



UNIVERSITÀ DEGLI STUDI DELL'AQUILA
M&MOCS

International Research Center on
MATHEMATICS AND MECHANICS
OF COMPLEX SYSTEMS



LAUDATIO FOR PROFESSOR FERDINANDO AURICCHIO



Ferdinando Auricchio is currently Full Professor of Solids and Structural Mechanics at the Department of Civil Engineering and Architecture of Pavia University (Italy). He's Research Associate at Institute for Applied Mathematics and Information Technologies of the Italian National Research Council (IMATI-CNR) in Pavia.

He received the Euler Medal by ECCOMAS (European Community of Computational Methods in Applied Sciences) in 2016 and he became Fellow Award by IACM (International Association for Computational Mechanics) since 2012.

From 2013 to 2019 he served as Vice-President of ECCOMAS. In 2018 he was appointed as a member of the Italian National Academy of Science, known also as Accademia dei XL. Since 2021 he is President of ECCOMAS.

He completed his PhD in 1995 at the Civil Engineering Department of California University at Berkeley, USA; from 1994 to 1998 he was Assistant Professor at the Civil Engineering Dept. of Roma "Tor Vergata" University (Italy); from 1998 to 2001 Associate Professor at the Structural Mechanics Dept of Pavia University.

In over 3 decades of activity, materialized in 6 patents and over 300 scientific publications, he and his team have mainly focused their attention on:

- development of numerical schemes (in particular, finite element methods, both for solids and fluids, with a particular attention to innovative materials),
- development of simulation tools to support medical decision (in particular, for cardiovascular applications), and
- more recently everything that is related to additive manufacturing. In fact, he has been the main promotor of a network of 3D-printing labs, exploring new materials, new printing technologies, new uses of 3D printing, ranging from civil engineering 3D printed concrete beams to bio-manufacturing.

Alongside research and research management, to be underlined his commitment to scientific dissemination and dialogue between different fields of applied Sciences; he's currently in the Editorial Board of a dozen International Journal dedicated to Computational Mechanics, Structured Mechanics, Modeling and Numerical Methods applied in Engineering and Bio-Engineering.

Rare combination of researcher, manager and educator skills, he's been representing a point of reference for a new generation of students.

For all exposed reasons the Committee, entrusted by the Scientific Committee of the International Research Center MeMoCS with the responsibility of awarding the International Eugenio Beltrami Prize unanimously proposes Professor Ferdinando Auricchio as recipient of the 2019 edition.