

# Federico Scarpa

Full professor

✉ fscarpa@ditec.unige.it

☎ +39 010 3532312

## *Education and training*

1994

**Ph.D. - Technical Physics (3 years cycle n.6)**

University of Genoa - Genoa - IT

1990

**M.Sc. - Mechanical Engineering (5 years)**

University of Genoa - Genoa - IT

**Sc. High School degree (Liceo Scientifico 5 years)**

Jesuit Institute Bartolomeo Arecco - Genoa - IT

## *Academic experience*

1995 - 2011

**Assistant Professor (Researcher)**

University of Genoa - Genoa - IT

2011 - 2017

**Associate Professor**

University of Genoa - Genoa - IT

2017 - ONGOING

**Full Professor**

University of Genoa - Genoa - IT

## *Teaching activity*

20+ years of teaching in institutional courses:

- *Thermophysical properties of materials (Mech. Eng.) 1998-2005*
- *Technical physics (naval and chemical engineer) since 2003*
- *Models and methods for thermal systems analysis (Mech. Eng.) since 2011*

## *Research interests*

Starting from my hiring, in 1995, I carried out research in the field of the dynamic identification of thermophysical properties and of the quality of the measurement (estimation theory, Kalman filter), and in the field of

theoretical and experimental study of heat and mass transfer in porous media.

Since 2006 I deepened my knowledge of more industrial subjects in the areas of renewable energy, especially solar energy, building physics and traditional and magnetic refrigeration.

The quality of the results allowed me to establish collaborations with national (CNR) and foreign (AIRBUS, EUROCOPTER as part of the European EECS project) agencies.

Since 2014 I am also interested in bibliometrics and research evaluation. The research activity led to the publication of over 100 papers of which more than 50 published in international journals (Scopus) and others presented at national and international conferences.

### ***Editorial activity***

My research activity led to the publication of over 100 papers of which more than 50 are published in Scopus-indexed international journals and others were presented at national and international conferences.

At present (2018), Associate Editor of the journals *Frontiers in Mechanical Engineering* and *Frontiers in Energy Research*. Member of the editorial board of several journals.