

S17 Computational and experimental advanced mechanics in engineering applications

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The topic of the mini-symposium covers the civil and mechanical engineering issues among others, such as infrastructure safety, durability safety of mechanical systems, or crashworthiness abilities of materials and structures. The papers of various characters are welcome, that is, not only regarding modelling the phenomena or performing the simulations, but related with field or laboratory experiments. All papers should present the numerical solutions supported within the theoretical background or actual experiment. The research paper may be devoted to (but are not limited to):

- High-speed loading scenarios in behavior analysis of materials and structures.
- Novel material and structural solutions for protective aims.
- Coupling loadings in engineering applications.
- Innovative approaches to the process simulation of failure of materials and structures under a complex system of loadings.
- Human factor in safety applications.
- Optimisation issues focused on engineering applications.