

# Bare Template to start writing your own Acta IMEKO paper

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## ABSTRACT

The editorial team of Acta IMEKO strongly encourages authors to use this  $\LaTeX$  template file to produce their manuscript. The abstract should be composed in a way suitable for publication in the abstract section of electronic journals, and should state concisely what it is written in the paper. Important items are the aim of the research, the basic method and the major achievement (also numerically, when applicable).

*The length should not exceed 200 words.*

**Section:** RESEARCH PAPER

**Keywords:** Journal; template; IMEKO;  $\LaTeX$

**Citation:** J. Doe, J. Smith, F. Lamonaca, Bare Template to start writing your own Acta IMEKO paper, Acta IMEKO, vol. VN (VY) no. IN, pp. 1 – 2, DOI: *ND*

**Section Editor:** Not specified., Not specified.

**Received:** May 15, 2025; **In Final Form:** May 15, 2025; **Published:** May 15, 2025.

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**Funding:** [Optional, if applicable] This work was supported by Measurement Science Consultancy, The Netherlands.

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## 1. INTRODUCTION

The template is designed to be used with the  $\LaTeX$  document preparation system. Also, the class is also compatible with  $\text{Lua}\LaTeX$ .

You can build your own document using this template, both locally on your computer or on the Overleaf online platform.

**Please do NOT change the class file. Also, do not add or modify the metadata (citation, section editor and article dates). They will be updated during the production phase.**

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- During the paper submission to the journal's website please make sure that all (co-)authors are given and their order is the same as in the paper. Later changes cannot be made by submitters, only by journal editors.
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## 2. FIRST SECTION

First section's text goes here.

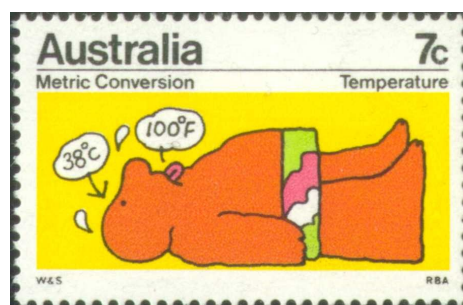


Figure 1. Stamp issued to help people getting familiar with SI units.

## 3. ABOUT SECTIONS

A further section here.

### 3.1. Subsections

If a section is long or deals with different topics, make a subdivision in subsections. Avoid further subdivision of a subsection.

### 3.2. Numbering of subsections

Subsection numbering is automatically managed by the class file.

## 4. FIGURES AND TABLES

You can add figures and tables as usually done in  $\LaTeX$ .



Figure 2. Shakuhachi: old Japanese length standard: 1 shaku = 30.3 cm

#### 4.1. Location

Illustrations and tables can have two formats: column wide or page wide. Figure 1 is an example of the first kind. Figure 2 gives an example for a page wide figure.

All figures and tables should be located on top or bottom in the left or right corner of the page where they are first referred to in the text. If this is not possible, then they must be placed on the following page(s).

### 5. MEASUREMENT UNITS EXPRESSION

Acta IMEKO publishes scientific articles on measurement and instrumentation, hence all the units in the text should be expressed in SI units and formatted according to the SI guidelines.

This  $\LaTeX$  class already loads the `siunitx` package, which provides a set of commands to typeset numbers and units in SI a consistent way.

**Therefore, you don't have to mind very much about spacing and management of units, as the class will do it for you.**

The main command for this is `\qty`, which is used to express a quantity with its unit.

For example, to express an acceleration of 1.23 meters per square second, you can simply type `1.23 m/s^2`. The class will convert the textual units with the appropriate symbols and manage the typography (for instance, avoid italics for units, spacing between numbers and units, etc.).

Compare the result with the classic typesetting with  $\LaTeX$  math mode: `1.23m/s^2` or `1.23 m/s^2` that are both not correct, as they do not respect the SI guidelines.

Other useful commands are `\unit` and `\num`. The first one is used to express a unit alone, while the second one is used to express a number without a unit.

Examples are the units m, s, K and the numbers 1.23 and  $3.14 \cdot 10^{-4}$ .

Clearly, the package support the inclusion of the measurement uncertainty, that can introduced in the number part using the symbol, to obtain this writing  $1.23 \pm 0.40 \text{ m/s}^2$ . Other examples are  $1.23 \pm 0.40^\circ\text{C}$  and  $1.23 \pm 0.40 \text{ N}$ .

For further explanations, please refer to the “Guide” you received with the template.

#### AUTHORS' CONTRIBUTION

Please explain here the contribution of each co-author to the research and to this article. If there is only one author, this section can be deleted.

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#### ACKNOWLEDGMENT

Here persons or institutes may be acknowledged for their technical, scientific or financial support. List them in this section, and not as a footnote or otherwise.

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