ION Conference Paper Draft User Guide

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BIOGRAPHY

Fabian Rothmaier is a doctoral student at the Stanford University GPS laboratory. He previously worked for Airbus, the European Space Agency and is trained as an airline pilot.

ABSTRACT

This article gives a short description of how to use the ION conference paper LATEX template. Manuscripts prepared using this template adhere to all ION paper formatting guidelines while offering the high quality results possible with LATEX. This article has been prepared using this template.

DISCLAIMER

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I. INTRODUCTION

This document presents the LATEX draft for paper submissions to conferences of the Institute of Navigation (ION). It is intended to support and facilitate manuscript preparation for authors. While the template described tries to comply with all ION conference submission guidelines, the user is encouraged to visit www.ion.org for the latest guidelines.

This guide assumes basic familiarity with LATEX. The interested reader is referred to Tobias Oetiker's *Not So Short Introduction to LATEX* [1] for an extensive introduction.

II. INSTALLATION

To use the IONconf.cls class file it is sufficient to store it in the same directory as the .tex document. Alternatively its path can be specified while calling the documentclass \documentclass \d./sty/IONconf}.

If the class file is to be installed permanently on the local system, the class file has to be moved to the correct place in the local TeX directory tree. An explanation can be found at https://latex.org/forum/viewtopic.php?f=12&t=14802.

III. CLASS OPTIONS

The ION offers several choices to the author in preparing their manuscript. These choices are reflected in class options available to the author. These are invoked at the beginning of the document in the \documentclass[options]{IONconf} statement.

1. Paper Size

The author has the choice between A4 and US letter size paper. Paper size and margins are adjusted accordingly. The options to be passed are

- a4paper
- letterpaper

The default choice is letterpaper.

2. Font

The author has the choice between *Times New Roman* and *Calibri* font. This choice only affects the section headlines and text body, but not the math font. The options to be passed are

- times
- calibri

The default is times.

The *Calibri* font is a system font that is not installed in LATEX. If the author wishes to use the *Calibri* font, the respective font .ttf files have to be saved in a folder [.tex document folder]/fonts/calibri/ with file names

- Calibri.ttf
- CalibriBold.ttf
- CalibriBoldItalic.ttf
- CalibriItalic.ttf

Selecting the *calibri* option further invokes the \fontspec package which requires the *xelatex* or *lualatex* compiler but does not work with the widely used *pdflatex*. The *calibri* option is therefore only accepted by the class file if the *xelatex* or *lualatex* compilers are used. Otherwise *times* is used.

A different Calibri folder directory can be used by changing the definition of the \CalibriFontFolderPath command in the class file.

IV. THE TITLE AREA

The title and author section of the document is created with the traditional \maketitle command. Prior to this, *title* and *author* have to be specified.

1. Title

The title is specified by the traditional \title{Title Text} command. ION author guidelines suggest **initial capitalization only**.

2. Author

The authors are specified by the traditional \author{names} command. Authors are grouped by institution. Authors of the same institution are separated by commas. The institution is listed in the same line in *italic*. Institution groups are separated vertically by the \vspace{1mm} command.

V. CITATIONS

In this template, Biblatex is used. The style \bibliographystyle{IEEEtran} is used as it matches the ION formatting guidelines. All references are stored in the form of a separate .bib bibliography file. A good introduction to Biblatex can be found at [2].

ACKNOWLEDGEMENTS

The author would like to thank the ION editing staff for their friendly support during the preparation of this template.

REFERENCES

- [1] T. Oetiker, H. Partl, I. Hyna, and E. Schlegl, "The Not So Short Introduction to LATEX2 ϵ Or LATEX2 ϵ in 139 minutes," p. 139, 2018. [Online]. Available: https://tobi.oetiker.ch/lshort/lshort.pdf
- [2] J. Cassidy, "Getting started with BibLaTeX," 2013. [Online]. Available: https://www.overleaf.com/learn/latex/Articles/Getting_started_with_BibLaTeX