



# COMPUTER PHYSICS COMMUNICATIONS

An International Journal and Program Library for Computational Physics and Physical Chemistry

## AUTHOR INFORMATION PACK

### TABLE OF CONTENTS

●	<b>Description</b>	<b>p.1</b>
●	<b>Audience</b>	<b>p.2</b>
●	<b>Impact Factor</b>	<b>p.2</b>
●	<b>Abstracting and Indexing</b>	<b>p.2</b>
●	<b>Editorial Board</b>	<b>p.2</b>
●	<b>Guide for Authors</b>	<b>p.4</b>



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### DESCRIPTION

*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 is on contemporary computational methods and techniques and their implementation, the effectiveness of which will normally be demonstrated by the author(s) in the context of a substantive problem in physics.

Papers describing new software in physics, updates to software previously published by CPC, and established software of importance to the community are encouraged. The submitted software must adhere to one of the [Original Software Publications](#) (OSP) pre-approved licenses and will be freely available for download from the [CPC Program Library](#) stored on the Mendeley Data repository. [The existing archive of over 3,000 computer programs dating from 1969 will remain at <http://cpc.cs.qub.ac.uk> until it is migrated to Mendeley Data.]

Articles cover, but are not limited to, the following themes across computational physics and cognate disciplines: computational models and programs; computational models and programs associated with the design, control and analysis of experiments; mathematical and numerical methods and algorithms; algebraic computation; 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

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## AUDIENCE

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Experimental and theoretical physicists and chemists in all fields of physics working with computational techniques.

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## ABSTRACTING AND INDEXING

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# GUIDE FOR AUTHORS

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## 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 demonstrated by the author(s) in the context of a substantive problem in physics. Articles cover, but are not limited to, the following themes across computational physics and cognate disciplines: computational models and programs; computational models and programs associated with the design, control and analysis of experiments; mathematical and numerical methods and algorithms; algebraic computation; 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.

### Types of contribution

Computer Physics Communications publishes the following types of papers. [Special and thematic issues are published on an occasional basis and enquiries should be directed to a member of the [CPC Editorial Board](#).]

*Computational Physics Papers (CP)*. These are research papers in any area of computational physics.

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[1] J. van der Geer, J.A.J. Hanraads, R.A. Lupton, J. Sci. Commun. 163 (2010) 51–59.

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[2] W. Strunk Jr., E.B. White, *The Elements of Style*, fourth ed., Longman, New York, 2000.

Reference to a chapter in an edited book:

[3] G.R. Mettam, L.B. Adams, in: B.S. Jones, R.Z. Smith (Eds.), *Introduction to the Electronic Age, E-Publishing, Inc.* New York, 2009, pp. 281–304.

Reference to a website:

[4] Cancer Research UK, *Cancer statistics reports for the UK*. <http://www.cancerresearchuk.org/aboutcancer/statistics/cancerstatsreport/>, 2003 (accessed 13 March 2003).

Reference to a dataset:

[dataset] [5] M. Oguro, S. Imahiro, S. Saito, T. Nakashizuka, Mortality data for Japanese oak wilt disease and surrounding forest compositions, *Mendeley Data*, v1, 2015. <https://doi.org/10.17632/xwj98nb39r.1>.

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