

Int. SIMS Conf. 2015 Paper Title

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Abstract

This template shows the guidelines on how to create a paper to be submitted to the SIMS Conference. Templates are available for both the \LaTeX and Microsoft Word environment. This particular template document should work with pdf \LaTeX which is a \LaTeX variant which directly outputs PDF files instead of postscript files. However, if required it can be adapted to be used with a traditional \LaTeX document processor¹.

Keywords: keyword1, keyword2

1 Introduction

In the following section, short style guidelines are given.

1.1 Title and Authors

Words should be capitalized in the title, e.g., "This is an Example of a Correct Title". The author information should at least include name, affiliation (department, university, country). Addresses and emails are optional but strongly recommended.

1.2 Abstract and Keywords

The abstract should be written as one paragraph. It is not recommended to exceed 150 words.

Appropriate keywords describing the content of the paper should be supplied as a comma separated list.

1.3 Fonts

For all standard body text *Times New Roman* with regular font style, and font size 10.5pt should be used. To emphasize a text or a word, use *italic font style*. For verbatim text embedded in running text, including code fragments, use the style `texttt` with font Courier New with size 9.5pt should be used (1pt smaller than running text)

For separate code examples, use the style font size 9 pt. For formatting Modelica code highlighting you can

use **dtsyntax** included in the package (<https://code.google.com/p/dtsyntax/>).

```
while x<20 loop
  x := x+y*2;
end while;
```

2 Figures

Figures should be numbered and include a description text. All figures should be referenced within the body text using the capitalized word "Figure" followed by the figure number. For example, Figure 1 shows a figure located inside one column and Figure 2 illustrates how a figure can span over two columns.

Table 1 illustrates the use of tables. It uses the booktabs package which provides improved typesetting of tables.

Table 1. Sizes of compiler phases, lines of code.

Compiler Phase	Lines
BackEnd (from flat Modelica to sorted eq.syst.)	29190
Code generation (generated code)	35971
Code generation (template source code)	8957
FrontEnd (up to flat Modelica)	92192
OpenModelica scripting environment	21883
Template language Susan compiler	12119
Utility modules	12983
Total size (excl. generated code)	194218

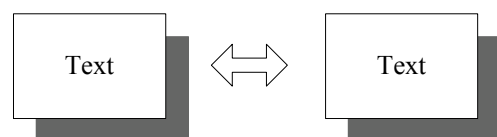


Figure 1. An example of a figure that fits into one column.

¹Essentially by replacing the PDF files figure1.pdf and figure2.pdf by EPS files (Encapsulated PostScript format).

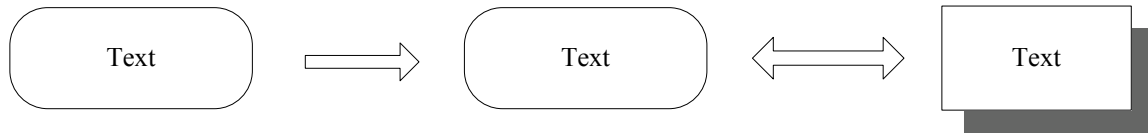


Figure 2. Another example of a figure that spans over two columns.

3 Equations

Equations should be numbered on the right side, such as:

$$a_1 = b_1 + c_1 \quad (1)$$

$$a_2 = b_2 + c_2 - d_2 + e_2 \quad (2)$$

4 Bibliographic References

The bibliographic reference list are shown at the end of the paper; starting with an unnumbered heading "*References*". The list of references should be sorted in alphabetic order according to the first author's surname.

Citations are stated within the body text using the name of the reference enclosed within parentheses, e.g., (Pantelides, 1988). If more than one reference is cited at the same place, the list should be sorted, separated by semi-colons and within parentheses, e.g., (Duff and Reid, 1978; Pierce, 2002; Plotkin, 1981). If possible, it is encouraged to use DOIs instead of URLs in the bibliography.

References

Iain S. Duff and John K. Reid. An implementation of tarjan's algorithm for the block triangularization of a matrix. *ACM Transactions on Mathematical Software*, 4(2):137–147, 1978. doi:10.1145/355780.355785.

Constantinos C. Pantelides. The consistent initialization of differential-algebraic systems. *SIAM Journal on Scientific and Statistical Computing*, 9(2):213–231, 1988. doi:10.1137/0909014.

Benjamin C. Pierce. *Types and Programming Languages*. The MIT Press, 2002. ISBN 0-262-16209-1.

Gordon D. Plotkin. A Structural Approach to Operational Semantics. Technical report, Department of Computer Science, University of Aarhus, 1981.