

## Design Science Journal Paper Content Template

Submission to the journal should normally follow a template covering the material in the following headings. This template is meant to assist authors in providing appropriate structure fitting the particular goals of *Design Science*. The section headings need not have the same exact titles but the overall manuscript should contain the relevant material.

### *Title*

The Title should be informative, specific and be an attractor to the content of the paper.

### *Abstract*

Each paper should contain an abstract of not more than 250 words. The Abstract should tell the reader about the content of the paper and should be standalone text without any references, to allow it to be listed independently of the paper. The Abstract is not the place for the argument, explanation or editorializing.

### *Introduction (Background and Motivation)*

Since the Journal aims to attract authors and readers from the multiple disciplines that carry out design science research, this section should contain sufficient material for a design researcher, who is not an expert in the specific topic of the paper, to gain an understanding of the issues being researched. It should address the relevant background literature through the analysis of the literature's content and provide the motivation for the research by identifying gaps in the available knowledge. Given the heterogeneity of the readers, more references that cover the background should be provided.

### *Aim(s)*

The overarching goal(s) of the research should be succinctly stated here.

For papers reporting the results of computational or empirical experiments, after stating the aims, the hypotheses that are being tested need to be stated (and referred to later in the paper). For theory papers, after stating the aims, the issue being addressed should be presented.

### *Significance*

If the aims are achieved, what will be the original contribution of the work: i.e., what will be known or be possible which was previously not known or possible.

### *Method*

This is the place to describe the why, what, how, who and when of the research in a form such that it can be repeated by another cognate researcher. Describe the nature of the independent/ input data and the measured/output data.

### *Results*

Describe the results in a form that matches the independent/input and measured/output data described in the *Method* section. If you are presenting statistical models please ensure that the correct method has been used. Tables and figures provide basic structure to results that make it easier for a reader to grasp what is presented.

### *Analysis/Discussion*

The measured/output data generally needs to be analyzed by structuring it (often statistically) and possibly turning it into a form where it can be used to test the hypotheses listed in the *Aims* section of the paper. Where appropriate the structured results can be compared with results in

previous publications. What else can be gleaned from the results?

#### *Conclusions*

This is the place to present whether the results provide support for the hypotheses? If so – how? If not – how not? What does this mean for the hypotheses?

Do the results lead to other work?

What other claims can be made based on the results?

#### *Acknowledgements*

You may acknowledge individuals or organizations that provided advice or support (non-financial). Formal financial support and funding should be listed in the following section.

#### *Financial support (Note: This new section is important for Open Access Publication)*

Please provide details of the sources of financial support for all authors, including grant numbers. Multiple grant numbers should be separated by a comma and space, and where research was funded by more than one agency, the different agencies should be separated by a semi-colon, with “and” before the final funder. Grants held by different authors should be identified as belonging to individual authors by the authors initials; for example, “This work was supported by the National Science Foundation (A.B., grant numbers XXXX, YYYY), (C.D., grant number ZZZZ); the Engineering and Physical Sciences Research Council (E.F., grant number FFFF); and the National Institutes of Health (A.B., grant number GGGG)”. Where no specific funding has been provided for research, please provide the following statement: “This research received no specific grant from any funding agency, commercial or not-for-profit sectors.”

#### *References*

All references mentioned in the text need to be listed. Ensure the references are complete so that a reader can find them.

#### *Appendices*

This is the place for additional detailed information about experimental setup, charts, pseudo code, and more detailed results, if needed.