



Engineering Plasticity and Impact Dynamics

Guest Editor:

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Message from the Guest Editor

Dear Colleagues,

Engineering plasticity is a vibrant branch of research that opens new fields of interest. In recent years it was strongly enriched by fast dynamic loadings. This direction of scientific activity is generated by the needs of applications in different branches of industry (aviation, space engineering etc.). In this Special Issue we plan to collect new ideas in engineering plasticity and impact dynamics, two fields which have recently proved indispensable in a range of applications.

The submitted papers should be focused on the plastic behavior of materials and structures in the wide range of rate of deformations and temperatures. Theoretical, numerical and laboratory studies are welcome. Studies may be enriched by industry applications, where a main focus could be the determination of structural safety, measured by possible fracture and damage. In particular, topics of interest include the fascinating behavior of materials under impact loading when the rate of deformation is more than 100 s^{-1} , as well as the design of new materials (often composites) which are resistant to these loadings and can serve as protective materials and structures.





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Message from the Editor-in-Chief

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