

Shell and spatial structures

Organizers:

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Shell and spatial structures are representative of some of the most efficient structural system in which the optimized use of materials is combined with effective structural form. The continuing development of analysis methods, design approaches and construction techniques of shell and spatial structures has resulted in an increasing interest to engineers, architects, and builders.

The minisymposium welcomes contributions pertaining to the design, modelling, analysis, construction, and other aspects of the technology of all types of shell and spatial structures. These may include, but are not limited to, tension and membrane structures, framed and lattice structures, gridshells and active-bending structures, shell roofs, tensegrity structures, pneumatic and inflatable structures, active and deployable structures, concrete, metal, timber and bio-based, spatial structures. Minisymposium topics will include analysis methods and approaches regarding their conceptual design, computational form finding, structural optimization, manufacturing, testing and maintenance techniques.