Instructions/template for preparing your ComEX manuscript (As of Oct. 1, 2019)

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Abstract: Use this instruction file as a template for preparing your articles with LaTeX or Microsoft Word (MS Word). It is essential to adhere to this template because your manuscripts are printed as submitted with minimal editing/formatting by publisher. Do not modify any formats or styles. Main text is limited to approximately 1,500 words, and abstract is about 100 words. You may include total maximum of three display items (figures, tables, algorithms, and so on) in principle but do not exceed 4 MB after converting to PDF. Visit http://www.comex.ieice.org/ for the latest version of ComEX template.
Keywords: ComEX, template, comex.cls, up to six words
Classification: XYZ (choose one from the list in Sect. 4.5)

References

[1] Editorial Committee of ComEX, "Information for the IEICE communications express (comex) authors, preparing manuscript," Institute of Electronics, Information and Communication Engineers, http://www.comex. ieice.org/data/for_authors.html#preparing, accessed Sep. 23, 2014.
[2] A. B. Author1, C. D. Author2, and E. F. Author3, "Title of journal paper with a comma inside the quotation marks like this," *Journal Title in Italic*, vol. 12, no. 3, pp. 456–789, month year. DOI:XX.XXXX/XXXXX
[3] A. B. Chapter-Writer, "Title of quoted chapter," in *Book Title in Italic without Quotation Marks*, ed. C. D. Editor, pp. 123–456, Publisher Name, City, year. DOI:XX.XXXX/XXXXX
[4] A. B. Book-Author, *Book Title in Italic without Quotation Marks*, Publisher Name, City, year. DOI:XX.XXXX/XXXXX
[5] A. B. Author1, C. D. Author2, and E. F. Author3, "Title of paper in proceeding," Proc. 12th Conf. Name, City, Country, pp. 123–345, PAPER-ID, month year. DOI:XX.XXXX/XXXXX

1 Introduction

This template provides formats and styles for ComEX manuscript. It is essential to adhere to this template because your manuscript will be published "*as is*" with minimal copy-editing by the publisher. Do not modify formats (font, font size, paper size, printing area, line space, etc.). *Keep one copy of this template untouched for your reference and prepare your manuscript on another copy.*

2 Software and article charge

MS Word and LaTeX compatible files are officially acceptable for ComEX submission. These template files are designed for MS Word. LaTeX style files can be found elsewhere [1]. Article charge is JPY 41,905 for a manuscript using MS Word template and JPY 31,429 for a manuscript using LaTeX style file. Supplementary movie file(s) costs extra JPY 3,666 per movie file.

3 Manuscript length

Papers do not usually exceed six (6) pages of an A4-sized PDF file. The first page contains paper title, author list, affiliation(s), 100-word-abstract, key-words, and references. The main body of the text is limited to approximately 1,500 words. Manuscripts are allowed to have up to three (3) display items (Figures and/or Tables) with brief captions in principle as long as the final PDF file size would not exceed 4 MB.

4 Typographical style

Consult with Table **I** on the detail typographical styles.

Table I. ComEX typographical style

Article title	Arial 26pt Bold Green
Author Name	Times New Roman 12pt Bold Black
Author Affiliation	Times New Roman 10pt Italic Black
Author Address	Times New Roman 10pt Italic Black
Author Contact E-mail	Times New Roman 10pt Italic Blue
Section Heading (incl. "Abstract" and "Keywords")	Arial 11pt Bold Black
Abstract Body	Times New Roman 11pt Black
Reference Body	Times New Roman 10pt Black
Section Title	Arial 12pt Bold Black
Text Body	Times New Roman 11pt Black
Figure & Table Label in Caption	Times New Roman 10pt Bold Black
Figure & Table Caption Body	Times New Roman 10pt Black
Acknowledgment Body	Times New Roman 11pt Black

4.1 Title

Title should start flush left. Only the first letter in the title is capitalized (this is true to section titles and figure captions). Avoid including abbreviations

unless definitely needed.

4.2 Author name and affiliation

Author names should start flush left. Spell out both first and last names but initial middle name. Use one blank line between authors from different affiliations.

4.3 Abstract

The abstract should be complete sentence(s) that is limited to approximately 100 words. It should be a concise summary of the paper that clearly conveys problem, methods, and conclusions to readers. It also should include appropriate keywords for the convenience of computer search. Do not include reference numbers.

4.4 Keywords

Maximum six (6) keywords are listed. Carefully choose appropriate keywords for your paper being correctly spotted by the computerized search.

4.5 Classification

Category index in the classification is used by the Editors when directing your manuscript to corresponding Associate Editor. Furthermore, it is displayed in ComEX website and in archives for readers' convenience. Choose the most relevant category from the list below.

- Fundamental theories for communications

- Energy in electronics communications

- Transmission systems and transmission equipment for communications

- Optical fiber for communications

- Fiber-optic transmission for communications

- Network system

- Network

- Internet

- Network management/operation

- Antennas and propagation

- Electromagnetic compatibility (EMC)

- Wireless communication technologies

- Terrestrial wireless communication/broadcasting technologies

- Satellite communications

- Sensing

- Navigation, guidance and control systems

- Space utilization systems for communications

- Multimedia systems for communications

The Editorial Committee may change the subject index that authors select if the Editorial Committee judges that the authors' selection is not the best. Note that the index might be changed without notification.

4.6 Main text and headings

Single column format is applied throughout the manuscript. The first line of the first paragraph of each section start flush left. Section headings are numbered consecutively in Arabic numbers. Subsection headings are numbered in Arabic numbers to the right of the decimal point (like this 4.5).

4.7 Equations

Equations are centered with the equation number (in Arabic) appearing at the right-hand margin, in parenthesis:

$$T_{\mathrm{M}}^{\phi} = 2 \times \frac{Gwt^3}{3l}\phi\left(1 - \frac{192}{\pi^5}\frac{t}{w}\tanh\frac{\pi w}{2t}\right). \tag{1}$$

Long equations can be folded in several lines but avoid leading to misinterpretation. Equations are referenced in the main text as Eq. (1).

4.8 References

References should appear on the first page of the paper, in the order in which they are referred in the main text. See the example in this template for different styles for citing a journal paper, a whole book, a contributed chapter in a book and a proceeding paper. WWW links can be placed as a reference. It is authors' responsibility to provide correct information of references. Use a pair of square bracket to cite reference like [2]. Multiple references can be cited like [2, 3, 4, 5].

Note that refereed materials such as proceedings of international conferences should be cited in submitted material as the footnotes or references. In addition, authors are required to clearly indicate how the submitted material differs from the prior refereed works in Introduction. An example of sentences in Introduction and footnote is shown below:

This letter, which was previously presented at IEICE APCC 2019 [5][1], presents a novel MAC protocol of . . .

4.9 Acknowledgments

Acknowledgments, if any, can be placed at the end of the manuscript.

5 Display items (figures, tables, algorithms, and so on)

You may include total maximum three (3) pieces of display items in principle in a final PDF version of your manuscript but do not exceed 4 MB file size.

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[1]In this letter, the impact of packet loss is newly considered.

5.1 Figures

Figures should be placed in the document. Do not submit figures in separate files. For LaTeX users, use LaTeX environment "figure" (\begin{figure}-\end{figure}) to place frames for figures. Place your figure as close to as the main text where it is referred. Figure position in the published paper may differ from that in your original file, when publisher adjusts the final format. Figures are numbered in Arabic numerals. Figures are referred as Fig. **1** even at the beginning of a sentence. Figure captions are placed under corresponding figures.
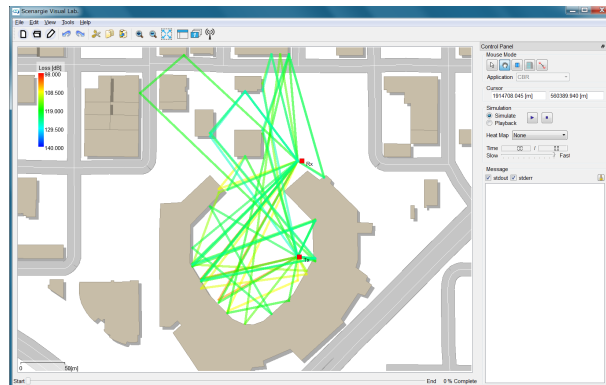

Fig. 1. Include all graphics in the manuscript file. Do not submit figures in separate files.

5.2 Tables

Tables are placed in the document in the same manner as figures. Tables are referred in Roman numbers such as Table **I**, without abbreviating to Tab. **I**. Table captions are placed above the corresponding tables.

5.3 Algorithms

If an algorithm or a pseudo code are shown in the form as Algorithm 1 below, it is regarded as one of three display items allowed to be included in the final manuscript.

Algorithm 1 Calculate $y = x^3$

Require: x
Ensure: $y = x^3$
$\quad y \Leftarrow x \times x$
$\quad y \Leftarrow y \times x$

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6 Supplementary Movies

You can submit supplementary movies which will be placed on J-STAGE with your article. General movie files such as Moving Picture Experts Group

(MPEG) format file or MOV format file are acceptable for movies.

7 ORCID (Open Researcher and Contributor ID)

Authors who would like to include their Open Researcher and Contributor ID (ORCID) in the published manuscript are required to upload a text file named "ORCID.txt" including the list of name and ORCID of each author in the following format:

Name of author 1, ORCID of author 1

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8 Conclusion

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Acknowledgments