COMPUTERS & STRUCTURES
Solids • Structures • Fluids • Multiphysics

TABLE OF CONTENTS

- Description p.1
- Audience p.2
- Impact Factor p.2
- Abstracting and Indexing p.2
- Editorial Board p.2
- Guide for Authors p.5

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DESCRIPTION

Computers & Structures publishes advances in the development and use of computational methods for the solution of problems in engineering and the sciences. The range of appropriate contributions is wide, and includes papers on establishing appropriate mathematical models and their numerical solution in all areas of mechanics. The journal also includes articles that present a substantial review of a field in the topics of the journal.

With the modern use of computers and numerical methods to model and solve problems, the traditional boundaries between the fields of solid/structural mechanics and fluid mechanics hardly exist any longer, and multiphysics problems are solved that involve all aspects of mechanics. The word 'structures' must therefore now be interpreted in a broad sense including solids, fluids and multiphysics.

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In these areas, papers are sought on the automatic solution of mathematical models of 'structures' in the broadest sense, possibly including phenomena of multiphysics, multiscale, and uncertainties. Also, papers presenting algorithms for optimization and the simulation of complete life cycles of systems are sought.

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