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The volume editors, usually the program chairs, will be your main points of contact for the preparation of the volume.

2.1 Structuring Your Paper

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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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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	Lowest Level Heading. 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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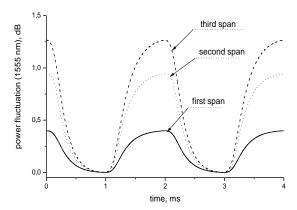


Fig. 1. Power distribution of channel at 1555 nm along the link of 383 km (Source: LNCS 5412, p. 323)

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

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$$x + y = z \tag{1}$$

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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.

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

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References (in MathPhySci, to be used for computer science proceedings)

- 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
- 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)
- 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
- 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)

- Smith TF, Waterman MS (1981) Identification of common molecular subsequences. J Mol Biol 147:195–197. doi:10.1016/0022-2836(81)90087-5
- 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
- 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
- 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