

Massimiliano Avalor

Full Professor of Machine Design

EDUCATION AND TRAINING

27/10/1995

PhD in Machine Design

PhD Thesis on Progressive Plastic Collapse of Tubular Metal Structures: Development of Theoretical Models and Experimental Analysis
Politecnico di Torino

25/07/1991

Master Degree in Mechanical Engineering

Degree Thesis on Structural Optimization of a Ground Effect Vehicle Platform
Politecnico di Torino

PROFESSIONAL HISTORY

1/11/2003-11/30/2016

Associate Professor of Machine Design

II Faculty of Engineering, Vercelli campus
Politecnico di Torino

1/4/1997-31/10/2003

Research Assistant of Machine Design

II Faculty of Engineering, Vercelli campus
Politecnico di Torino

ACADEMIC APPOINTMENTS

1/11/2020-

Coordinator of the Master's Degree Course in Mechanical Engineering – Design and Production

Department of Mechanical, Energy, Management and Transport Engineering
Università di Genova

EXPERIENCE

MAIN SEMINARS

22-25/05/2016 1st International Conference on Impact Loading of Structures and Materials

Chair of the organizing committee
Politecnico di Torino

6-9/09/2023 52nd National Conference of the Italian Association for Stress Analysis (AIAS, Scientific Society of the Scientific Disciplinary Sector of Machine Design)

Chair of the organizing committee
Università di Genova

SCIENTIFIC RESPONSIBILITY FOR RESEARCH PROJECTS ACCEPTED FOR FUNDING ON THE BASIS OF COMPETITIVE CALLS INVOLVING PEER REVIEW

2013-2015 DRAPO' (Sistemi ausiliari integrati ad alta efficienza per il recupero dell'energia e la riduzione dei consumi di autoveicoli)

Coordination and scientific responsibility of the Regional research project
Politecnico di Torino

2011-2014 OPTIBODY (Optimized Structural components and add-ons to improve passive safety in new Electric Light Trucks and Vans - ELTVs)

Coordination of the local unit of the research project, VII Framework Programme of the European Union
Politecnico di Torino

2009-2012 REFRIFLEX (Design and Implementation of an Innovative Flexible Process and Organisational Workflow for Production of Commercial Refrigerating Systems)

Coordination and scientific responsibility of the Regional research project
Politecnico di Torino

EDITORSHIP OR PARTICIPATION IN EDITORIAL BOARDS OF JOURNALS, PUBLISHING SERIES, ENCYCLOPAEDIAS AND TREATISES

2023- Member of the editorial board of Materials
MDPI

2015- Member of the editorial board of the Latin American Journal of Solids and Structures
Universidade de São Paulo

PRIZES AND ACCOLADES FOR SCIENTIFIC ACTIVITY, INCLUDING MEMBERSHIP OF ACADEMIES

2001 AIAS Prize "Prof. Giuseppe di Chirico"

For the work "Realizzazione di un dispositivo 'Split Hopkinson Pressure Bar' per prove di trazione" (Design of a 'Split Hopkinson Pressure Bar' device for tensile tests)
Associazione Italiana per l'Analisi delle Sollecitazioni (AIAS)

1996 AIAS Prize "Giovannozzi"

For the work "Experimental Analysis of the Collapse Modes in the Axial Crushing of Circular Tubes"
Associazione Italiana per l'Analisi delle Sollecitazioni (AIAS)

PARTICIPATION IN THE CREATION OF NEW BUSINESS ENTITIES (SPIN-OFFS), DEVELOPMENT, USE AND COMMERCIALISATION OF ACADEMIC PATENTS

2013 MICRO HYDRO INNOVATION

Co-founder and partner of the company
Spin-off of Politecnico di Torino

OTHER EXPERIENCES

2021- Member of the Technical Committee CEN/TC 136/WG 5 Mountaineering Equipment
CEN

2003- Member of the Committee C28 Advanced Ceramics
ASTM