

CALL FOR PAPERS

Nowadays scientists and engineers are fully aware of fatigue damage phenomenon. The inclusion of fatigue design procedures in design codes of current practice is also another significant indication of this collective awareness about the fatigue phenomenon and its consequences on safety of structures and mechanical components. Despite significant advances and maturity in the understanding of some fundamental aspects of fatigue phenomenon, various specialized scientific journals focused on this topic have revealed that fatigue phenomenon is not yet fully understood in all the multitude of variables (e.g., materials, loading, and modelling) and progress for its better understanding is still possible and desired.

Original research articles as well as review articles on the topic of fatigue are welcome in a special issue aiming at highlighting state-of-the-art research and research trends in the field of the mechanical behavior of the structures.

Potential topics include but are not limited to the following:

- ▶ Fatigue and fracture behavior of structural materials and structures
- ▶ Fracture mechanics
- ▶ Damage mechanics
- ▶ Behavior of fatigue cracks under variable amplitude loading
- ▶ Small cracks behavior
- ▶ Probabilistic fatigue modelling
- ▶ Multiaxial fatigue and complex loading effects
- ▶ Analytical and numerical fatigue simulation models
- ▶ Fatigue-corrosion interactions
- ▶ Size-effects in the fatigue analysis
- ▶ Structural integrity and fatigue design methods
- ▶ Elastoplastic fatigue

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/je/civil.engineering/fes/>.

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