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DESCRIPTION

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Computer Physics Communications publishes research papers and application software in the broad field of computational physics; current areas of particular interest are reflected by the research interests and expertise of the CPC Editorial Board.

The focus of CPC is on contemporary computational methods and techniques and their implementation, the effectiveness of which will normally be evidenced by the author(s) within the context of a substantive problem in physics. Within this setting CPC publishes two types of paper. Computer Programs in Physics (CPiP) These papers describe significant computer programs to be archived in the CPC Program Library which is held in the Mendeley Data repository. The submitted software must be covered by an approved open source licence. Papers and associated computer programs that address a problem of contemporary interest in physics that cannot be solved by current software are particularly encouraged. Computational Physics Papers (CP) These are research papers in, but are not limited to, the following themes across computational physics and related disciplines. mathematical and numerical methods and algorithms; computational models including those associated with the design, control and analysis of experiments; and algebraic computation. Each will normally include software implementation and performance details. The software implementation should, ideally, be available via GitHub, Zenodo or an institutional repository. In addition, research papers on the impact of advanced computer architecture and special purpose computers on computing in the physical sciences and software topics related to, and of importance in, the physical sciences may be considered.

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GUIDE FOR AUTHORS

INTRODUCTION
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Computer Physics Communications (CPC) publishes research papers and application software in the broad field of computational physics; current areas of particular interest are reflected by the research interests and expertise of the CPC Editorial Board.

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The focus of CPC is on contemporary computational methods and techniques and their implementation, the effectiveness of which will normally be evidenced by the author(s) within the context of a substantive problem in physics. The introduction to each paper should be directed to a general audience and the author(s) must clearly articulate the novelty and significance of the paper and how it will advance the solution of an important physics application.

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Computational Physics Papers (CP). These are research papers in any area of computational physics within the journal's aims and scope.

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