

Thematic Session in:

Computational Fracture Mechanics for Polymer Composites

Session Organizers:

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Scope

This session will be focused on recent developments in computational methods to predict the inelastic deformation and fracture of advanced polymer composite materials. Different types of loading, from quasi-static to high strain rates and high-cycle fatigue will be considered. This session will include analysis models developed at several length scales, from micromechanical to macromechanical models, as well as multi-scale models that are able to link the different length scales in a coherent way.