminal
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2016 › Research › peer-review

A Simple Synchro – Modal Decision Support Tool for the Piraeus Container Terminal
Research output: Contribution to conference › Paper – Annual report year: 2016 › Research › peer-review
Guest Editorial: Special Issue on Maritime Transportation and Port Logistics
Research output: Contribution to journal › Editorial – Annual report year: 2015 › Research › peer-review

Maritime routing and speed optimization with emission control areas
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

Maritime shipping and emissions: A three-layered, damage-based approach
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Maritime Transportation
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2015 › Research › peer-review

On two speed optimization problems for ships that sail in and out of emission control areas
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Slow Steaming in Maritime Transportation: Fundamentals, Trade-offs, and Decision Models
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2015 › Research › peer-review

Speed Optimization for Green Maritime Logistics: Status and Prospects
Research output: Contribution to conference › Paper – Annual report year: 2015 › Research › peer-review

The economic speed of an oceangoing vessel in a dynamic setting
Research output: Contribution to journal › Journal article – Annual report year: 2015 › Research › peer-review

The GreCOR project: Green corridor benchmarking
Research output: Book/Report › Report – Annual report year: 2015 › Research

Academic substance and location: The national technical university of Athens’ five-year program
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Combining Speed and Routing Decisions in Maritime Transportation
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2014 › Research › peer-review

Estimating the Operational Effect of a Bunker Levy: The Case of Handymax Bulk Carriers
Research output: Contribution to conference › Paper – Annual report year: 2014 › Research › peer-review

Green Maritime Logistics
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2014 › Research › peer-review

How green are the TEN-T core network corridors?
Research output: Contribution to conference › Paper – Annual report year: 2014 › Research › peer-review

Ship speed optimization: Concepts, models and combined speed-routing scenarios
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Spotlight on the Mediterranean
Research output: Contribution to journal › Editorial – Annual report year: 2014 › Research
The possible designation of the Mediterranean Sea as a SECA: A case study
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Bridging the Energy Efficiency Gap in Shipping: The case of Principal-Agent Problems in operational emission reduction measures
Research output: Contribution to conference › Paper – Annual report year: 2013 › Research › peer-review

Green Corridors in European Surface Freight Logistics
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2013 › Research › peer-review

Northern Sea Route: Effect on Modal Shift and Modal Choice
Research output: Contribution to conference › Paper – Annual report year: 2013 › Research › peer-review

Speed models for energy-efficient maritime transportation: A taxonomy and survey
Research output: Contribution to journal › Journal article – Annual report year: 2013 › Research › peer-review

An Updated Analysis of IOPCF Oil Spill Data: Estimation of the Disutility Cost of Tanker Oil Spills
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2012 › Research › peer-review

Concession of the Piraeus container terminal: turbulent times and the quest for competitiveness
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Estimating the consequence costs of oil spills from tankers
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Formal Safety Assessment: an updated review
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Green Corridors and the Trans-European Transport Network
Research output: Contribution to conference › Paper – Annual report year: 2012 › Research › peer-review

Green Corridors in European Surface Freight Logistics and the SuperGreen Project
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Market-based measures for greenhouse gas emissions from ships: a review
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Modeling tankers’ optimal speed and emissions
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Modelling tankers’ optimal speed and emissions
Research output: Contribution to conference › Paper – Annual report year: 2012 › Research › peer-review

New Regulations & Climate Change: Effect on Modal Split & Modal Choice
Research output: Contribution to conference › Paper – Annual report year: 2012 › Research › peer-review

Ship Emissions, Costs and Their Tradeoffs
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2012 › Research › peer-review
The Economics of Ships
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2012 › Research › peer-review

The SuperGreen project and green corridor benchmarking
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2012 › Research › peer-review

A multi-commodity, capacitated pickup and delivery problem: The single and two-vehicle cases
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Estimating the Consequence Costs of Oil Spills from Tankers
Research output: Contribution to conference › Paper – Annual report year: 2011 › Research › peer-review

Key performance indicators for green corridors in European freight Transportation
Research output: Contribution to conference › Paper – Annual report year: 2011 › Research › peer-review

Letter to the Editor
Research output: Contribution to journal › Letter – Annual report year: 2011 › Research

Liner shipping cycle cost modelling, fleet deployment optimization and what-if analysis
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

The effects of regulatory changes on green freight corridors
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2011 › Research › peer-review

The role of ports in Short Sea Shipping
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2011 › Research › peer-review

Balancing the economic and environmental performance of maritime transportation
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Carbon dioxide emissions valuation and its uses
Research output: Contribution to conference › Paper – Annual report year: 2010 › Research › peer-review

Concession of the Piraeus Container Terminal: Turbulent times and the quest for competitiveness
Research output: Contribution to conference › Paper – Annual report year: 2010 › Research › peer-review

Container transportation as an interdependent security problem
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Establishment of a system to compare Energy Usage and Emissions for all transport modes
Research output: Contribution to conference › Paper – Annual report year: 2010 › Research › peer-review
Green maritime logistics: some simple models
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2010 › Research › peer-review

Life-cycle co2 emissions of bulk carriers: A comparative study
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Modelling Security Aspects of Merchant Shipping: a Piracy setting
Research output: Contribution to conference › Paper – Annual report year: 2010 › Research › peer-review

Reduction of Emissions Along the Intermodal Container Chain
Research output: Contribution to conference › Paper – Annual report year: 2010 › Research › peer-review

An Online Ship Emissions Calculator as a Decision-Making Aid and Policy Evaluation Tool
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2009 › Research › peer-review

A web-based open emissions calculator
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Caspian - Black Sea - SE European Gas Corridors and the LNG parameter: A scenario bundles approach
Research output: Contribution to conference › Paper – Annual report year: 2009 › Research › peer-review

CO2 emission statistics for the world commercial fleet
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Formal safety assessment: A critical review
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Game Theory contributions to Terrorism in Merchant Shipping: an Application to Port Security
Research output: Contribution to conference › Paper – Annual report year: 2009 › Research › peer-review

Life cycle cost of maintaining the effectiveness of a ship's structure and environmental impact of ship design parameters: An update
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2009 › Research › peer-review

Liner Shipping Costs and Logistics: A Literature Survey and Taxonomy of Problems
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2009 › Communication

Ship Emissions: Logistics and Other Tradeoffs
Research output: Contribution to conference › Paper – Annual report year: 2009 › Research › peer-review

Speed Reduction as an Emissions Reduction Measure for Fast Ships
Research output: Contribution to conference › Paper – Annual report year: 2009 › Research › peer-review

The LNG market: A game theoretic approach to competition in LNG shipping
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

A model-based approach for tactical decision making in oil spill response
Research output: Contribution to conference › Paper – Annual report year: 2008 › Research › peer-review
CO₂ Emissions Statistics for the World Commercial Fleet
Research output: Contribution to conference › Paper – Annual report year: 2008 › Research › peer-review

Early Commitment and Entry Deterrence in an LNG shipping market
Research output: Contribution to conference › Paper – Annual report year: 2008 › Research › peer-review

Environmental risk evaluation criteria
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

The role of Mediterranean short sea shipping in the EU transport chain: The case of Greece
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

A decision-making model for oil spill response at the tactical level
Research output: Contribution to conference › Paper – Annual report year: 2007 › Research › peer-review

Improvements FSA as a Prerequisite for Risk-Based GBS
Research output: Contribution to conference › Paper – Annual report year: 2007 › Research › peer-review

Improving FSA as a Prerequisite for Risk-Based GBS
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2007 › Research › peer-review

Investment Rules and Competition Patterns in LNG Shipping: A Game Theory Approach
Research output: Contribution to conference › Paper – Annual report year: 2007 › Research › peer-review

Public Financing and Charging in EU seaports: The Case of Greece
Research output: Contribution to conference › Paper – Annual report year: 2007 › Research › peer-review

Radio Frequency Identification (RFID) Technology in the Ocean Container Transport
Research output: Contribution to conference › Paper – Annual report year: 2007 › Research › peer-review

RFID-enabled Innovative Solutions Promote Container Security
Research output: Contribution to conference › Paper – Annual report year: 2007 › Research › peer-review

Risk based rulemaking and design - Proceed with caution
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2007 › Research › peer-review

The Two C’s of the Risk-Based Approach to Goal based Standards: Challenges and Caveats
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2007 › Research › peer-review

The Two C’s of the Risk-Based Approach to Goal-Based Standards: Challenges and Caveats
Research output: Contribution to conference › Paper – Annual report year: 2007 › Research › peer-review

Θεσμικα μοντέλα για τον Οργανισμό Λιμενος Πειραιως
Research output: Contribution to conference › Paper – Annual report year: 2007 › Research › peer-review
The Port of Piraeus Enters the New Millennium
Research output: Chapter in Book/Report/Conference proceeding » Preface/postscript – Annual report year: 2001 » Research » peer-review

Πειραιας - Κέντρο Ναυτιλιας και Πολιτισμου
Research output: Chapter in Book/Report/Conference proceeding » Preface/postscript – Annual report year: 2000 » Research » peer-review

An Analysis of Maritime Transportation Risk Factors
Research output: Contribution to conference » Paper – Annual report year: 1998 » Research » peer-review

A Prototype Statistical Approach of Oil Pollution in the Mediterranean Sea
Research output: Contribution to conference » Paper – Annual report year: 1998 » Research » peer-review

A Statistical and Strategic Survey of Oil Pollution in the Mediterranean Sea
Research output: Contribution to conference » Paper – Annual report year: 1998 » Research » peer-review

Strategies for Mediterranean Port Development
Research output: Contribution to conference » Paper – Annual report year: 1998 » Research » peer-review

The Human Element as a Factor in Marine Accidents
Research output: Contribution to conference » Paper – Annual report year: 1998 » Research » peer-review

Reduced Manning to Increase Fleet Competitiveness
Research output: Contribution to conference » Paper – Annual report year: 1996 » Research » peer-review

Research in European Shortsea Shipping: the State of the Art
Research output: Contribution to conference » Paper – Annual report year: 1996 » Research » peer-review

The link between Greece and the rest of EU countries: Status and prospects
Research output: Contribution to conference » Paper – Annual report year: 1996 » Research » peer-review

Dynamic vehicle routing: Status and prospects
Research output: Contribution to journal » Journal article – Annual report year: 1995 » Research » peer-review

Greek Coastal Shipping System: Impact of New Technologies and Market Deregulation on Modal Split
Research output: Contribution to conference » Paper – Annual report year: 1994 » Research » peer-review

Institutional and Socioeconomic Issues in Greek Ferry Services
Research output: Contribution to conference » Paper – Annual report year: 1994 » Research » peer-review

Modal Split in Greek Shortsea Passenger/Car Transport
Research output: Contribution to conference » Paper – Annual report year: 1994 » Research » peer-review

Dynamic shortest paths in acyclic networks with Markovian arc costs
Research output: Contribution to journal » Journal article – Annual report year: 1993 » Research » peer-review

Probabilistic Ship Structural Analysis: An Incorrect Way to Compute the Probability of Failure
Research output: Contribution to journal » Journal article – Annual report year: 1993 » Research » peer-review

Impact of New Technologies on Shortsea Shipping in Greece
Research output: Contribution to conference » Paper – Annual report year: 1992 » Research » peer-review
Water Pollution
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 1983 › Research › peer-review

A Basic Problem of Resource Allocation in Target Tracking
Research output: Contribution to journal › Journal article – Annual report year: 1982 › Research › peer-review

Myopic and Presbyopic Approaches to a Multi-Sensor, Multi-Target Resource Allocation Problem
Research output: Contribution to conference › Paper – Annual report year: 1982 › Research › peer-review

A Critical Review of Oil Spill Risk Analysis
Research output: Contribution to conference › Paper – Annual report year: 1981 › Research › peer-review

Memory Detection Models for Phase-Random Ocean Acoustic Fluctuations
Research output: Contribution to conference › Paper – Annual report year: 1981 › Research › peer-review

On a New Model for the Ocean Acoustic Detection Process
Research output: Contribution to journal › Journal article – Annual report year: 1981 › Research › peer-review

The Legal Environment Component of an Oil Spill Cleanup Model
Research output: Contribution to conference › Paper – Annual report year: 1981 › Research › peer-review

A dynamic programming approach for sequencing groups of identical jobs
Research output: Contribution to journal › Journal article – Annual report year: 1980 › Research › peer-review

A dynamic programming solution to the single vehicle many-to-many immediate request dial-a-ride problem
Research output: Contribution to journal › Journal article – Annual report year: 1980 › Research › peer-review

National Response Capability to Oil Spills: A Systems Approach
Research output: Contribution to conference › Paper – Annual report year: 1980 › Research › peer-review

Some New Aspects of Slamming Probability Theory
Research output: Contribution to journal › Journal article – Annual report year: 1978 › Research › peer-review

Projects:

Cyber Resilience for the Shipping Industry (CyberShip)
Project: Research

ShipCLEAN - Energy efficient marine transport through optimization of coupled transportation logistics and energy systems analyses
Project: Research

Smart Maritime: Norwegian Centre for improved energy efficiency and reduced harmful emissions
Project: Research

BlueSIROS – Satellite Integrated Route Optimisation Service
Project: Research

SCANDRIA2ACT: Sustainable and Multimodal Transport Actions in the Scandinavian-Adriatic Corridor
Project: Research
TENTacle- Capitalising on TEN-T core network corridors for prosperity, growth and cohesion
Project: Research

Liner shipping network design based on local optimization
Project: PhD

Cargo-mix optimisation
Project: PhD

Green corridors in freight logistics
Project: PhD

Real Time Process Management for Error Correction and Maintenance in Railways
Project: PhD

Efficient Algorithms for integrated Container Terminal Activities
Project: PhD

The Framework of phase-based planning of railway
Project: PhD

Competitive Liner Shipping Network Design
Project: PhD

Mitigating and reversing the side-effects of environmental legislation on Ro-Ro shipping in Northern Europe
Project: Research

ConCoord
Project: Research

Activities:

Speed Optimization vs Speed Reduction in Maritime Transport: the Speed Limit Debate
Activity: Talks and presentations › Conference presentations

Sustainable shipping: to be or not to be
Activity: Talks and presentations › Talks and presentations in private or public companies and organisations

The profit maximizing liner shipping problem with flexible frequencies: balancing economic and environmental performance
Activity: Talks and presentations › Conference presentations

Liner shipping with flexible frequencies: logistical and environmental considerations
Activity: Talks and presentations › Conference presentations

Sustainable shipping
Activity: Other

The profit maximizing liner shipping problem with flexible frequencies
Activity: Talks and presentations › Conference presentations
ROUTE 2018
Activity: Other

MBMs: the IMO discussion
Activity: Talks and presentations › Conference presentations

Decarbonization of shipping: status and prospects
Activity: Talks and presentations › Conference presentations

Maritime Logistics and Cybersecurity at DTU
Activity: Other

The profit maximizing liner shipping problem with flexible frequencies: logistical and environmental considerations
Activity: Talks and presentations › Conference presentations

Reducing emissions in maritime transportation (ii)
Activity: Talks and presentations › Talks and presentations in private or public companies and organisations

Reducing emissions in maritime transportation
Activity: Talks and presentations › Talks and presentations in private or public companies and organisations

Hong Kong Polytechnic University
Activity: Visiting an external institution › Visiting another research institution

Green Maritime Logistics
Activity: Talks and presentations › Conference presentations

Transportation Science (Journal)
Activity: Editorial work and peer review › Series editor › Communication