

Special Issue on
**Advances in Computational Intelligence Methods for
Dynamic Energy Absorption**

CALL FOR PAPERS

Energy-absorbed structures are widely applied into various domains including civil, automotive, and aerospace engineering. With the increasingly emerging of advanced energy-absorbed materials and structures, the computational and design methods with high efficiency are being developed. This special issue focuses on the theory and application of advanced computational methods for dynamic energy absorption, as well as addressing recent/future challenges in relevant fields.

We invite investigators to contribute original, high-quality research articles and review articles dealing with advanced computational methods such as multiobjective, multidisciplinary, topology, reliability, and surrogate models. The contributions are also encouraged to address the special opportunities and challenges presented by those advanced methods and even their engineering applications.

Potential topics include but are not limited to the following:

- ▶ Multiobjective design method for dynamic energy absorption
- ▶ Multiobjective reliability optimization method
- ▶ Multidisciplinary design method for dynamic energy absorption
- ▶ Topology design for dynamic nonlinear deformation
- ▶ Reliability based optimization under uncertainty
- ▶ Uncertainty optimization based on interval
- ▶ Concurrent computing for dynamic energy absorption
- ▶ Advanced surrogate model and its constructing
- ▶ Hybrid and adaptive metamodeling method
- ▶ Heuristics optimization based on surrogate model
- ▶ Multiscale computation method of porous and composite materials
- ▶ Computational method of new structures (e.g., auxetic and chiral)

Authors can submit their manuscripts through the Manuscript Tracking System at <http://mts.hindawi.com/submit/journals/acisc/acm/>.

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