

Giorgio Zamboni

Fixed-term assistant professor

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Education and training

1997

PhD in Fluid Machines Engineering

University of Genoa - Genoa - IT

1990

Degree in Mechanical Engineering

110/110 cum laude

University of Genoa - Genoa - IT

Academic experience

2017 - ONGOING

Fixed term assistant professor

University of Genoa - Genoa - IT

2001 - 2017

Technician

University of Genoa - Genoa - IT

1999 - 2000

Post-doctoral fellow

University of Genoa - Genoa - IT

1997 - 1998

Research assistant

University of Genoa - Genoa - IT

1993 - 1996

PhD student

University of Genoa - Genoa - IT

Teaching activity

Lecturer in charge of the unit Energy and Environmental Systems, Degree in Industrial and Management Engineering.

Lecturer in charge of the unit Advanced Propulsion Systems for Low Environmental Impact, Master Degree in Energy Engineering.

Lecturer in charge of the unit Machines and Systems for Transport and

Logistics, Master Degree in Safety Engineering.

Postgraduate research and teaching activity

PhD committees membership

Member of the Teaching Board for the PhD Course in Modeling, Machines and Systems Engineering for Energy, Environment and Transportation.

Research interests

I developed theoretical and experimental investigations related to different items, all concerning ICE and their energy consumption and environmental impact with particular reference to vehicle applications:

- Automotive turbocharged diesel engines control.
- Development and application of engine-turbocharger matching models.
- Analysis of mechanical losses and evaluation of ICE mechanical efficiency.
- Combustion analysis in Diesel ICE.
- Road vehicles exhaust emissions and fuel consumption evaluation under real driving conditions.

Current research projects

- Experimental investigations on Diesel ICE focused on the development of main sub-systems integrated strategies for fuel consumption and exhaust emissions reduction.
- Investigations on bio-fuels application to engines.
- Experimental and theoretical studies on powered two wheelers and heavy-duty vehicles fuel consumption and emissions in real world operating conditions.
- Modelling of road vehicles for energy consumption and emissions evaluation in different driving operations.

Editorial activity

Reviewer for 31 international journals/engineer societies (Energy, Applied Energy, Energies, Atmospheric Environment, SAE International, International Journal of Sustainable Transportation, Journal of Traffic and Transportation Engineering, Sustainability, etc.).