



Massimo Figari

Full professor

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Education and training

1989

Master Degree in Naval Architecture and Marine Engineering

110/110 e lode

Università degli Studi di Genova - Genova - IT

Academic experience

2002 - 2020

Associate Professor

Università degli Studi di Genova - Genova - IT

Head of Master Degree and Bachelor Degree in Naval Architecture and Marine Engineering

1994 - 2002

Researcher

Università degli Studi di Genova - Genova - IT

2020 - ONGOING

Professor in Marine Engineering

Università di Genova - Genova - IT

Responsabile Unità Operativa di Ricerca 'Marine Technology'

Language skills

English

Independent

Research interests

Scientific interests:

- dynamic simulation of marine systems
- reliability and safety of marine systems
- environmental impacts of ships and their consequence on the design

Research activity is documented by about 100 technical papers.

M. FIGARI; DAMONTE R; PORCARI R

Ultimate Bending Moment of the Ship Hull Girder
1997
INTERNATIONAL SHIPBUILDING PROGRESS
G. BENVENUTO; FIGARI M.
Environmental Impact Assessment of Short-Sea Shipping
1997
TRANSACTIONS - THE SOCIETY OF NAVAL ARCHITECTS AND MARINE
ENGINEERS
U. Campora; M. Figari
Numerical Simulation of Ship Propulsion Transients and Full Scale
Validation
2003
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS.
PROCEEDINGS PART M, JOURNAL OF ENGINEERING FOR THE MARITIME
ENVIRONMENT
M.Figari; M. Altosole
Dynamic behaviour and stability of marine propulsion systems
2007
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS.
PROCEEDINGS PART M, JOURNAL OF ENGINEERING FOR THE MARITIME
ENVIRONMENT
ALTOSOLE M.; BENVENUTO G.; FIGARI M.; CAMPORA U.
Real-time simulation of a COGAG naval ship propulsion system
2009
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS.
PROCEEDINGS PART M, JOURNAL OF ENGINEERING FOR THE MARITIME
ENVIRONMENT
M. FIGARI; G. VIGNA; S. VIGNOLO
Dynamic simulation of the vertical-longitudinal motion for a variable
displacement, dynamically supported, high speed craft
2011
PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS.
PROCEEDINGS PART M, JOURNAL OF ENGINEERING FOR THE MARITIME
ENVIRONMENT
M. Altosole; M. Figari
EFFECTIVE SIMPLE METHODS FOR NUMERICAL MODELLING OF MARINE
ENGINES IN SHIP PROPULSION CONTROL SYSTEMS DESIGN
2011
JOURNAL OF NAVAL ARCHITECTURE AND MARINE ENGINEERING
M.Altosole; G. Benvenuto; M. Figari; U. Campora
Dimensionless numerical approaches for the performance prediction of
marine waterjet propulsion units
2012
INTERNATIONAL JOURNAL OF ROTATING MACHINERY
Marco Altosole; Massimo Figari; Michele Viviani
VR simulation for the propulsive performance analysis of high-speed yachts
2013
INTERNATIONAL JOURNAL OF ENGINEERING SIMULATION
A. Coraddu; M. Figari; S. Savio

Numerical investigation on ship energy efficiency by Monte Carlo simulation
2014

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS.
PROCEEDINGS PART M, JOURNAL OF ENGINEERING FOR THE MARITIME
ENVIRONMENT

ALTOSOLE, M; VIGNOLO, S; FIGARI, M; VIVIANI, M; MARTELLI, M;
Numerical modelling of propulsion, control and ship motions in 6 degrees
of freedom
2014

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS.
PROCEEDINGS PART M, JOURNAL OF ENGINEERING FOR THE MARITIME
ENVIRONMENT

M. Altosole; U. Campora; M. Martelli; M. Figari
Performance decay analysis of a marine gas turbine propulsion system
2014

JOURNAL OF SHIP RESEARCH

M. Martelli; M. Figari; M. Altosole; S. Vignolo
Controllable pitch propeller actuating mechanism, modelling and
simulation
2014

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS.
PROCEEDINGS PART M, JOURNAL OF ENGINEERING FOR THE MARITIME
ENVIRONMENT

M. Altosole; G. Buglioni; M. Figari
Alternative propulsion technologies for fishing vessels: A case study
2014

INTERNATIONAL REVIEW OF MECHANICAL ENGINEERING

M. Altosole; M. Figari; M. Martelli; M. Rocca
Simulation techniques for the propulsion retrofitting of
the tall ship "Amerigo Vespucci"
2014

POLARIS

A. Coraddu; L. Oneto; A. Ghio; S. Savio; D. Anguita; and M. Figari
Machine learning approaches for improving condition-based maintenance
of naval propulsion plants
2016

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS.
PROCEEDINGS PART M, JOURNAL OF ENGINEERING FOR THE MARITIME
ENVIRONMENT

Donnarumma, S.; Figari, M.; Martelli, M.; Vignolo, S.; Viviani, M.
Design and Validation of Dynamic Positioning for Marine Systems: a Case
Study
2018

IEEE JOURNAL OF OCEANIC ENGINEERING

Raphael, Zaccone; Massimo, Figari
ENERGY EFFICIENT SHIP VOYAGE PLANNING BY 3D DYNAMIC PROGRAMMING
2017

THE JOURNAL OF OCEAN TECHNOLOGY

Martelli, M.; Figari, M.

Real-Time model-based design for CODLAG propulsion control strategies

2017

OCEAN ENGINEERING

Zaccone, R.; Ottaviani, E.; Figari, M.; Altosole, M.

Ship voyage optimization for safe and energy-efficient navigation:

A dynamic programming approach

2018

OCEAN ENGINEERING