Sample Template for Writing the Working Papers of the Czech National Bank, a Long Title Is Used

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Abstract

This is the template of the Working Papers. This environment should contain the abstract. The JEL codes and keywords must appear below but after the Czech abstract.

Abstrakt

Toto je český abstrakt k příkladu použití šablony Working Papers. Následuje po anglickém abstraktu, po něm se uvedou kódy JEL a klíčová slova.

JEL Codes: B6, B12, B52, Z80. **Keywords:** Template, working paper, table, figure, references.

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The views expressed in this paper are those of the authors and not necessarily those of the Czech National Bank.

Nontechnical Summary

This part of the document is devoted to the nontechnical summary.

1. Section

The document is organized in sections and subsections as shown below.

1.1 Images

The images are inserted preferably using the "graphicx" package. The caption should be placed above the picture, see the sample below.

Figure 1: Sample of Graphics



splot with "set pm3d" (implemented with some terminals)

Note: This example shows inclusion a vector image. *Source:* gnuplot

1.2 Numerical Tables

Numerical tables make use of the "dcolumn" package for alignment on the decimal dot. The sample is given below.

1.3 Wide rotated tables

Wide tables must be rotated. They usually take the whole page.

Jméno	Výška [m]	Váha [kg]
Zlatovláska	1.68	62.3
Dlouhý	12.6	98.1
Široký	1.83	386
Bystrozraký	1.74	74.2

Table 1: Numerical table

2. Preparing Bibliography

The bibliography was prepared using the BibT_EX database. These are selected sample citations:

- \cite{article-minimal}: Aamport (1986a)
- \cite{book-full}: Knuth (1981c)
- \cite{url-demo}: Wagner

The listing of the source BibT_EX file is below.

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tabulka	
Široká	
Table 2:	

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```

References

The Definitive Computer Manual. This is a minimal MANUAL entry

- (1983): Proc. Fifteenth Annual Symposium on the Theory of Computing.
- AAMPORT, L. A. (1986b): "The Gnats and Gnus Document Preparation System." *G-Animal's Journal*, 41(7):73+. This is a full ARTICLE entry
- AAMPORT, L. A. (1986a): "The Gnats and Gnus Document Preparation System." *G-Animal's Journal.*
- KNUTH, D. E. (1981c): Seminumerical Algorithms, volume 2 of The Art of Computer Programming. Addison-Wesley, Reading, Massachusetts, second edition. This is a full BOOK entry
- KNUTH, D. E. (1981): Seminumerical Algorithms. Addison-Wesley.
- KNUTH, D. E. (1973a): Fundamental Algorithms, volume 1 of The Art of Computer Programming, section 1.2, pages 10–119. Addison-Wesley, Reading, Massachusetts, second edition. This is a full INBOOK entry
- KNUTH, D. E. (1973): Fundamental Algorithms, chapter 1.2. Addison-Wesley.
- KNVTH, J. C. (1988): "The Programming of Computer Art." Vernier Art Center, Stanford, California. This is a full BOOKLET entry
- LINCOLL, D. D. (1977b): Semigroups of Recurrences. In Lipcoll, D. J., D. H. Lawrie, and A. H. Sameh, editors, High Speed Computer and Algorithm Organization, number 23 of Fast Computers, part 3, pages 179–183. Academic Press, New York, third edition. This is a full INCOLLECTION entry
- LINCOLL, D. D. (1977a): Semigroups of Recurrences. In High Speed Computer and Algorithm Organization. Academic Press.
- LIPCOLL, D. J., D. H. LAWRIE, AND A. H. SAMEH, editors. (1977C): *High Speed Computer and Algorithm Organization*, number 23 of *Fast Computers*. Academic Press, New York, third edition. This is a cross-referenced BOOK (collection) entry
- MANMAKER, L. (1986): *The Definitive Computer Manual*. Chips-R-Us, Silicon Valley, silver edition. This is a full MANUAL entry
- MANMAKER, L. (1984): Are Computer Manuals Useful? Chips-R-Us.
- MASTERLY, É. (1988b): "Mastering Thesis Writing." Master's project, Stanford University, English Department. This is a full MASTERSTHESIS entry
- MASTERLY, É. (1988a): "Mastering Thesis Writing." Master's thesis, Stanford University.
- MISSILANY, J.-B. (1984): "Handing out random pamphlets in airports." Handed out at O'Hare. This is a full MISC entry
- OAHO, A. V., J. D. ULLMAN, AND M. YANNAKAKIS (1983a): "On Notions of Information Transfer in VLSI Circuits." In Proc. Fifteenth Annual Symposium on the Theory of Computing.
- OAHO, A. V., J. D. ULLMAN, AND M. YANNAKAKIS (1983b): "On Notions of Information Transfer in VLSI Circuits." In Oz, W. V. and M. Yannakakis, editors, *Proc. Fifteenth Annual Symposium on the Theory of Computing*, number 17, in All ACM Conferences, Boston. The OX Association for Computing Machinery, Academic Press. This is a full INPROCEDINGS entry

OVERWOOD, U., N. ÑET, AND P. POT: "Lower Bounds for Wishful Research Results."

OVERWOOD, U., N. ÑET, AND P. POT (1988): "Lower Bounds for Wishful Research Results."

- OZ, W. V. AND M. YANNAKAKIS, editors (1983): Proc. Fifteenth Annual Symposium on the Theory of Computing, number 17, in All ACM Conferences, Boston. The OX Association for Computing Machinery, Academic Press. This is a full PROCEEDINGS entry
- PHONY-BALONEY, F. P. (1988b): "Fighting Fire with Fire: Festooning French Phrases." PhD Dissertation, Fanstord University, Department of French. This is a full PHDTHESIS entry
- PHONY-BALONEY, F. P. (1988a): "Fighting Fire with Fire: Festooning French Phrases." PhD thesis, Fanstord University.
- TÉRRIFIC, T. (1988): "An $O(n \log n / \log \log n)$ Sorting Algorithm." Wishful Research Result 7, Fanstord University, Computer Science Department, Fanstord, California. This is a full TECHREPORT entry
- TERRIFIC, T. (1988): "An $O(n\log n/\log \log n)$ Sorting Algorithm." Technical report, Fanstord University
- ÜNDERWOOD, U., N. ÑET, AND P. POT: "Lower Bounds for Wishful Research Results." Talk at Fanstord University (this is a minimal UNPUBLISHED entry)
- ÜNDERWOOD, U., N. ÑET, AND P. POT (1988): "Lower Bounds for Wishful Research Results." Talk at Fanstord University (this is a full UNPUBLISHED entry)
- WAGNER, Z. "Internet Home Page." (http://icebearsoft.euweb.cz)

Appendix A: Optional Annex

Optional annex is added after \appendix. Usual sectioning commands serve for structuring the document.

A.1 Optional Subsection

Subsections can also be used.

Appendix B: Another Section

This is the second section in the appendix.