

## Paper Title

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## Abstract

Start the abstract by outlining the broader context and significance of the research area, then clearly state the primary aim and the contribution of the paper. Next, summarise the methodological approach employed to address that aim. Following this, highlight the key findings. Finally, conclude with a concise statement of the study's main contributions and potential implications. Write this into a coherent narrative of approximately 200–250 words.

**Keywords:** keyword 1, keyword 2, keyword 3, keyword 4

## 1 Introduction

The paper should preferably be written in British English and will be peer-reviewed. Final submission must use the Open-Journal system on Linköping Electronic Press in PDF format, with a maximum length of 12 pages (including references).

The paper will be published electronically. Animations and movies can be included. However, all media material has to be embedded in the uploaded PDF-file.

## 2 Document Layout

It is mandatory to use the available templates in LaTeX or Word format. The first page must include the title of the paper, the name(s) of the author(s), the name and address of the institution where the work was carried out, and the permanent address(es) of the author(s), if different from the institution address. E-mail addresses should also be provided. All this information should be centred at the top of the first page.

### 2.1 Headings

Principal headings are numbered 1, 2, 3, etc.; subheadings 1.1, 1.2, etc.; and a third level 1.1.1, 1.1.2. Do not exceed three levels.

### 2.2 Equations

Formulas and equations must be clearly written, each on its own line, and well separated from the surrounding text. Equations should be centred and numbered consecutively throughout the text, with the number enclosed in parentheses and

placed flush right. An example is shown in Eq. (1). If an equation begins a sentence, the word Equation should be written out in full and capitalized.

$$\min F_i(\Psi) = \sum_p \sum_q (f_i(\Psi)) \quad (1)$$

### 2.3 Figures and Tables

Include your figures and tables at appropriate places in the paper. Do not place them all at the end. Figures and tables should be numbered separately and consecutively using Arabic numerals. Figure 1 provides an example. If a figure is referred to in the middle of a sentence, “Figure” should also be capitalized. Ensure that all figures have adequate resolution.



*Figure 1: The Douglas DC-3.*

A table may appear as in Table 1, with the caption placed above the table. References to tables should follow the same pattern as for figures, with “Table” with capital T also in running text.

Table 1: This is a table.

Variable		Value	Unit
Force 1	$F_1$	62.22	N
Force 2	$F_2$	62.84	N

2.4 Units

SI units should preferably be used in the article possibly except for best-practice imperial unit use in aviation such as feet (ft) for altitude or distances in nautical miles (NM). Note that unit should be written upright. I.e. N not *N*.

2.5 Text

The body text should use 10 pt font size and single spacing. The paper title should be written in 14 pt font. All headings must have 12 pt spacing above and 6 pt below. Main section headings should be 12 pt and bold, while subheadings should be 10 pt and bold.

2.6 Abbreviations

Abbreviations should be given completely at the first use with the later-on used abbreviation in round brackets. It is recommended to emphasize the first use like the *Swedish Society of Aeronautics and Astronautics* (FTF) or *mean aerodynamic chord* (MAC) and *direct operating cost* (DOC). At later positions, only the abbreviation in capital letters should be stated (like FTF, MAC and DOC). The abbreviations can be defined with `\newacronym` in the document preamble.

Use acronyms sparingly. Acronyms familiar to you and your colleagues may not be understood by a broader audience and can lead to ambiguity. Abbreviations of single words such as "A/C" for “aircraft” should generally be avoided.

2.7 References

References should be numbered consecutively, in order of first appearance in the text. The reference number is recommended to be put within square brackets like [1, 2, 3] and [4] on the text line. The style of the reference list can be seen at the end of the template.

Nomenclature

It is appropriate to state all variables and parameters in a list to increase the readability of the paper. Nomenclature is not mandatory.

Designation	Denotation	Unit
$F_i$	Force	N
$\Psi$	Angle	rad
$p$	Pressure	Pa
$q$	Flow	m <sup>3</sup> /s

References

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[2] Daniel P. Raymer. *Aircraft Design: A Conceptual Approach*. AIAA education series. American Institute of Aeronautics and Astronautics (AIAA), Washington, D.C., 4th edition, 2006.

[3] Flyg och Rymdtekniska Förening. FTF — the Swedish Society of Aeronautics and Astronautics. <https://ftfsweden.se/>, 2019. [Online; accessed 2019-03-11].

[4] Ingo Staack. Establishment of the swedish aeronautical research center (SARC). *Aircraft Engineering and Aerospace Technology*, 0(0):1–8, January 2019.