

Data envelopment analysis literature: a bibliography update (1951–2001) [☆]

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Abstract

Seiford (Socio-Economic Plann. Sci., 2003, forthcoming) provided a comprehensive bibliography of the data envelopment analysis literature up to and including 1995. Since then the literature published in refereed journals has grown by 150%. This paper updates and in a sense upgrades the said bibliography based on an exhaustive search of several leading databases.

Keywords: DEA; Efficiency analysis; Data envelopment analysis; Bibliography

1. Introduction

Since the original DEA study by Charnes, Cooper and Rhodes (1978)[1],¹ there has been a rapid growth in the field. Due to the interdisciplinary nature of much of the research, there is a need for a single source of referencing the wide range of article appearing in the literature.

Thus Seiford [2] introduced an exhaustive bibliography of “over 800” DEA publications circa end of 1995. Serafoglou [3] estimated that bibliography to include approximately 700 articles in refereed journals, the others being dissertations, proceedings and/or book chapters. As of this writing the literature base consists of over 1800 articles in refereed journals worldwide in addition

[☆]There is widespread agreement that Charnes et al. [1] represents the “official birth” of DEA. However, as pointed by Forsund and Sarafoglou [4] several “pre-natal” papers provided the seminal background. Thirteen such papers are included in this database.

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¹ According to bibliometric standards, a paper with over 500 citations is considered a classic. This paper has 989 as of February 2003 according to the web-based SSCI (ISI web knowledge) and others in SCI [5].

to many books, conference proceedings and various types of monographs.² Significantly, for the period included in the above Seiford bibliography e.g., 1951–end of 1995, our search lists over 800 articles published in refereed journals during the same period, adding more than 100 papers to Seiford's list. Also, our list covers much more than the 1200 papers published in refereed journals as reported in Tavares [6] database, covering a longer period e.g., circa December 2001.

This listing of DEA related refereed journal publications is exhaustive³ circa August 2001. It is a pooled set obtained from searching the following six online professional databases: ABI, ECONLIT, Science Direct (Elsevier), JSTOR, Kluwer Verlag, and Wiley Inter Science. The following three private online DEA databases were also of great help and are acknowledged here [7–9]:

<http://rutcor.rutgers.edu/~gtavares/>
<http://www.deazone.com/bibliography/index.htm>
<http://www.uq.edu.au/~ganavkir/>
 as well as a database provided in Cooper et al. [10].

This bibliography is extracted from no fewer than 490 distinct refereed journals published worldwide [11]⁴.

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²This bibliography does not include books, conference proceedings, theses or dissertations.

³Clearly there may well be some omissions and some inclusions that are potentially questionable. Any and all such instances are due to happenstance, not design. It is our hope that papers falling in either category are few. The intent was to have the bibliography be exhaustive. However, some relevant papers may have been missed. The authors will be grateful to be informed of such references. They will be included in future updates.

⁴The bibliography includes papers published in Spanish, French, German, Italian, Japanese, Polish and Turkish language journals.

Full list of DEA references published in refereed journals during the period 1951–2001(August)

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