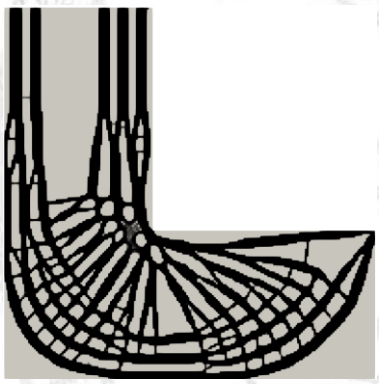
Università degli Studi di Pavia
Computational Mechanics & Advanced Materials Group - DICAr

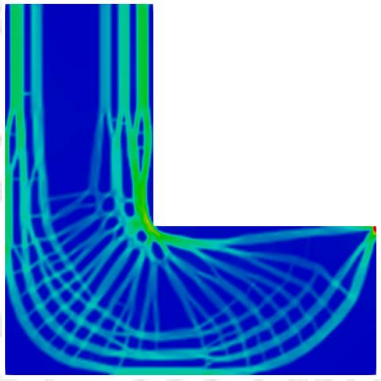
3D@UniPV
Virtual Modeling and Additive Manufacturing for Advanced Materials

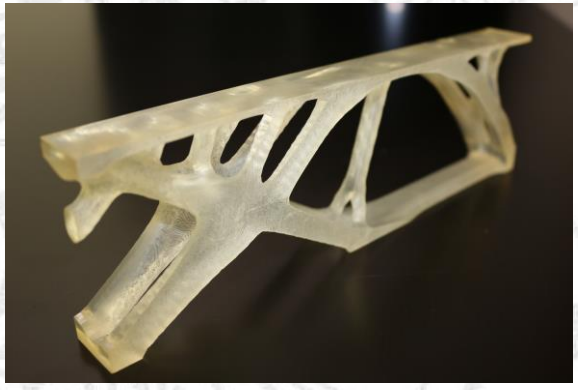
SEMINAR

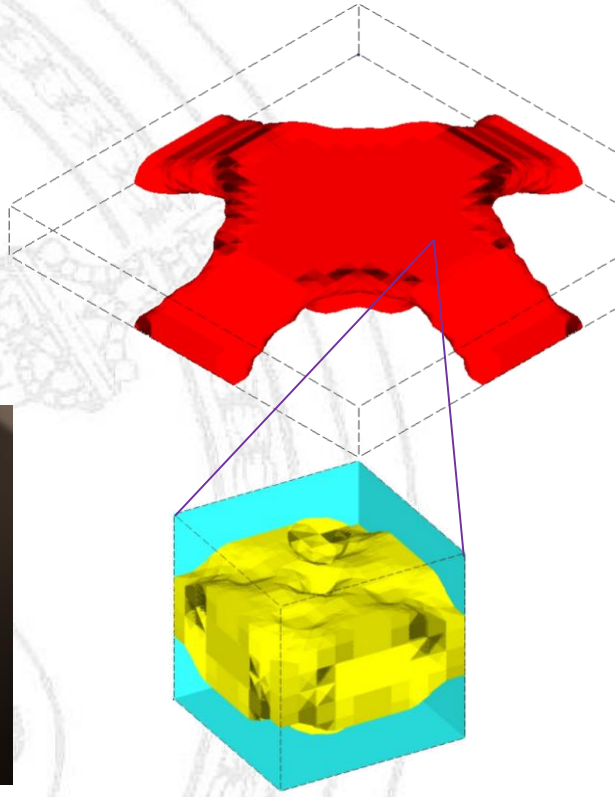
Topology Optimization and Design Method for Additive Manufacturing

Topology optimization is a powerful design tool for various engineering fields and nowadays it is expected to develop a design method for additive manufacturing. The first part of this seminar gives a basic understanding of topology optimization and the second part is for introduction of the recent development of the advanced topology optimization method.Some of these methods are multi-material topology optimization with nonlinear structural response, micro-macro concurrent topology optimization and topology optimization considering uncertain loading condition. Finally, possibilities to apply these methods to additive manufacturing are discussed.









Prof. Junji Kato
Department of Civil Engineering
Nagoya University, Japan

September 17th, 10:30am
DICAr MS1 Meeting Room
Via Ferrata, 3 – Pavia