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An abstract is required for each extended abstract. Type the abstract after your E-mail address. The left and right margins of the abstract are 35 mm and justified without the heading of ABSTRACT. Try to limit to 100 words, which should contain the objectives and significance of the paper, method of analysis, and conclusion. (10 point).

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**1. INTRODUCTION (10 POINT)**

This document is prepared in the format that should be used in your extended abstract. The official language of AVEC’22 is only English and the **manuscript must be written in English**.

The manuscript should be created as "publication-ready" PDF. Your extended abstract will be included in the book of abstracts exactly as typed. The AVEC’22 organizing committee demands to submit your manuscript in PDF format with fonts embedded.

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Your manuscript should be prepared on **210 × 297 mm (A4)** white paper in two columns in Times or equivalent font. Your extended abstract is limited to **2 pages** in length including figures and tables. On the first page, the distance from the top edge of the paper to the title of your paper should be **30 mm**. On the second and subsequent pages, the distance from the top edge of the paper to the top of the first line should be **20 mm**. The left and right margins should be **20 mm**, and the bottom margin should be at least **25 mm**. The width of each column should be **80 mm**. The distance between the two columns of the text should be **10 mm**.

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**5. TOPICS**

Each paper should include **at least one and at most three symposium topics**, according to the list of topics as used for AVEC’22 (see website). Start with "Topics/Axxx, Bxxx, --". These lines should be in 10 point size.

**6. BODY OR PARAGRAPHS**

The body of your extended abstract should be in **10 point size and single spaced**. Do not double space between paragraphs. Indent the first line of the each new paragraph. Use full justification.

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There are two types of headings. A main heading should be numbered consecutively and typed in all capital letters, bold, and flush to the left margin with one line of space above and below.

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A sub-heading within a section should be also numbered consecutively, and typed in upper and lower case letters, bold. Do not leave a line of space above nor below.

**8. HEADER**

Include the text "AVEC’22" at the left upper corner of each page, and flush to the left margin. (10 point)

**9. CONCLUSION**

Here is the Conclusion paragraph. State your major conclusions of your work here.

**REFERENCES**

Here is the reference section. The heading of this section should be "REFERENCES", all capital letters, flush to the left margin. List and number all references at the end of the paper. When citing references in the text, indicate the author and type the corresponding number in the square brackets as shown at the end of this sentence [1]. Some examples of writing references are as follows:

[1] Wallentowitz, H. “Integration of Chassis and　Traction Control Systems”, Proc. of AVEC’92, 1992, pp. 1–9.

[2] Guo, K. “A study on a Phase Plane Representation for Identifying Vehicle Behavior”, Proc. of the 9th IAVSD Symposium, 1985, pp. 10–15.

[3] Hiramatsu, K. et al., “Driver Model for Lane Change Maneuver-Validity of Programmed Steering Model”, Trans. of JSAE, No. 38, 1988, pp. 16–20.

**APPENDICES**

Additional information can be included in appendices. This is an optional section.

**Footnotes**

Each footnote must be inserted at the bottom of the column in which its reference appears. Designate each such reference in the text with an asterisk (\*), not a number. Use double asterisks if two footnotes occur in the same column.

**Figures and Tables**

All figures (line drawings, graphs) and tables should be referred in numerical order in the text. Figures should be typed as "Fig. 1", with captions appearing beneath the figure. Tables should be typed as "Table 1", with headings appearing above the table. Tables may be typed in the manuscript in single- or double-column format. Return to the double-column format for text following a table extending across bath columns. An example of a table is as follows:

Table 1 Vehicle Parameters

|  |  |  |  |
| --- | --- | --- | --- |
| body mass | *mb* | 1430 | kg |
| body roll moment of inertia | *I*roll | 500 | kgm2 |
| front wheel mass | *mf* | 25 | kg |
| rear wheel mass | *mr* | 35 | kg |

An example of a figure is shown below.



Fig. 1 Vehicle Model

Plan graphs and line drawings so that they may be reduced to a single column or double column and remain legible. All line weight should be nearly uniform to avoid deterioration of thinner lines. Identify curves by labeling or different types of lines. Each illustration must have a number and a caption typed directly beneath it. Lettering in the graphics must be in English and should be legible. Avoid color graphics, as they do not reproduce well in printing. However, the digital proceeding is in color.

**Equations**

Center all equations approximately in the column, using accepted rules for splitting if the equation is too long to fit in one line. Equations should be numbered consecutively with the number enclosed parenthesis, flush right-hand margin. An example of an equation is as follows:

 (1)

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Your extended abstract in PDF format should be sent to AVEC’22 Organizing Committee through the AVEC Website. **PDF format is obligatory.**

Deadline for submission: January 17, 2022.