

## NUMERICAL METHODS IN SAFETY OF STRUCTURES

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### ABSTRACT

The main objective of structures analysis is the assessment of the structural/material behaviour under impact/blast loadings. The studies require consideration of many structural/material features. The Mini-Symposium is organized to gather researchers working on applications of computational mechanics/numerical studies in analyses, assessment of structures subjected to different kinds of impact/blast loadings and strengthening of structures under extreme loading. The contributions will be focused on the following topics:

1. Computational description of materials subjected to high loading rates.
2. Mesh and meshless methods in analyses of structures submitted to impact and blast.
3. Numerical simulations in structural collapse analysis.
4. Crash/impact analysis.
5. Computational methods in structural health assessment.
6. Protection systems/crashworthiness of composites and security designs.
7. Optimisation studies.
8. Robustness of structures.

The Mini-Symposium is intended to present challenges and achievements in applications of computational and experimental mechanics in safety of structures.