

The Most-Cited Statistical Papers

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ABSTRACT We attempt to identify the 25 most-cited statistical papers, providing some brief commentary on each paper on our list. This list consists, to a great extent, of papers that are on non-parametric methods, have applications in the life sciences, or deal with the multiple comparisons problem. We also list the most-cited papers published in 1993 or later. In contrast to the overall most-cited papers, these are predominately papers on Bayesian methods and wavelets. We briefly discuss some of the issues involved in the use of citation counts.

KEY WORDS: Citations, history of statistics

Citations in General

There has been much discussion of the uses of citation counts in the literature, although not with respect to the statistics literature with the exceptions of Stigler (1994), Altman & Goodman (1994), and Theoharakis & Skordia (2003). Austin (1993) assessed the reliability of citation counts in making tenure and promotion decisions in academia, while Gilbert (1977) and Edge (1979) have considered citation counts as measures of the influence of research. See also Cronin (1984).

Edge (1979) criticized citation counts as being overused to measure intellectual linkages. Others have made similar criticisms. Despite such criticisms, however, the use of citation counts seems to be increasing. The National Research Council, for example, uses citation rates as one measure to rank PhD programmes in statistics and other fields. In addition, citation counts appear to be increasingly used in promotion decisions in academia, in addition to ranking scientific journals. Using ISI *Journal Citation Reports*, for example, one can determine that among the 71 journals in the Statistics and Probability category, *Statistical Science* ranked fifth in citation impact factor and 16th in the total number of citations received in 2002 with 1,051.

In attempting to determine the causal factors for highly cited papers, Donoho (2002) gave a list of suggestions for writing papers that would receive a large number of citations. At the top of his list was 'Develop a method which can be applied on statistical data of a kind whose prevalence is growing rapidly'. For example, if someone could develop 'the' approach to data mining, the paper would undoubtedly garner a huge number of citations.

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