

Einladung zum Vortrag

3D@UniPV: 3D printing as a strategic research area for the University of Pavia

Virtual modeling and additive manufacturing (3D printing) for advanced materials

Prof. Ferdinando Auricchio, Ph.D.

Professor of Mechanics of Solids & Head of Department of Civil Engineering and Architecture, University of Pavia, Italy

Additive manufacturing (also known as 3D printing) is becoming more and more a prominent technology, which however still requires deep investigations in terms of materials, virtual modeling, applications, as well as effective economic impact evaluation.

In particular, 3D printing cuts across many different areas, involving several research subjects and allowing the development of new high-impact applications; classical examples are mathematics (modeling and numerical simulations), engineering (materials, prototyping, building construction), chemical-pharmaceutics (bio-compatibility and drug delivery), medicine (patient specific models and prostheses), socio-economics (sustainability and business models), as well as humanities (cinematography and art history).

Aware of all these aspects, after a long selection process the University of Pavia has chosen the project Virtual modeling and additive manufacturing (3D printing) for advanced materials (3D@UniPV) as one of its five strategic research areas.

After a quick overview of 3D printing in general, the seminar will introduce the 3D@UniPV project and discuss some specific areas of active research, ranging from plastic sintering to 3D printing of biocompatible materials, from production to new civil engineering structural applications.



Freitag, 22.04.2016
IAS – Auditorium (EG) Lichtenbergstraße 2a 85748 Garching
10:00 Uhr

Lehrstuhl für Numerische Mechanik • Prof. Dr.-Ing. W. A. Wall • TU München
Boltzmannstr. 15 • 85747 Garching b. München • Tel 089-289-15300
<http://www.lnm.mw.tum.de/dates-and-events/presentations-at-lnm/>



Lecture series / Vortragsreihe
Institute for Computational Mechanics /
Lehrstuhl für Numerische Mechanik