

# Radioengineering Journal: Exemplary Document (Template) for a Paper

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**Abstract.** *The purpose of the template is to achieve the uniform layout of all the papers in the Radioengineering Journal minimizing the effort both of the authors and the editors. Authors are strongly recommended to prepare their contributions in accordance with this exemplary document, to use only the predefined styles and not to change any parameters of them. If the format of a submitted paper obviously differs from the Radioengineering Publishing Style the paper may be rejected just for this reason. The following text describes individual components of the paper and tries to stress important details.*

*The abstract of the paper brings brief information about the contents of the paper. The abstract should not be shorter than 80 words and should not exceed 200 words. The text of the abstract is of the style "Abstract". The first word "Abstract." is written in bold letters and followed by a period.*

## Keywords

Paper formatting, journal, electronic publishing, templates, styles, Radioengineering Publishing Style (RPS)

## 1. Headline of a Section

Please, note different headers of odd and even pages (the style "Header"). The content of the headers is satisfactorily being changed on the first and second pages of the paper. The header of even pages can be abbreviated if necessary for not exceeding one line. The red parts of the header, footer and title will be updated by the preprint manager.

### 1.1 Title, Authors

The title of the paper is of the style "Title". Each word of the title starts with a capital letter except for articles (a, an, the), prepositions (e. g. to, for, etc.) and

conjunctions (e.g. and, but, etc.). In the title, words should be preferred to numbers and symbols, which can be used only extraordinarily if necessary.

Below the title, authors' names are of the style "Title-authors". Authors are asked to give full names of all of them in the title (middle names can be shortened here), with punctuation, but without any conjunctions (no "and"). The family name is the most important part of the author's name and is always given unabbreviated. It must be written as the last part of each author's name (valid for the title, header, and authors' CV, but not for References). Authors from Asia are kindly asked to comply with European conventions. In the header of even pages, shortened first and middle names and full family names of the authors are given, again with commas, but without any conjunctions. If there are more than 3 authors, the fourth and next authors' names should be substituted with "et al." in the header and in references. If individual parts of the author's name are very short and abbreviated forms are not usually used (Chinese names especially), full names can be used not only in the title and CV, but also in headers and references. Diacritics and special characters are recommended not to be used if possible.

The affiliation and e-mail address of the author(s) are of the style "Title-address". The affiliation is required being specified as shown in this example. If all the authors are with the same department or laboratory only one affiliation should be given with no superscripts. For email address, the authors should prefer their office's email address to their private one.

### 1.2 Keywords

The abstract of the paper is followed by the headline "Keywords" of the style "Keywords". Below the headline, three to six terms featuring the area of the technical or scientific orientation of the paper have to be given. The paragraph of these terms is of the style "Keywords-text". Capital letters are used only at the beginning and if abbreviation is introduced here. No period stands at the end of keywords.

Variable	Vector	Matrix	Function	Differential	Imaginary unit	Euler number	Descriptive sub(super)script
<i>italics</i>	<b>bold letters</b>	<b>bold letters</b>	upright letters	upright letter	upright letter	upright letter	upright letter
<i>a, B</i>	<b>A</b>	<b>D</b>	$\sin(\omega t)$	$dx$	$i, j$	$e^{j\omega t} = \exp(j\omega t)$	$\lambda_g$

Tab. 1. An example of a wide table: appropriate typefaces according to the sense of symbols.

### 1.3 Headlines of Sections

Headlines of sections should be typed using the style “Heading 1; Section”. Headlines of subsections are of the style “Heading 2; Sub-section”. If those styles are used, numbering of headlines is performed automatically. Subsections of the third or even higher levels are NOT RECOMMENDED. Please, put capital letters at the beginning of all significant words in the headlines. Sections and subsections are referred to as Sec. 1, Sec. 1.2, etc. Non-breaking spaces are recommended to be put between the abbreviation and the number (similarly when referring to figures or tables, e.g. Fig. 1, Tab. 1, etc.).

## 2. Basic Text

Typing the body of the text, the style “Normal; Basic” has to be used. If the basic text is interrupted by an equation or by a figure, then the onward text can be of the style “Continuing” (the paragraph is not indented) as shown e.g. below Fig. 1 or below (2). Word division (hyphenation) is not recommended; it could be done during the final preprint editing if necessary.

### 2.1 Figures and Tables

Figures (the style “Figure”), tables (the style “Table”), and equations (the style “Equation”) are centered and usually put at the top or bottom of pages. Very large objects (figures, tables, or even equations) may cover both text columns as shown in Tab. 1. In such cases, please check formatting and automatic numbering in the following sections of the paper carefully. Instead of using floating objects, a one-column section should be used.

In figures, the authors must consider good readability of all lines and texts. The Radioengineering journal encourages the authors to use vector graphics figures in their submissions. If raster graphics is used, resolution of at least 600 dpi is required. In Word documents, please insert the figures as embedded images (.emf preferred). If possible, avoid putting additional labels, descriptions or highlights as floating text fields in Word and embed the final figure as a whole. In LaTeX projects, .pdf format of graphics is preferred as the final paper is typeset with PdfLaTeX. Optionally, also .eps (will be converted with eps2pdf) or other LaTeX-compatible formats such as .png, .jpg, .tiff, etc. can be used.

Please, keep in mind that figures will be printed in color only if publication fee is paid for color pages; otherwise black and white hard copy and color electronic version are published. For printing in black and white,

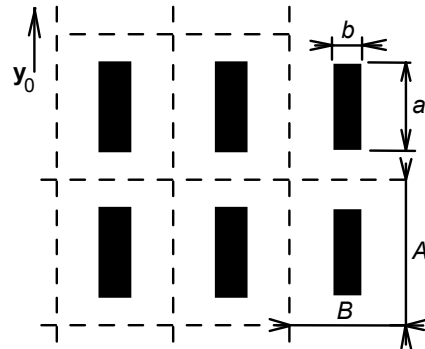


Fig. 1. The description of a figure is of the style “Caption”; the figure itself is of the style “Figure”.

please, avoid using too dark photos and prefer distinguishing curves in figures with symbols and/or types of lines instead of color.

Captions of both figures and tables are of the style “Caption” and are put just below the correspondent entity, not included into the figures. Figures and tables are referred to as follows: Fig. 1, Tab. 2, etc. Full words are used in subjects of sentences, e.g. Figure 1 shows ... Table 1 summarizes ...

For tables, full borders and table headers typed in bold letters are preferred but not strictly required. Anyway, table formatting in the whole paper must be consistent. Lines in tables are 1 pt wide. For the text in the table, the font Times New Roman 8 pt is used (the style “Table” is recommended). Above the table, one blank line of the style “Gap” has to be inserted. Captions of tables are to be put below the table (not above), similarly as captions of figures.

Height [m]	Result1	Result2
10	20	30
40	50	60

Tab. 2. Captions of figures and tables are of the same style.

### 2.2 Equations and Formulas

Equations in the paper should be typed using the style “Equation”: center-aligned tabulator, equation, right-aligned tabulator, and numbering as shown in the following example:

$$\frac{2B \sin^2 \varphi + A \sin 2\varphi}{10 g^2 \kappa T + A \cos^2 \varphi + B \sin \varphi} = 2\gamma\delta . \quad (1)$$

Periods or commas are preferred not to be included in the equation itself, except for the case of very long formulas at several lines. If units are part of the expression, make sure they are written in upright font and that there is a space between the value and the unit, e. g.

$$\lambda_g = \frac{1}{\sqrt{1 - \left(\frac{\lambda}{\lambda_m}\right)^2}} [\text{cm}] \quad (2)$$

where  $\lambda_g$  is the wavelength ... etc. In Word documents, equations should be written in MS Equation Editor 3.0 (reached through Insert – Object command in MS Word, or added by allowing such component (Office Tools – Equation Editor) in the MS Office installation process). The in-built equation editor of MS Word 2007 and later should not be used due to difference in fonts employed. If earlier versions of the Equation Editor are not available program MathType is recommended, using properly set preferences according to these instructions.

It is important to use appropriate typefaces according to the sense of symbols (see Tab. 1): variables in italics *A*, vectors and matrices in bold letters **A**, functions (sin, log, etc.) and abbreviations (often in subscripts or superscripts: e.g.  $\lambda_g$  with upright subscript *g* standing for guided) in upright letters. Upright letters must be used for imaginary unit, *j*, Euler number, *e*, and differentials (e. g. *dx*). To ensure better readability, exponential functions are preferred to be written as  $\exp(j\omega t)$  instead of  $e^{j\omega t}$ .

If a long equation needs to be divided into several lines, mathematical signs are not repeated at the beginning of the next lines. Please, distinguish between signs for multiplication of scalars (no sign or  $\cdot$ , also  $\times$  in special cases as mentioned below), multiplication of vectors ( $\otimes$ ), and convolution (\*).

Equations are referred to only with their numbers in round brackets (1). If standing as a sentence subject, an appropriate word is to be used (equation, formula). E. g. Equation (2) can be rewritten as follows ...

In the text, symbols are preferred NOT to be inserted as Equation Editor's objects but to be typed in the same form as in the equations. Please, do not forget to put spaces (preferably non-breaking spaces) before and after mathematical signs and use the right symbol for subtracting, distinguishing between a minus sign (long dash, –, Ctrl+Num-) and a hyphen (-, Num -).

Correct notation of numbers is 7 900 kgm<sup>-3</sup> or 7.9 × 10<sup>3</sup> kgm<sup>-3</sup>. No central dots and italic characters are allowed either in numbers or units (an example of incorrect typing: 7.9·10<sup>3</sup> kgm<sup>-3</sup>). Greek prefixes in units must not be in italics ( $\mu$  for micro-, e.g.  $\mu\text{m}$ , but in italics  $\mu$  for a variable, permeability). Grouping the digits in three-digit groups makes numbers easier to read (e. g. 7 900).

## 2.3 Submitted Files

In order to eliminate potential errors when moving the document from one computer to another one with a different configuration, the Microsoft-Word DOC version of the paper should be accompanied by the PDF version of the paper. Both versions must be the same. Preparing the

paper, Acrobat Distiller is recommended to be set as a printer. This Exemplary Document may be continuously corrected and modified. The authors are required to use always the up-to-date template available at the website [www.radioeng.cz](http://www.radioeng.cz).

Finally, we would like to ask authors for keeping the following rules (the following paragraphs are of the style "Item" which can be used also with numbering):

- The Radioengineering journal prefers American English: we prefer color to colour, modeling to modelling, behavior to behaviour, etc.
- To prevent problems with final preprint editing, authors are asked to minimize the number of frames and active links in the manuscript.
- Papers are submitted electronically. Extremely large files should be submitted in a zip archive (doc + pdf).

For authors preferring LaTeX, a special template is available at the website [www.radioeng.cz](http://www.radioeng.cz). The submitted zipped file must include all source files, figures, and tables together with the pdf version of the paper.

## 3. Style and Content of References

The authors are strongly asked to pay special attention to the format and content of references in order to keep the uniform appearance of the references in the journal and to ensure right identification of cited items across various databases.

References should be given in the same order as referred to in the paper. Examples of referring to one or more publications are as follows: [1], [2], [3, 4, 6], [1–4]. For range of pages or references, the sign – (long dash, Ctrl+Num-) without any spaces should be used (e.g. p. 1203–1205).

NAMES OF AUTHORS should be typed in capitals, the family name first, followed by a comma, and initial(s) of first name(s), without "and". If there are more than three authors, the fourth and next authors' names are recommended to be substituted with ..., et al.

*Titles of Journals, Books or Proceedings* are typed in italics with the first capital letter of all significant words. The titles of journals are preferred to be given in full. Abbreviations can be used but uniform appearance and common understanding of them must be kept in mind. Please, note the upright font preposition In... before the title of proceedings [3].

The titles of papers are similar to the basic text, i. e. without capital letters at the beginning of all words. If the cited item is not in English, its original language should be indicated in round brackets, e. g. (in Czech), but the title itself should be given in English translation. Note that no quotation marks are used, neither with titles of papers nor with those of journals or books.

Important: If the reference has its own Digital Object Identifier its DOI must be given. Other identifiers (e.g. ISSN for periodical publications, ISBN for books) are recommended to be given especially if no DOI is available. No period is put after the last identifier.

For journal papers, the following data should be given in the following form and order [1]: AUTHOR(S) NAMES. Paper's title. *Journal Title*, 2014 (year, or month + year), vol. 10, no. 1, p. 1201–1210. DOI: obligatory if available

For books [2]: AUTHOR(S) NAMES. *Book Title*. 1st ed. City (Country): Publisher, year. (Chapter can be specified in parentheses.) ISBN xxx.

For conference contributions published in the conference proceedings [3]: AUTHOR(S) NAMES. Title of the contribution. In *Proceedings Title incl. the Conference Complete Specification*. Venue (Country), year or month + year, p. 1201–1210. ISBN: if available. DOI: obligatory if available

For electronically published information (datasheets, programmes, reports, etc.) [4]: AUTHOR(S) NAMES. (or company, or similar) *Title of the Document*. Number of pages. [Online] Cited year-month-day. Available at: URL

## Acknowledgments

The headline “Acknowledgments” is of the same style as the headline “References” – “Reference-headline”. The text of acknowledgments is of the style “Normal; Basic”.

## References

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## About the Authors ...

**Aname ASURNAME** was born in ... . He received his M.Sc. from .... in 1990. His research interests include ... The author's full name is typed in bold letters, the surname is written in capitals. The biography is typed using the style “Authors-text”. To one author, one paragraph of the biography is devoted. No authors' photos are published.

**Bname BSURNAME** (corresponding author) was born in .... She received her M.Sc. from .... Her research interests include ... In this section, the corresponding author can be indicated if necessary, especially if not given as the first author.

**Cname CSURNAME ...** The end of text in both columns at each page should be aligned vertically.

## Appendix A: Example of Appendix

In this appendix, examples of various equations are given. Equations in the appendix can be numbered separately.

- The most usual case is the centered numbered equation:

$$\sin^2(\omega t) + \cos^2(\omega t) = 1. \quad (A1)$$

- Non-numbered equations are usually given for explanation and are not repeatedly referred to in the text:

$$a = b + c.$$

- Sometimes, several equations (systems of equations) can be given with one number (splitted equations):

$$5a = b + 2c,$$

$$d = \frac{a + 4e}{3} + 1, \quad (A2)$$

$$r^2 = (x - m)^2 + (y - n)^2.$$

- Long equations can be placed on more than one line (spread equations). Note that mathematical signs stand only at the end of the line and are not repeated at the beginning of the following line. For very long equations, one-column arrangement can be more suitable.

$$\begin{aligned} a + b + c + d + e - f + g + hij &= k - lm + n - \\ o + pq + rs - t - uv + xy - z. \end{aligned} \quad (A3)$$