



Session description

Chairman name: Dr Kyriakos I. Kourousis

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Title of the session: Plasticity of Additively Manufactured Metals

Objectives: This session will focus on the understanding, modelling and prediction of the elastoplastic behaviour of metals fabricated via additive manufacturing (i.e. SLS, SLM, DLD, FFF, etc). It covers the inelastic mechanical properties arising from both monotonic and complex cyclic loading of metals commonly used in additive manufacturing (i.e. Ti-6Al-4V, Steel 316, Maraging Steel, AISi10Mg, etc), as well as newly developed metallic alloys (i.e. high-strength Aluminium alloys etc). Submissions reporting new methodologies, models, results and findings from experimental and numerical investigations are welcomed. For more details on the session or to discuss a potential submission please contact this session's chair.