*applied mechanics*

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# Mechanics Applied in Construction Engineering

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Deadline for manuscript submissions:
**closed (31 December 2021)**

## Message from the Guest Editors

Dear Colleagues,

In contemporary construction engineering, structural performance demands are continually increasing. These include (but are not restricted to) resistance to fire, capability to absorb earthquake vibration, and damping towards winds in tall and slender structures...This Special Issue is thus devoted to all branches of mechanics that tackle challenges in the following fields:

1. Modeling and realizing measurement chains and instruments for structural monitoring, aiming at the identification of key structural properties, in order to detect damage or property deterioration;
2. Modeling various kinds of damage and structural deterioration in order to supply suitable data for the previous point;
3. 
4. Designing simulation, laboratory, or in situ apparatuses in order to verify theoretical models and numerical outputs;
5. Modeling, designing, and testing low-cost, low-impact materials and structural components (e.g., clay panels, pultrused beams).