

## MULTIPHYSICS AND MULTISCALE MATERIAL RESPONSES FOR 3D PRINTING: CHARACTERIZATION, MODELS AND COMPUTATIONAL APPROACHES

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### ABSTRACT

The session aims to update and connect researchers in the field of material description and characterization for additive manufacturing techniques.

The focus is on experimental approaches, theoretical models, and data-driven strategies for novel insights into the multiphysics and multiscale response of materials employed in different 3D printing techniques as well as different material classes.

The session also welcomes contributions in advanced computational approaches exploiting the possibilities offered by in silico methods for the design and verification of 3D printed structures.