

A Sample Article for the ORSNZ Conference 2002

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Abstract

This is the abstract. Your paper should be no more than 10 pages in length.

1 The first section

1.1 The first subsection

This is how to *emphasize* things, do not underline!

1.2 The second subsection

Remember: don't use footnotes!

2 The next section

2.1 Diagrams and tables

Centre your diagrams and tables. Right-justify numbers in tables. Tables look better if there are no vertical lines, and this is almost always achievable. Table headings are above the table, figure headings are below the figure.

Table 1: A table

0	1	1.87
9	5.5	666

2.2 Images

Please convert photographs and screen shots to greyscale before you convert the file to postscript or PDF. (In MSWord, right click the picture, select Format Picture, Picture, Color, Grayscale.) You will be able to preview the image on screen as it would be printed, and the resulting PDF file will be much smaller.

3 Math models

Math models should be set out as prescribed by the editor of the journal Naval Research Logistics. Name the model (e.g. FruitTraNZ below) for handy reference elsewhere in the paper. Following mathematical tradition, you should italicize parameters, variables, and subscripts. Font style and size should match the document's text. It is helpful to distinguish parameters from decision variables by case of the letter. Usually parameters are upper case and decision variables are lower case. Here is an example:

Indices i = plant: Chch, Auckland; j = wholesaler: 1, ..., 5.

Parameters C_{ij} = cost to send a box from plant i to wholesaler j ; K_i = production capacity of plant i ; D_j = boxes of demand at wholesaler j .

Decision variables $x_{i,j}$ = boxes to send from plant i to wholesaler j .

Model FruitTraNZ 1. Minimize $\sum_{i=1}^2 \sum_{j=1}^5 C_{ij}x_{i,j}$.

2. $\sum_{j=1}^5 x_{i,j} = K_i$ for i = Chch, Auckland.

3. $\sum_{i=1}^2 x_{i,j} \geq D_j$ for $j = 1, 2, \dots, 5$.

4. $x_{i,j} \geq 0$.

Explanation 1. Objective is to minimize total transportation cost.

2. Cannot make more than capacity at the plant.

3. Satisfy demand for each wholesaler.

4. Cannot send boxes from a wholesaler to a plant.

4 Readability

Please proofread your paper and use a spelling checker. Spelling should follow the Oxford English Dictionary. Authors (especially new authors) are urged to study a style manual such as the famous one of Strunk and White.

5 Submission format

Please submit your documents in "printer-ready" form, as PostScript or Adobe PDF. If you cannot produce a PostScript or PDF file, please contact the editor of the Proceedings. Send your file to [proceedings editor, email address.]

6 How to reference other articles

Format references as in the journal Management Science. Perhaps easiest is to use the achicago package and achicago bibstyle. An example of a citation is (Dantzig, Fulkerson, and Johnson 1954) and (Kruskal 1956). There are other options, see the achicago documentation. Please avoid using abbreviations of journals in the references.

Reference a web page in the text by its author and the date that you check it, as University of Canterbury (2002). In the Reference section, give its author, title,

URL, and the date that you checked it. This is easily done by manipulating the .bbl file directly if you can't work out how to do it with BibTeX.

7 LaTeX notes

Included is an alteration of the standard article.cls, called ORSNZ.cls. This ORSNZ.cls is then referred to in ORSNZ.sty which is a very slightly altered form of achicago.sty. It is therefore safest not to change the name of ORSNZ.cls, but others can be changed. The subsidiary files used by achicago.sty must also be used with ORSNZ.sty. These are included in the `frankenstein` package, available from CTAN. The latter package is included in the tarfile that includes ORSNZ.cls, etc, for convenience. Installing `frankenstein` properly is probably worth the effort, instructions are provided. It is possible, but trickier, to avoid this.

Acknowledgments

Acknowledgments can appear in an unnumbered section preceding the references. The MS Word version of this article was revised by John F. Raffensperger, based on a version by Andrew Mason, University of Auckland. This LaTeX version was prepared by Mark Wilson and Golbon Zakeri, University of Auckland.

References

- Dantzig, G.B., D.R. Fulkerson, and S.M. Johnson. 1954. "Solution of a large-scale traveling-salesman problem." *Operations Research* 2:393–410.
- Kruskal, J.B. 1956. "On the Shortest Spanning Subtree of a Graph and the Travelling Salesman Problem." *Proceedings of the American Mathematical Society* 7:48–50.