Manuscript Title

First Author1and Second Author2\*

1 Princeton University, Princeton NJ 08544, USA

2 Springer Heidelberg, Tiergartenstr. 17, 69121 Heidelberg, Germany  
\*email@email.com

**Abstract.** The abstract should summarize the contents of the paper in short terms, i.e. 150-250 words.

**Keywords:** First Keyword, Second Keyword, Third Keyword.

1. Introduction

Write the introduction section here in 11-point Times New Roman. The introduction part should give the necessary background, the motivation behind the work, the objective and the novelty of the work. Give a literature review appropriately.

For citations of references, we prefer the use of square brackets and consecutive numbers. Citations using labels or the author/year convention are also acceptable. The following bibliography provides a sample reference list with entries for journal articles [1], an LNCS chapter [2], a book [3], proceedings without editors [4], as well as a URL [5].

* 1. A Subsection Sample

Please note that the first paragraph of a section or subsection is not indented. The first paragraphs that follows a table, figure, equation etc. does not have an indent, either.

Subsequent paragraphs, however, are indented.

### Sample Heading (Third Level). Only two levels of headings should be numbered. Lower level headings remain unnumbered; they are formatted as run-in headings.

#### Sample Heading (Forth Level). The contribution should contain no more than four levels of headings. The following Table 1 gives a summary of all heading levels.

**Table 1.** Table captions should be placed above the tables.

|  |  |  |
| --- | --- | --- |
| Heading level | Example | Font size and style |
| Title (centered) | **Heat Transfer** | 14 point, bold |
| 1st-level heading | **1 Introduction** | 12 point, bold |
| 2nd-level heading | **2.1 Printing Area** | 10 point, bold |
| 3rd-level heading | **Run-in Heading in Bold.** Text follows | 10 point, bold |
| 4th-level heading | *Lowest Level Heading.* Text follows | 10 point, italic |

1. Materials and methods / Methodology

This part should contain the necessary matters related to computational, experimental and analytical investigations. All Figures / Tables are to be cited within the texts. Figures, tables and its caption should be justify texted as shown in Fig. 1. Proper validation of the study need to be presented.

Give the equations used for the study and properly number it as shown in eq. (1). Displayed equations are centered and set on a separate line.

*x* + *y* = *z* (1)

Please try to avoid rasterized images for line-art diagrams and schemas. Whenever possible, use vector graphics instead (see Fig. 1).

**Fig. 1.** A figure caption is always placed below the illustration. Short captions are centered, while long ones are justified. The macro button chooses the correct format automatically.

1. Results and discussion

Discussion of the results is to be written here. All Figures are to be cited within the text. Give proper discussion and justification to the figures, rather than just explaining the trend.

1. Conclusion

The key findings of the work are to be placed. The conclusion part should be qualitative and quantitative.

Acknowledgements

Place any acknowledgements here.

Nomenclature

|  |  |  |
| --- | --- | --- |
| *Atube* | Surface are of inner tube | [m2] |
| *Dh* | Hydraulic Diameter | [mm] |
| *e* | Diameter of the wire coil | [mm] |
| *f* | Friction factor | -- |
| *h* | Heat transfer Coefficient | [W/m2K] |
| *P* | Pitch | [mm] |
| *Q* | Heat | [W] |
| *Nu* | Nusselt Number | -- |
| *Re* | Reynolds Number | -- |
| ***Subscript*** | |  |
| *s* | Smooth |  |
| *avg* | average |  |
|  |  |  |

(As indicated above, all the notations are to be italicize)

References

1. Author, F.: Article title. Journal 2(5), 99–110 (2016).
2. Author, F., Author, S.: Title of a proceedings paper. In: Editor, F., Editor, S. (eds.) CONFERENCE 2016, LNCS, vol. 9999, pp. 1–13. Springer, Heidelberg (2016).
3. Author, F., Author, S., Author, T.: Book title. 2nd edn. Publisher, Location (1999).
4. Author, F.: Contribution title. In: 9th International Proceedings on Proceedings, pp. 1–2. Publisher, Location (2010).
5. LNCS Homepage, <http://www.springer.com/lncs>, last accessed 2016/11/21.