

Curriculum vitae of Paolo Gaudenzi

Present position and affiliation

Director of the Mechanical and Aerospace Department
Director of the Professional Master in Satellites and orbital platforms
Full Professor of Costruzioni e Strutture Aerospaziali
Member of the Academic Senate
Università di Roma La Sapienza, Facoltà di Ingegneria Civile e Industriale
Dipartimento di Ingegneria Meccanica e Aerospaziale, Via Eudossiana 16, 00136 Roma, Italia
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Education

Laurea in Civil Engineering cum laude, Università di Roma La Sapienza (1984).
Dottore di ricerca (PhD) in Aerospace Engineering, Università di Roma La Sapienza (1989).

Career and affiliations

Ricercatore (Assistant Professor) of Costruzioni Aeronautiche at La Sapienza (1990-98),
Visiting Scientist at MIT Massachusetts Institute of Technology (USA) (1991-1992).
Associate Professor of Costruzioni e strutture aerospaziali (1998-2000)
Full Professor of Costruzioni e Strutture Aerospaziali at La Sapienza (since 2000)
President (2012-2016) and Founder of Smart structures solutions srl, a start up company for the development of monitoring of structural systems.
Founding Faculty Fellow of the Skolkovo Institute of Science and Technology, Moscow (2013-2014)
Coordinator of the PhD in Aeronautical and Space Engineering (2010-2016)
Scientific curriculum

Author of more than 120 papers 75 of which published on international refereed journals, Scopus 1725 citations, h index 23, Google Scholar 2375 citations h index 27. Author of the research book Smart structures, J. Wiley 2009.

Research topics: aerospace structures, space systems, concurrent engineering and multidisciplinary methods for engineering design, cost engineering, laminated and composite structures, active materials and smart structures, thermal structures, finite element modelling, multiphysics analysis, design for additive manufacturing.

Lecturer in different graduate and PhD regular courses of the Università di Roma La Sapienza, in some special courses for companies (Thales Alenia Space, Telespazio, CSM-Tecnopolo, AVIO) and in international courses (ASI-NATO). Invited lectures in many top level academic and research institutions (Columbia University NY USA, TU Delft The Netherlands, Zurich Polytechnic Switzerland, Conservatoire des Arts et Metiers Paris France, ENPA Poitiers, France).

Responsible of research projects funded by the Italian Ministry for Research, the National Research Council, The Lazio Region, the Italian Space Agency (ASI), the European Space Agency (ESA), EU FP.

Expert in the evaluation of research projects for the Italian Ministry for Education, University and Research, the Italian Ministry for Industrial development, The European Research Council, the regions Lazio, Toscana, Veneto, Piemonte, Puglia. Chairman of the selection board for ENEA (National research body in the field of energy and power).

Responsible for recruitment of faculty: Member of several Commissioni di concorso for the access to the ricercatore academic position or for the positions of Professore associate or Professore ordinario in the fields of Meccanica del Volo, e Costruzioni e strutture aerospaziali or in the sector Ingegneria aerospaziale e navale. Member of the National Commissione di Abilitazione (2013-2014) in the sector 09/A1 Ingegneria Aerospaziale e navale.

Journals and conferences

Editor of Aerotecnica, misili e spazio, the Journal of aerospace science, technology and system (2009-2014).

Associate editor of the Int. Journal of Intelligent Material Systems and Structures (2000-2010).

Associate editor of the IEEE Trans on Aerospace and Electronic systems (2008-2010)

Member of the International board of the CEAS Space Journal and CEAS Aeronautical Journal.

Member of the international editorial board of the Journal Computers and Structures.
Member of the international editorial board of the Journal Composite Structures.
Member of several international scientific committee of international conferences.
Promoter of International Conferences in Rome and other Italian and International locations.
International networks and associations
Promoter of the European Union/La Sapienza stage program EUROSPACESTAGES. La Sapienza representative for the PEGASUS Consortium among European aerospace universities (2004-2008).
Member of the Italian Association of Aeronautics and Astronautics.
Member of the ICAST conference committee (Adaptive structures and technologies).
Technology transfer, industrial R&D, consultancy and entrepreneurship

Responsible for R&D projects for private companies (Alenia Spazio, AVIO, Thales Alenia Space, Space Engineering, HPS, Centro Sviluppo Materiali, ASTRIUM, Vitrociset, Telespazio, Technip).

Technical Advisor for the Jury or for a part in juridical disputes on engineering issues (aeronautics, mechanics).

President (2012-2016) and Founder of Smart structures solutions srl, a start up company for the development of monitoring of structural systems.

Advisor of ESA for the Vega Project team for the critical reviews of the Vega launcher Programme.

Holder of two patents

1. Elemento strutturale in materiale composito laminato configurato per il monitoraggio del suo stato strutturale. Inventors: P.Gaudenzi, L.Lampani; Patent Number: IT2013RM00584; 12/01/2016.

2. Structural integrity monitoring device and method based on wireless sensor network. Inventors: P.Gaudenzi, L.Lampani, F.Capece, S.Atek; appl. number: WO2016/135688/A1; Data: 26/02/2015.

Italian patent Dispositivo e metodo di monitoraggio in remoto dell'integrità di una struttura con reti di sensori wireless, Numero brevetto RM2025A00090.

Member of JEDI (Joint European Disruptive Innovation initiative).

Paolo Gaudenzi 8 5 2020