

Additive manufacturing for biomedical applications

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The session aims to update and connect researchers and users in the field of additive manufacturing for biomedical applications, highlighting the role of computational approaches for the better design of printing protocols and printed parts. Discussions on available technologies for clinical or tissue engineering applications, as well as on the characterization of biomaterials, will be promoted. The session aims to promote the integration of the overall production process, with a particular insight on the possibilities offered by *in silico* approaches for design and verification. In particular, contributions on the following specific topics of interest are welcomed:

- Patient-specific additive manufactured prostheses and implants: real cases and clinical evidence;
- Strategies for improving the biocompatibility of additive manufactured implants via surface modifications;
- Design and modelling of additive manufactured scaffolds for tissue engineering;
- Multiscale and multiphysical computational approaches for simulations of 3D bioprinting.