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Keywords: Please list your keywords here. They should be separated by middots, if possible. The first letter of each keyword should be capitalized.

1 Introduction

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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) | Lecture Notes | 14 point, bold |
| 1 st -level heading | 1 Introduction | 12 point, bold |
| 2 nd -level heading | 2.1 Printing Area | 10 point, bold |
| 3 rd -level heading | Run-in Heading in Bold. Text follows | 10 point, bold |
| 4 th -level heading | <i>Lowest Level Heading.</i> Text follows | 10 point, italic |

Displayed equations are centered and set on a separate line.

$$x + y = z \quad (1)$$

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

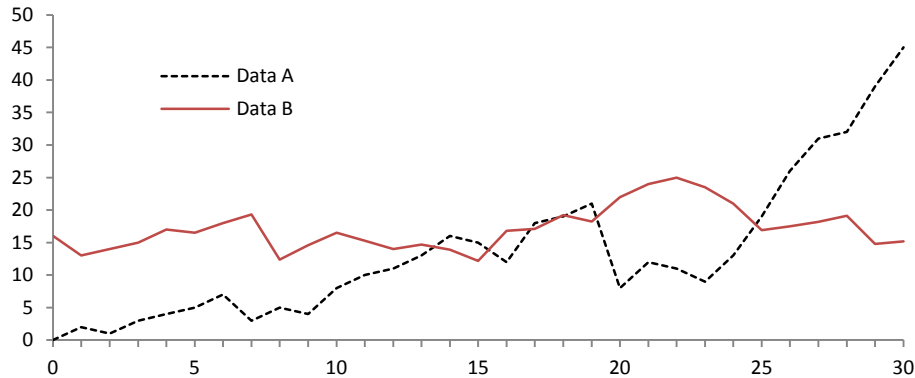


Fig. 1. A figure caption is always placed below the illustration. Short captions are centered, while long ones are justified. The macro button chooses the correct format automatically.

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].

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.

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Affiliations and Email-Addresses. The affiliated institutions, including town/city and country, are to be listed directly below the names of the authors. Multiple affiliations should be marked with superscript Arabic numbers, and they should each start on a new line. Including your postal code is optional. Please place an envelope icon (or any other pointer) next to the name of the corresponding author, whose email address is mandatory, in the header of the paper. Email addresses should start on a new line directly under the corresponding affiliation.

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Headings. Headings should be capitalized (i.e., nouns, verbs, and all other words except articles, prepositions, and conjunctions should be set with an initial capital) and should, with the exception of the title, be aligned to the left. Only the first two levels of section headings should be numbered, as shown in Table 1. The respective font sizes are also given in Table 1. Kindly refrain from using "0" when numbering your section headings.

Table 1. Font sizes of headings. Table captions should always be positioned *above* the tables.

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

Words joined by a hyphen are subject to a special rule. If the first word can stand alone, the second word should be capitalized.

Here are some examples of headings: “Criteria to Disprove Context-Freeness of Collage Languages”, “On Correcting the Intrusion of Tracing Non-deterministic Programs by Software”, “A User-Friendly and Extendable Data Distribution System”, “Multi-flip Networks: Parallelizing GenSAT”, “Self-determinations of Man”.

Lemmas, Propositions, and Theorems. The numbers accorded to lemmas, propositions, and theorems, etc. should appear in consecutive order, starting with Lemma 1. Please do not include section counters in the numbering like “Theorem 1.1”.

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The most common types of papers accepted for publication are full papers (10–20+ pages) and short papers (6+ pages), where a page constitutes 300–400 words. We only wish to publish papers of significant scientific content. Very short papers (of fewer than 4 pages) may be moved to the back matter. Such papers will neither be available for indexing nor visible as individual papers on SpringerLink. They will, however, be listed in the Table of Contents.

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We aim to publish all proceedings papers in full-text xml. Our xml templates for LaTeX are based on CMR, our xml templates for Word are based on Times. We ask you to use the font according to the template used for your papers. Papers using other fonts will be converted by our typesetters.

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2.5 Figures and Tables

It is essential that all illustrations are clear and legible. Vector graphics (rather than rasterized images) should be used for diagrams and schemas whenever possible. Please check that the lines in line drawings are not interrupted and have a constant width. Grids and details within the figures must be clearly legible and may not be written one on top of the other. Line drawings are to have a resolution of at least 800 dpi (preferably 1200 dpi). The lettering in figures should not use font sizes smaller than 6 pt (~ 2 mm character height). Figures are to be numbered and to have a caption which should always be positioned under the figures, in contrast to the caption be-

longing to a table, which should always appear above the table. Figures and Tables should be cross referred in the text.

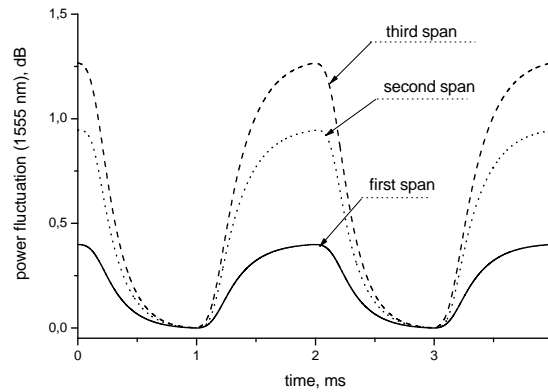


Fig. 1. Power distribution of channel at 1555 nm along the link of 383 km (Source: LNCS 5412, p. 323)

Captions are set in 9-point type. If they are short, they are centered between the margins. Longer captions, covering more than one line, are justified. Captions that do not constitute a full sentence, do not have a period.

Text fragments of fewer than four lines should not appear at the tops or bottoms of pages, preceding or following a table or figure. In such cases, it is better to set the figures right at the top or right at the bottom of the page. Figures should not be surrounded by running text.

If screenshots are necessary, please make sure that the essential content is clear to the reader.

Remark 1. In the printed volumes, illustrations are generally black and white (half-tones). Colored pictures are welcome in the electronic version free of charge. If you send colored figures that are to be printed in black and white, please make sure that they really are also legible in black and white. Some colors show up very poorly when printed in black and white.

2.6 Formulas

Displayed equations or formulas are centered and set on a separate line (with an extra line or half line space above and below). Equations should be numbered for reference. The numbers should be consecutive within the contribution, with numbers enclosed in parentheses and set on the right margin. Please do not include section counters in the numbering.

$$x + y = z \quad (1)$$

Equations should be punctuated in the same way as ordinary text but with a small space before the end punctuation mark.

2.7 Footnotes

The superscript numeral used to refer to a footnote appears in the text either directly after the word to be discussed or – in relation to a phrase or a sentence – following the punctuation mark (comma, semicolon, or period).¹

For remarks pertaining to the title or the authors' names, in the header of a paper, symbols should be used instead of a number (see first page of this document). Please note that no footnotes may be included in the abstract.

2.8 Program Code

Program listings or program commands in the text are normally set in typewriter font:

```
program Inflation (Output)
  {Assuming annual inflation rates of 7%, 8%, and
  10%,...  years};
  const  MaxYears = 10;
  var    Year: 0..MaxYears;
         Factor1, Factor2, Factor3: Real;
begin
  Year := 0;
  Factor1 := 1.0; Factor2 := 1.0; Factor3 := 1.0;
  WriteLn('Year 7% 8% 10%'); WriteLn;
  repeat
    Year := Year + 1;
    Factor1 := Factor1 * 1.07;
    Factor2 := Factor2 * 1.08;
    Factor3 := Factor3 * 1.10;
    WriteLn(Year:5, Factor1:7:3, Factor2:7:3,
            Factor3:7:3)
  until Year = MaxYears
end.
```

[Example of a computer program from Jensen K., Wirth N.: Pascal User Manual and Report. Springer, New York (1991)]

2.9 Citations by Number

Arabic numbers are used for citation, which is sequential either by order of citation or by alphabetical order of the references, depending on which sequence is used in the

¹ The footnote numeral is set flush left and the text follows with the usual word spacing.

list of references. The reference numbers are given in brackets and are not superscript. Please observe the following guidelines:

- Single citation: [9]
- Multiple citation: [4-6, 9]. The numbers should be listed in numerical order.
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Appendix

If a paper includes an Appendix, it should be placed in front of the references. If it has been placed elsewhere, it will be moved by our typesetters. If there is only one, it is designated "Appendix"; if there are more than one, they are designated "Appendix 1," "Appendix 2," etc.

Appendixes should be referred to in the text. The content of an appendix is contained within the sections subordinated to the major heading "Appendix." The language and styling rules for the text also apply to the appendixes. The form of numbering of tables, figures, and equations in an appendix should be the same as in the body of the article, continuing the numbering used there.

References (in MathPhySci)

1. Smith, T.F., Waterman, M.S.: Identification of common molecular subsequences. *J. Mol. Biol.* **147**, 195–197 (1981). doi: 10.1016/0022-2836(81)90087-5
2. May, P., Ehrlich, H.-C., Steinke, T.: ZIB structure prediction pipeline: composing a complex biological workflow through web services. In: Nagel, W.E., Walter, W.V., Lehner, W. (eds.) Euro-Par 2006. LNCS, vol. 4128, pp. 1148–1158. Springer, Heidelberg (2006). doi:10.1007/11823285_121

3. Foster, I., Kesselman, C.: *The Grid: Blueprint for a New Computing Infrastructure*. Morgan Kaufmann, San Francisco (1999)
4. Czajkowski, K., Fitzgerald, S., Foster, I., Kesselman, C.: Grid information services for distributed resource sharing. In: 10th IEEE International Symposium on High Performance Distributed Computing, pp. 181–184. IEEE Press, New York (2001). doi: 10.1109/HPDC.2001.945188
5. Foster, I., Kesselman, C., Nick, J., Tuecke, S.: *The physiology of the grid: an open grid services architecture for distributed systems integration*. Technical report, Global Grid Forum (2002)
6. National Center for Biotechnology Information. <http://www.ncbi.nlm.nih.gov>

References (in Basic)

1. Smith TF, Waterman MS (1981) Identification of common molecular subsequences. *J Mol Biol* 147:195–197. doi:10.1016/0022-2836(81)90087-5
2. May P, Ehrlich H-C, Steinke T (2006) ZIB structure prediction pipeline: composing a complex biological workflow through web services. In: Nagel WE, Walter WV, Lehner W (eds) *Euro-Par 2006*. LNCS, vol 4128. Springer, Heidelberg, pp 1148–1158. doi:10.1007/11823285_121
3. Foster I, Kesselman C (1999) *The grid: blueprint for a new computing infrastructure*. Morgan Kaufmann, San Francisco
4. Czajkowski K, Fitzgerald S, Foster I, Kesselman C (2001) Grid information services for distributed resource sharing. In: 10th IEEE international symposium on high performance distributed computing. IEEE Press, New York, pp 181–184. doi:10.1109/HPDC.2001.945188
5. Foster I, Kesselman C, Nick J, Tuecke S (2002) *The physiology of the grid: an open grid services architecture for distributed systems integration*. Technical report, Global Grid Forum
6. National Center for Biotechnology Information. <http://www.ncbi.nlm.nih.gov>