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Computational Mechanics

The purpose of this journal is to report original research of scholarly value and of reasonable permanence in those areas of computational mechanics which involve and enrich the rational application of mechanics, mathematics, and numerical methods in the practice of modern engineering. The scope of the research reported in this journal will include theoretical and computational methods, and their rational application, in:

(a) solid and structural mechanics, constitutive modeling, inelastic and finite deformation response, structural control;
(b) fluid mechanics and fluids engineering, compressible and incompressible flows, and aerodynamics;
(c) fracture mechanics and structural integrity;
(d) transport phenomena and heat transfer; and
(e) modern variational methods in mechanics, in general.

Papers which emphasize the enhancement of the understanding of the underlying mechanics, physics, and engineering science in these areas through computational methods, in addition to those which deal with novel computational methods themselves, will in their own right be particularly encouraged.

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