

**A Special Guide for Authors**  
**Periodica Polytechnica Electrical Engineering and Computer Science**  
**VINMES Special Issue - Novel trends in electronics technology**

This special guide for authors has been developed for young scientists with the aim of helping them to be successful with their first scientific journal publication. The following instructions should be followed when preparing papers for the VINMES special issue of Periodica Polytechnica Electrical Engineering and Computer Science (PPEECS). It has to be highlighted that the PPEECS has his own and general author guidelines (these can be found on the journal web page: <http://www.pp.bme.hu/eecs/index> ), and these rules are mandatory for the papers published there.

### **1. Structure of the paper:**

The paper has to contain the following mandatory sections:

- Title
- Abstract
- Keywords
- Introduction
- Experimental
- Results
- Discussions
- Conclusions
- References

Below is a short description of the all sections and it gives the aim, the shape, the structure, and the length of the different sections. An Acknowledgement section is allowed at the end of the paper before the references section.

### **2. Title**

The length of the title should contain a maximum of 50 characters with spaces. The title has to indicate

clearly the content of the paper and has to state the main argument of the contribution. However, a common mistake that authors make is that they try to put “everything” into the title, which it is not necessary. Titles do not need to contain all the main points of the paper, so please avoid titles which are too long and complicated. A focused and compact title could guarantee the success of the paper (e.g. finding it in databases, citations, etc.). The title can include abbreviations, but only ones which are well-known in the given scientific field (e.g. SMD, SEM, LTCC, etc...), but please avoid using mathematical signs (e.g.  $\alpha$ ,  $\epsilon$ , etc..)

### 3. Keywords

The paper can include three to six keywords. The carefully selected keywords should be an “extension” of the title; they should not contain expressions similar to those in the title but ones which do not fit in the title. The keywords can include abbreviations but only ones which are well-known in the given scientific field (e.g. SMD, SEM, LTCC, etc...), but please avoid using mathematical signs (e.g.  $\alpha$ ,  $\epsilon$ , etc.) The keywords should be chosen according to the following rule:

- 1-2 keyword(s) about the main topic,
- 1-2 keyword(s) about the methodology,
- 1 keyword about the materials,
- 1-2 keyword(s) about the phenomena studied.

### 4. Abstract

The length of the abstract should be 100 – 150 words. Authors frequently make the mistake of writing only about the “work that has been done” in the field, but a good abstract contains more information. The abstract has to give answers to three main questions addressed in paper:

- the topic studied,
- the work that has been done and the methodology applied,
- the main findings

However, please avoid discussing the hypothesis and future plans in the abstract. It is suggested that you write the abstract in the passive voice. The abstract can include abbreviations but only ones which

are well known in the given scientific field (e.g. SMD, SEM, LTCC, etc...), but please avoid using mathematical signs (e.g.  $\alpha$ ,  $\varepsilon$ , etc.) and references.

## 5. Introduction

The typical length of the Introduction should be 500 – 1000 words. The structure of a good introduction is as follows:

- start with a general description of the area studied which shows the “state of the art”,
- continue by saying what motivated the research where there are gaps in existing knowledge,
- at the end close by giving a summary and highlighting how the research contributes to existing knowledge “What has been done for what purpose”.

However, please avoid discussing in detail the methods and materials applied. The introduction has to be based on a world-wide literature review. Suggested sources for the literature review are Web of Science (WOS), Scopus, Sciencedirect, IEEE explore, Google Scholar, etc. Acceptable references are:

- books and book chapters,
- journal articles,
- conference papers,
- patents,
- MSc and PhD thesis books,
- data sheets, manuals (if necessary)

Please avoid citations in non-world languages and from uncontrolled sources (e.g. Wikipedia). Use as many recent references as possible, usually a larger number of cited papers ensures the quality of the work and the findings. The introduction has to contain at least 50% of the references cited in the paper. Please put references in brackets (e.g. [1]). Lumped references are not enough informative for readers, therefore they are not allowed (e.g. [1-10]). For each of the references there should be a description of at least one sentence. The introduction can include figures, tables and equations. The introduction and the other parts of the paper can include all kinds of abbreviations, but avoid using abbreviations for no reason and introduce all abbreviations (including well-known ones) when used for the first time.

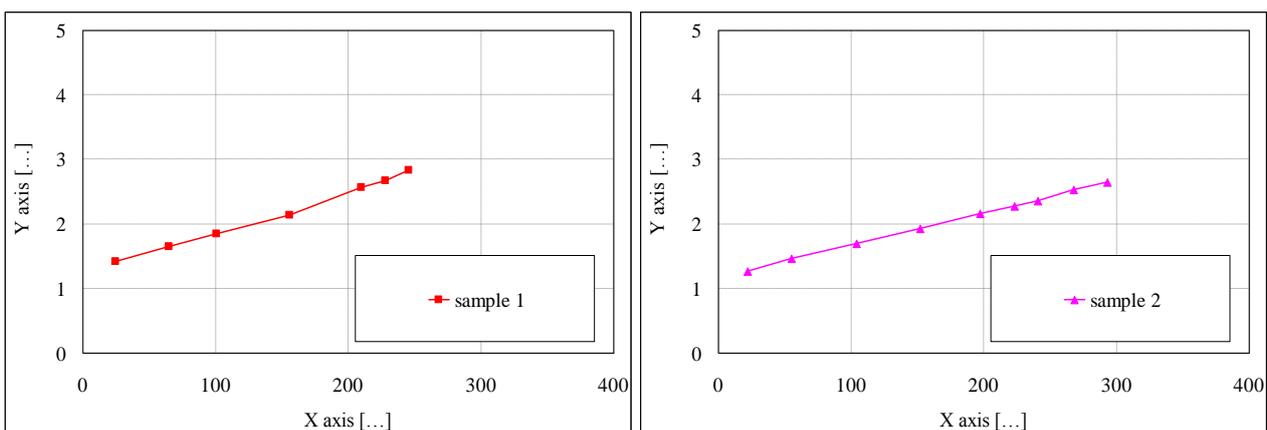
## 6. Experimental

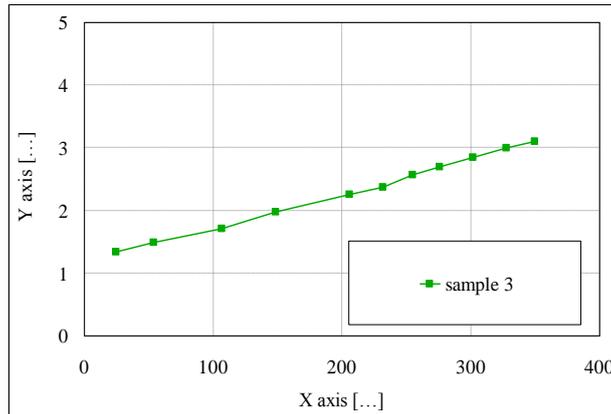
The Experimental section should contain an introduction and a description of the materials and methods studied and applied. The typical parts are the sample preparation steps, the measurement methods with settings, the statistical methods used, the preparation methods and the interpretation of the figures, tables and any graphical objects used. The description of the materials and methods used should be detailed enough for other researches to repeat the research. In the case of non-commercial methods, equipment and measurements, you should give a more detailed description! In the case of measurement setups, remember that block diagrams are usually more informative than confusing pictures. You should avoid using unnecessary pictures about the equipment used. Pictures are preferred in the case of samples and unique probes (if necessary). The Experimental section should be at least 250 words long.

## 7. Results

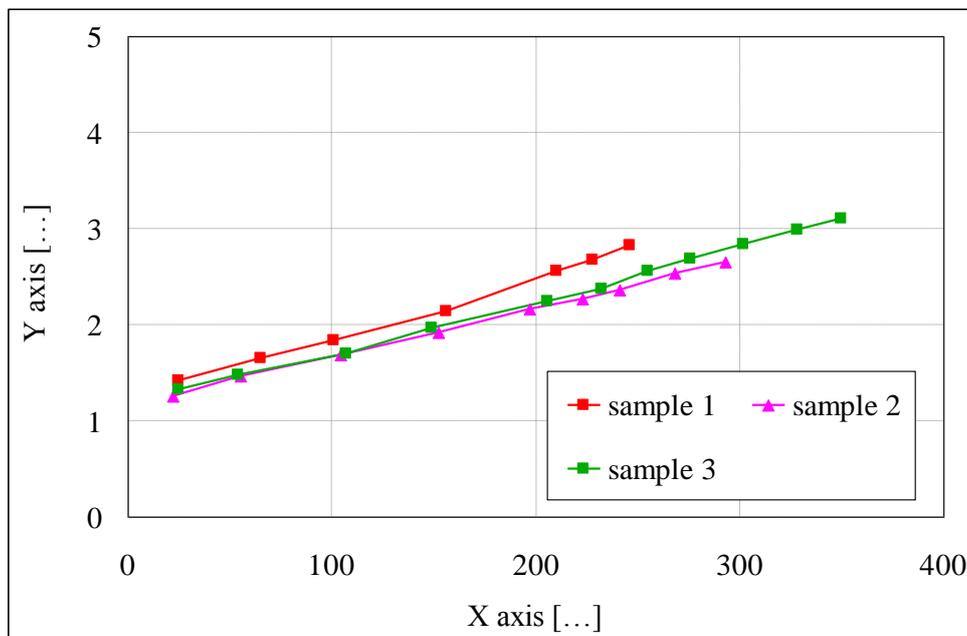
The Results section should present the results of the study in detail along with possible comparisons but without a detailed explanation of the physical and mathematical background of the results (these parts should be in the Discussion section, see below). The results should be presented in a coherent and clear manner, and pay attention to how the results are sequenced. The authors should not present all of the results obtained; the only ones which have to be presented are those which are closely linked to the aim of paper. Do not use too many figures when presenting the results; it is useful if the authors present comparable and cognate results in one figure if possible. However do not use figures which are too crowded either!

An example of incorrect presentation:





An example of the type of presentation recommended:



If there is only a small number of quantitative results, the use of tables is the preferred way of presenting them, rather than a set of bar charts. In the case of statistical results, you should provide information about any deviations (or at least average deviations) and not only the mean of the results. Indicate also the software used for the statistical analysis.

## 8. Discussion

The Discussion section should contain a detailed explanation of the physical and the mathematical background of the results, but do not repeat the results here. Try to find a relationship between your results and highlight it! It is recommended that you should compare the results with previous results

of described in the literature. Try to explain the tendencies of the curves! You must highlight the findings as well as any unclear points which require further investigation. A common mistake is that authors to believe that only “positive” results are “important”. Neutral results (e.g. no relationship between two phenomena or parameters) may also be important for science. If applicable, mention any further possibilities for research in your topic (e.g. other methods, repeats of the study, etc.) The authors should summarize the main points of the findings but avoid using statements which are too strong and which cannot be totally confirmed by the results. Try to highlight the practical aspects of your work! The Discussion section has to be at least 250 words long.

## 9. Conclusions

The Conclusions section should contain the summary of the ***most important*** phenomena, results and findings. The Conclusions section cannot be a repeat of the Abstract and a repeat of the work which has been done! The conclusions should show clearly that the aim of the study (which is defined in the Introduction section) is fulfilled. In the Conclusions section the use of figures, tables, equations and citations is not allowed. A fluent structure is preferred, do not use bullet numbering before the statements. The length of the Conclusions section should be 150 – 250 words.

## 10. Acknowledgements

An acknowledgements section is allowed but only in text form. The funding source should be indicated by giving the project number and financing agency, including information about the country. Do not give any logotype here.

## 11. Further rules of publishing

### Authors:

- ***The first and corresponding author should be a young scientist*** (undergraduate student and PhD students).

### References:

- The paper has to contain a minimum 10 citations.
- A maximum 3 self-citations are allowed.

- Please provide the DOI number of the papers if possible.
- Check the name of the authors carefully!
- The Mendeley™ system can be used for formatting the references.
- For the style of references please check the general “Guide for Authors” of PPEECS!

Figures:

- Colour figures are allowed, but please make sure you use appropriate colours. It is recommended that you check the coloured figure in black and white printing as well.
- In the case of graphs, use appropriate axes ticks, and provide clear axes with names and units of the quantities.
- Descriptions of figures should be at least 10 points wide.
- The suggested number of figures is 4 – 10 pcs.
- Please be careful with the quality of pictures, a resolution of at least 240dpi is suggested.
- Please use proper markings for the sub figures (e.g. a), B)... and please define the title of the sub figures in the caption as well.
- The caption of the figures should be as clear and short as possible.

Length of the paper:

- The optimal length of the paper is 3000 – 4000 words.