

Homework #2
Engineering Optimization (ISyE 4231) - Spring 2001
Due January 22, 2000

1. (50pt) Select an article on the application of operations research to solve a practical problem and write a summary of the article. The following are some of the journals that you can use to select your article:

- Annals of Operations Research
- Computers and Operations Research
- Decision Sciences
- European Journal of Operational Research
- IIE Transactions
- Informs Journal on Computing
- Interfaces (recommended)
- International Journal of Production Research
- Management Science (recommended)
- Naval Research Logistics Quarterly
- Networks
- Operations Research (recommended)
- Operations Research Letters
- Transportation Science
- OR/MS Today

Make a copy of the first page of your selected article and write the full reference of the article and the journal if it is not already printed on the first page. Choose an article that is published after June 1999.

Your summary should be typed, font size between 10 and 12, and not to exceed two pages. You are welcome to include figures and tables and in that case you may use additional pages. All quotations must be explicitly indicated as such by putting them between quotation marks. All other references must be given at the end of the summary. An example of a reference in text is as follows:

... Rothkopf et al. [1998] discuss the difficulties...

An example of a reference listing at the end of your summary is as follows:

Rothkopf, M.H.; Pekec, A.; and Harstad, R.M. 1998, "Computationally manageable combinatorial auctions," *Management Science* Vol. 44, No. 8, pp. 1131-1147.

Your summary should at least include the following:

- A brief statement of what the article is about.
- The problem(s) addressed in the article and the modeling assumptions made.
- A synopsis of the major results and conclusions.
- The type of operations research techniques used.
- Lessons for people involved in industrial engineering/operations research, and what you learned from the article.

You will be graded on the basis of both the quality of the contents and the clarity of your writing.