

CV of Prof. Roberto Cianci,

DIME, University of Genoa

Born in . Degree in Physics with honors in 1975. Professor of Mathematical Physics at the Faculty of Engineering of Genoa.

From 1/11/2000 Full Professor of Mathematical Physics at the Engineering Faculty of Genova

He is author of more than 90 scientific articles and a monographs and editor of 5 books of Proceedings and organizer and chairman of various international scientific conferences .

Prof. Cianci is now a member of DIME, the Department of Mechanics, Energetics, Managing and Transport-Mathematical Section.

He teaches the following accademic courses:

1. Mathematical Physics II for Civil and Environmental Engineering,
2. Mathematical Methods for Mechanical Engineering

further,

- a) He teaches the PhD course of Partial differential equations and applications to the Graduate School of Science and Technology for Engineering.
- b) He teaches the research course " Continuous Modeling and Simulation" for the "International Mediterranean and Latin-America Council for Computer Simulation " Society.
- c) He teaches the courses: "Formal Techniques for Partial Differential Equations" for the SIGRAV Society.

#### Scientific Activities of Prof. Cianci

The scientific activity of Prof. Cianci is developed on two closely related research areas. A first one related to the study of the theories with infinite degrees of freedom and the study of the related governing systems of partial differential equations. A second area of research more related to engineering topics such as:

1. The diffusion and convection of a fluid in non-homogeneous medium.
2. Modeling and simulation for the security and management of catastrophic and terroristic events. Problems of controlling the spread of toxic gases.
3. Models with finite and infinite degrees of freedom, continuum mechanics.

Prof. R. Cianci

- a) Is the Director of the PhD Program in Engineering Machines and systems for energy, environment and transport.
- b) is member of the Scientific Directional Board of the Liophant Simulation Society.
- c) is Scientific Coordinator of the Research field in continuous Simulation for The Liophant Simulation Society.
- d) is the Sigrav Scientific Coordinator of the Sigrav Mathematical Physics research program from January 1, 2014. He develops his scientific and coordinating activities for a three months period each year.
- g) is member of the Scientific board of the Sigrav School, national and international, from 1999.
- h) He was the President of ASN 01/A\$ for 2018-2020

Prof. Cianci was the local coordinator of the PRIN project "Advanced method in Mathematical Physics for continuum media and field theories".