

**Title (Name of your software: The a SHORT title)**

**Names of authors / main developers (incl. affiliations, addresses, email)**

**Abstract**

(ca. 100 words)

**Keywords**

(maximum of six)

**Metadata**

*This ancillary data table is required for the sub-version of the codebase. Please replace the italicized text in the right column with the correct information about your current code and leave the left column untouched.*

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	

## 1. Motivation and significance

*In this section, we want you to introduce the scientific background and the motivation for developing the software.*

- *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.).*

## 2. Software description

*Describe the software. Provide enough detail to help the reader understand its impact.*

### 2.1. Software architecture:

*Give a short overview of the overall software architecture; provide a pictorial overview where possible; for example, an image showing the components. If necessary, provide implementation details.*

### 2.2. Software functionalities:

*Present the major functionalities of the software.*

### 2.3. Sample code snippets analysis (optional).

## 3. Illustrative examples

*Provide at least one illustrative example to demonstrate the major functions of your software/code.*

*You may include one explanatory video or screencast that will appear next to your article, in the right hand side panel. Please upload any video as a single supplementary file with your article. Only one MP4 formatted, with 150MB maximum size, video is possible per article. Recommended video dimensions are 640 x 480 at a maximum of 30 frames / second. Prior to submission please test and validate your .mp4 file at <http://elsevier-apps.scivise.com/GadgetVideoPodcastPlayerWeb/verification> . This tool will display your video exactly in the same way as it will appear on ScienceDirect.*

## 4. Impact

*This is the main section of the article and reviewers will weight it appropriately. Please indicate:*

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

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

## 5. Conclusions

## Acknowledgements

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

## References

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