# JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION

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## AMERICAN STATISTICAL ASSOCIATION

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# THE ANNALS
# OF MATHEMATICAL STATISTICS

## INSTRUCTIONS FOR AUTHORS

**Submission of Papers.** Papers to be submitted for publication should be sent to the Editor of the *Annals of Mathematical Statistics*. (For current address, see the latest issue of the *Annals*.) The original (or xerox copy) should be submitted with two additional copies on paper that will take ink corrections. The manuscript will *not* normally be returned to the author; when expressly requested by the author, one copy of the manuscript will be returned.

**Preparation of Manuscripts.** Manuscripts should be typewritten, entirely double-spaced, including references, with wide margins at sides, top and bottom. Dittoed or mimeographed papers are acceptable only if completely legible; xerox copies are preferable. When technical reports are submitted, all extraneous sheets and covers should be removed.

**Submission of Reference Papers.** Copies (preferably two) of unpublished or not easily available papers cited in the manuscript should be submitted with the manuscript.

**Title and Abbreviated Title.** The title should be descriptive and as concise as is feasible, i.e., it should indicate the topic of the paper as clearly as possible, but every word in it should be pertinent. An abbreviated title to be used as a running head is also required, and should be given below the main title. This should normally not exceed 35 characters. For example, a title might be "A Limit Theorem for Conditioned Recurrent Random Walk Attracted to a Stable Law," with the running head "Limit Theorem for Recurrent Random Walk" or possibly "Recurrent Random Walk Attracted to a Stable Law", depending on the emphasis to be conveyed.

**Abstract.** Each manuscript is required to contain an abstract, which will be printed immediately after the title, clearly separated from the rest of the paper. Its main purpose is to inform the reader quickly of the nature and results of the paper; it may also be used as an aid in retrieving information. The length of an abstract will clearly depend on the length and difficulty of the paper, but in general it should not exceed 150 words. It should be typed on a separate page, under the heading "Abstract", followed by the title of the paper. Formulas should be used as sparingly as possible. The abstract should not make reference to results or formulas in the body of the paper—it should be self-contained.

**Footnotes.** Footnotes should be reduced to a minimum and, where possible, should be replaced by remarks in the text or in the references; formulas in footnotes should be avoided. Footnotes in the text should be identified by superscript numbers and typed together, double-spaced, on a separate page.

**Key Words.** Included as the first footnote on page 1 should be the headings:

American Mathematical Society 1970 subject classification. Primary—; Secondary—.
Key words and phrases:

The classification numbers representing the primary and secondary subjects of the article may be found with instructions for its use, as an Appendix to *Mathematical Reviews* Index to Volume 39, June 1970. (See, also, *The Notices of the American Mathematical Society*, June 1970, pp. 616–618, for more details.) The key words and phrases should describe the subject matter of the article; generally they should be taken from the body of the paper.

**List of Symbols.** A completely typewritten list of symbols, identified typographically, not mathematically, should be attached to the manuscript on a separate page. Distinguish between "oh" and "zero"; "ell" and "one"; "kappa" and "kay", etc. Indicate also when special type is required (Greek, German, script, boldface, etc.); other letters will be set in italics.

**Figures and Tables.** Figures, charts, and diagrams should be prepared in a form suitable for photographic reproduction and should be professionally drawn twice the size they are to be printed. (These need not be submitted until the paper has been accepted for publication.) Tables should be typed on separate pages with accompanying footnotes immediately below the table.

**Formulas.** Fractions in the text are preferably written with the solidus or negative exponent; thus, $(a + b)/(c + d)$ is preferred to $\frac{a + b}{c + d}$, and $(2\pi)^{-1}$ or $1/(2\pi)$ to $\frac{1}{2\pi}$. Also, $a^{b(c)}$ and $a_{b(c)}$ are preferred to $a^{b_c}$ and $a_{b_c}$, respectively. Complicated exponentials should be represented with the symbol exp. A fractional exponent is preferable to a radical sign.

**References.** References should be typed double-spaced and should follow the style:

[5] Wilks, S. S. (1938). The large-sample distribution of the likelihood ratio for testing composite hypotheses. *Ann. Math. Statist.* 9 60–62.

In textual material, the format "... Wilks (1938) ..." is normally preferred to "... Wilks [5] ...". Multiple references can be distinguished as "... Wilks (1938a) ...". Abbreviations for journals should be taken from *Mathematical Reviews* Index to Volume 40, 1970, pp. 1683–1702.

**Proofs.** Author will ordinarily receive galley proofs. Corrected galley proofs should be sent to the Managing Editor of the *Annals of Mathematical Statistics*. (For current address, see the latest issue of the *Annals*.)

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## Short Communications