

SATNAC Paper Template

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Abstract—This is a template that must be used to create a L^AT_EX₂ε SATNAC paper. It is a guideline and provides authors with formatting specifications needed for preparing electronic versions of papers for the proceedings of the SATNAC conference. The abstract should be 250 words or less.

Index Terms—Insert key words

I. INTRODUCTION

This document is a L^AT_EX₂ε template and can be downloaded from the conference website. For questions on paper guidelines, please contact the TPC Chair, Samuel van Loggerenberg via email at samuelyl@openseve.co.za. Information about final paper submission is available on the conference website.

All papers must be in English. If English is not your first language, please have your paper proof-read, before submitting it. Full papers may not be longer than 6 pages, including abstract and biographies. Papers shorter than 4 pages will not be considered as a full paper. Work in Progress papers may be no more than 2 pages including abstract and biographies.

II. PAGE LAYOUT

The template is used to format your paper and style the text. All margins, column widths, line spaces, and text fonts are prescribed. Simply type your text into this template to comply with the conference paper formatting requirements.

A. Page Layout

Your paper must use a page size corresponding to A4 (210mm (8.27”) wide and 297mm (11.69”) long). The margins must be set as follows:

- Top = 1.8cm
- Bottom = 3.0cm
- Left = Right = 1.5cm

Your paper must be in two-column format with a space of 0.42cm between columns.

III. PAGE STYLE

The first line of new paragraphs must be indented by 0.38cm. All paragraphs must be justified, i.e. both left-justified and right-justified, while line-spacing must be 1.

A. Text Font of Entire Document

The entire document should be in Computer Modern Roman. Other font types may be used if needed for special purposes.

Recommended font sizes are shown in Table I. Take note of the limited horizontal rules, which are used for the separation of concepts. Vertical rules are discouraged.

TABLE I
FONT SIZES FOR PAPERS

Font Size	Appearance		
	Regular	Bold	Italic
8	Table header (in Small Caps), figure caption, reference item		Reference item (partial)
9	Author email address, cell in a table, biography body	Abstract, body, biography author	Abstract heading (in bold)
10	Level-1 heading (in Small Caps), paragraph		Level-2 heading, Level-3 heading, author affiliation
11	Author name		
20	Title		

B. Title and Author Details

The title must be in 20 pt Regular font, the author name in 11 pt Regular font, and the author affiliation in 10 pt Italic. The e-mail address must be in 9 pt Computer Modern Typewriter font.

All title and author details must be in single-column format and must be centered. Every word in a title must be capitalized except for words such as "a", "an", "and", "as", etc. Author details must not show any professional title (Managing Director), any academic title (Dr.) or membership of a professional organization. To avoid confusion, the family name must be written as the last part of each author name (e.g. John A. Smith).

Each affiliation must include, at the very least, the name of the company and the name of the country where the author is based (e.g. Telkom SA SOC Ltd., South Africa). Email address is compulsory for the corresponding author.

C. Section Headings

No more than 3 levels of headings should be used. All headings must be in 10pt font. Every word in a heading

must be capitalized except for short minor words as listed in Section III-B.

1) *Level-1 Heading*: A Level-1 heading must be in Small Caps, centered, and numbered using uppercase Roman numerals. See heading "III. Page Style" of this document. "Acknowledgment" and "References" are two Level-1 headings which may not be numbered.

2) *Level-2 Heading*: A Level-2 heading must be in Italic, left-justified, and numbered using an uppercase alphabetic letter, followed by a period. See heading "C. Section Headings" above.

3) *Level-3 Heading*: A Level-3 heading must be indented, in Italic, and numbered with an Arabic numeral, followed by a right parenthesis. The heading must end with a colon. The paragraph body follows the level-3 heading in the same line.

D. Figures and Tables

Figures and tables must be centered within the column. Large figures and tables may span across both columns, but must be positioned either at the top or at the bottom of the page. Any text within diagrams must be clearly legible (size 6, minimum). Please use vector graphics, where possible.

E. Figure Captions

Figure captions must be in 8 pt Regular font and numbered using Arabic numerals. Captions of a single line must be centered, whereas multi-line captions must be justified. Captions with figure numbers must be placed below their associated figures. Captions must be numbered with the word "Figure", followed by an Arabic number, a colon, and the caption title: Figure 1: An example. When referencing a figure, the abbreviation Fig. 1 is used. When referencing multiple Figures, use Figs. 1-4, or Figs. 1,3,4.

F. Table Headings

Tables must be numbered using uppercase Roman numerals. Table headings must be centred and in 8 pt Regular font with Small Caps. Every word in a table heading must be capitalized, except for short minor words as listed in Section III-B. Headings must be placed above their associated tables, as shown in Table I.

G. Mathematical Expressions

Mathematical expressions are centered within a column. For very large equations, the expression may span both columns, but must then be positioned at the top or bottom of a page. All mathematical expressions must be numbered within round brackets, in line with the expression and right-justified. Use (1) as the labelling convention to reference the following example expression:

$$(x + a)^n = \sum_{k=0}^n \binom{n}{k} x^k a^{n-k} \quad (1)$$

H. Page Numbers, Headers, and Footers

Page numbers, headers, and footers may NOT be used. These will be inserted later, when the SATNAC Proceedings booklet is compiled.

I. References

All reference items must be in 8 pt font. Number the reference items consecutively in square brackets (e.g. [1]).

Examples of reference items of different categories shown in the References section include:

- example of a book in [1]
- example of a book in a series in [2]
- example of a journal article in [3]
- example of a conference paper in [4]
- example of a patent in [5]
- example of a website in [6]
- example of a web page in [7]
- example of a manual in [8]
- example of a datasheet in [9]
- example of a masters thesis in [10]
- example of a technical report in [11]
- example of a standard in [12]

When referring to a reference item, use the reference number [2]. Do not use "Ref. [3]" or "Reference [3]", except at the beginning of a sentence, e.g. "Reference [3] shows ...". Members of a reference list are each numbered with separate brackets (e.g. [2], [3], [4]–[6]).

ACKNOWLEDGEMENT

The heading of the Acknowledgment and References sections may not be numbered.

REFERENCES

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Gys Booyen is the SATNAC Secretariat and member of the SATNAC Organising Committee. He runs Telkoms CoE programme. The biography is written in Times New Roman, font size 9, with the author names in bold. Academic titles (Dr., Prof.) and photos of the authors are not included.

Samuel van Loggerenberg received his Ph.D in 2016. He is the TPC Chair of SATNAC and network architecture and planning specialist at Openserve, a division of Telkom SA SOC Ltd. Please contact Samuel for further questions with regards to this template.