

1      **Title (Name of your software: The a SHORT title)**  
 2  
 3      **Names of authors / main developers (incl. affiliations, addresses, email)**  
 4  
 5      **Abstract**  
 6      (ca. 100 words)  
 7  
 8      **Keywords**  
 9      (maximum of six)  
 10  
 11  
 12     **Metadata**  
 13    *This ancillary data table is required for the sub-version of the codebase. Please replace the*  
 14    *italicized text in the right column with the correct information about your current code and leave*  
 15    *the left column untouched.*  
 16

Nr	Code metadata description	Metadata
C1	Current code version	<i>For example: v42</i>
C2	Permanent link to code/repository used for this code version	<i>For example: <a href="https://github.com/mozart/mozart2">https://github.com/mozart/mozart2</a>. Please note that a GitHub repository is mandatory.</i>
C3	Permanent link to reproducible capsule	<i>For example: <a href="https://codeocean.com/capsule/0270963/tree/v1">https://codeocean.com/capsule/0270963/tree/v1</a></i>
C4	Legal code license	<i>All software and code must be released under one of the pre-approved licenses listed in the <a href="#">Guide for Authors</a>, such as Apache License, GNU General Public License (GPL) or MIT License. Write the name of the license you've chosen here.</i>
C5	Code versioning system used	<i>For example: svn, git, mercurial, etc. (put 'none' if none used)</i>
C6	Software code languages, tools and services used	<i>For example: C++, python, r, MPI, OpenCL, etc.</i>
C7	Compilation requirements, operating environments and dependencies	
C8	If available, link to developer documentation/manual	<i>For example: <a href="http://mozart.github.io/documentation/">http://mozart.github.io/documentation/</a></i>
C9	Support email for questions	

- 17     **1. Motivation and significance**
- 18
- 19     *In this section, we want you to introduce the scientific background and the motivation for*
- 20     *developing the software.*
- 21
- 22
  - *Explain why the software is important and describe the exact (scientific) problem(s) it*
  - *solves.*
  - *Indicate in what way the software has contributed (or will contribute in the future) to the*
  - *process of scientific discovery; if available, please cite a research paper using the*
  - *software.*
  - *Provide a description of the experimental setting. (How does the user use the software?)*
  - *Introduce related work in literature (cite or list algorithms used, other software etc.).*
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- 31     **2. Software description**
- 32
- 33     *Describe the software. Provide enough detail to help the reader understand its impact.*
- 34
- 35         **2.1. Software architecture:**
- 36         *Give a short overview of the overall software architecture; provide a pictorial overview*
- 37         *where possible; for example, an image showing the components. If necessary, provide*
- 38         *implementation details.*
- 39
- 40         **2.2. Software functionalities:**
- 41         *Present the major functionalities of the software.*
- 42
- 43         **2.3. Sample code snippets analysis (optional).**
- 44
- 45
- 46     **3. Illustrative examples**
- 47
- 48     *Provide at least one illustrative example to demonstrate the major functions of your*
- 49     *software/code.*
- 50
- 51         *You may include one explanatory video or screencast that will appear next to your article, in*
- 52         *the right hand side panel. Please upload any video as a single supplementary file with your*
- 53         *article. Only one MP4 formatted, with 150MB maximum size, video is possible per article.*
- 54         *Recommended video dimensions are 640 x 480 at a maximum of 30 frames / second. Prior*
- 55         *to submission please test and validate your .mp4 file at \url{http://elsevier-*
- 56         *apps.sciverse.com/GadgetVideoPodcastPlayerWeb/verification} . This tool will display your*
- 57         *video exactly in the same way as it will appear on ScienceDirect.*
- 58
- 59     **4. Impact**
- 60
- 61     *This is the main section of the article and reviewers will weight it appropriately.*
- 62     *Please indicate:*
- 63

- 64     ● Any new research questions that can be pursued as a result of your software.  
65     ● In what way, and to what extent, your software improves the pursuit of existing research  
66       questions.  
67     ● Any ways in which your software has changed the daily practice of its users.  
68     ● How widespread the use of the software is within and outside the intended user group  
69       (downloads, number of users if your software is a service, citable publications, etc).  
70     ● How the software is being used in commercial settings and/or how it has led to the creation  
71       of spin-off companies.

72  
73 Please note that points 1 and 2 are best demonstrated by references to citable publications.

74  
75 **5. Conclusions**

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77  
78 **Acknowledgements**

79  
80 Optional. You can use this section to acknowledge colleagues who don't qualify as a co-author  
81 but helped you in some way.

82  
83 **References**

84  
85 If the software repository you used supplied a DOI or another Persistent Identifier (PID), please  
86 add a reference for your software here. For more guidance on software citation, please see our  
87 guide for authors or this [article on the essentials of software citation](#) by FORCE 11, of which  
88 Elsevier is a member.