

EUROMAT 2019 / Area C: Processing

SYMPOSIUM: C6

Title: Joining and related technologies		
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Abstract		
<p>This symposium considers all kind of research in the field of similar and dissimilar joining and welding techniques. Advanced and new processes as well as hybrid processes are of interest. Process development, process simulation, the structure analysis and the properties of both the weld/joint and the thermo-mechanically affected zone shall be covered.</p> <p>Considered processes and topics include, are but are not limited to:</p> <ul style="list-style-type: none">• welding techniques and phenomena• post weld heat treatment• mechanical joining• brazing and soldering• ceramic joining• plastic joining• nanomaterials in joining• physical properties controlling joining (wetting, diffusion, dissolution)• microstructure and properties• residual stresses and distortion• modeling of welding and joining• ecological and economical aspects of joining <p>Contributions to this symposium are supposed to be published in the Journal of Materials Engineering and Performance after peer review.</p>		