

# INFORMATION FOR AUTHORS

IEEE TRANSACTIONS ON COMPUTERS is published monthly, with a distribution of over 18,000 copies, largely to engineers, logicians, and supervisors in the computer field. Its scope includes: a) all aspects of design, theory, and practice relating to systems for digital and analog computation and information processing; b) components and circuits for digital and analog systems, including techniques for accomplishing the functions of logic, arithmetic, storage, control, mass data storage, input, output, and external communication in such systems; c) relevant portions of supporting disciplines, including switching theory, symbolic logic, numerical methods, codes and number representation systems, abstract machine or automata theory, bio-sciences, machine learning, pattern recognition, and other extensions of logical machine capabilities; d) production, testing, operation, and reliability of digital and analog systems; and e) those aspects of application, use, and programming of digital and analog computing devices and information processing systems that relate to their design and operation.

If a paper of widespread interest beyond the computer field is submitted, it will be recommended to the Editor of PROCEEDINGS OF THE IEEE for publication. If our reviewers feel that a paper should be submitted to a different IEEE TRANSACTIONS, we will so recommend to the author.

Publication time in IEEE TRANSACTIONS ON COMPUTERS, from receipt of the original manuscript to mailing of the issue, is normally in excess of 5 months, but can be made as little as 4½ months if the occasion demands and the manuscript is carefully prepared.

To avoid delay, please be guided by the following suggestions.

## A. Process for Submission of a Technical Paper

- 1) Send to the appropriate Editor *four* copies of your manuscript, each copy complete with illustrations, abstract, and index terms.
- 2) Enclose with each manuscript, on a separate page, from five to ten index terms (key phrases). These terms should be relatively independent (coordinate index terms), and as a group should optimally characterize the paper.
- 3) Enclose originals for the illustrations, in the style described below. Alternatively, good quality copies may be sent initially, with the originals ready to be sent immediately upon acceptance of the paper.
- 4) Enclose a separate page giving your preferred address for correspondence and return of proofs.
- 5) Enclose a technical biography and photograph of each author of a paper (not for a Short Note or Correspondence), or be ready to supply these upon acceptance of the paper. For biography style, see any IEEE TRANSACTIONS.
- 6) If the manuscript has been presented, published, or submitted for publication elsewhere, please so inform the Editor. Our primary objective is to publish technical material not available elsewhere, but on occasion we publish papers of unusual merit that have appeared or will appear before other audiences.
- 7) If you are willing to have your manuscript added to the Computer Society Repository (see *B* below), please include the following statement: "You have the author's/authors' permission to distribute his/their manuscript through the repository system."

The copy of the manuscript submitted for the Repository must be of good reproducible quality (ditto copies not acceptable) with no oversize plates.

## B. Repository System

In order to make research results quickly available to the Computer Society membership, submitted manuscripts (with the author's permission) may be added to a repository, in which case the author's abstract will be published as soon as possible in COMPUTER magazine, and copies of the manuscript will be available for an indicated price. [See 7) above.]

## C. Style for Manuscript

- 1) Typewrite, double or 1½ space; use one side of sheet only. (Good office-duplicated copies are acceptable.)
- 2) Provide an informative 100- to 250-word abstract at the head of the manuscript. Short Notes and Correspondence require an abstract of 50 words or less. The abstracts are printed with the articles and are also used for repository purposes (see *B* above).
- 3) Provide a separate double-spaced sheet listing all footnotes, beginning with "Affiliation of author" and continuing with numbered references. Acknowledgment of financial support may be given if appropriate.

4) References may appear as numbered footnotes, or in a separate bibliography at the end of the paper, with items referred to by numerals in square brackets, e.g., [12]. In either case, references should be complete, and in IEEE style.

Style for papers: Author, first initials followed by last name, title, volume, month and year, inclusive page numbers.

Style for books: Author, title, publisher and location, year, chapter or page numbers (if desired).

(See this or previous issues for further examples.)

- 5) Provide a separate sheet listing all figure captions, in proper style for the typesetter, e.g.: "Fig. 1. Example of a disjoint and distraught manifold."

6) For further information see "Information for IEEE Authors," available from the IEEE Editorial Department, 345 East 47 Street, New York, N. Y. 10017.

## D. Style for Illustrations

- 1) Originals for illustrations should be sharp, noise-free, and of good contrast. We regret that we cannot provide drafting or art service.
- 2) Line drawings should be in India ink on drafting cloth, paper, or board. Use 8½ by 11-inch size sheets if possible, to simplify handling of the manuscript.
- 3) On graphs, show only the coordinate axes, or at most the major grid lines, to avoid a dense, hard-to-read result.
- 4) All lettering should be large enough to permit legible reduction of the figure to column width, perhaps as much as 4:1.
- 5) Photographs should be glossy prints, of good contrast and gradation, and any reasonable size.
- 6) Number each original on the back, or at the bottom of the front.
- 7) Note item C-5 above. Captions lettered on figures will be blocked out in reproduction, in favor of typeset captions.

**Voluntary Page Charges:** After a manuscript has been accepted for publication, the author's company or institution will be requested to pay a voluntary charge of \$60 per printed page to cover part of the cost of publication. Page charges for this IEEE TRANSACTIONS are not obligatory nor is their payment a prerequisite for publication. The author will receive 100 free reprints without covers if the charge is honored. Detailed instructions will accompany the galley proof. Administration of the page charges is handled by the New York office, and the editorial staff of this TRANSACTIONS has no connection with it.

*Mail simulation and applications—  
analog, digital, or hybrid—  
manuscripts to:*

Prof. George A. Bekey  
Associate Editor, IEEEETC  
Dept. of Electrical Engineering  
University of Southern California  
Los Angeles, Calif. 90007

*Mail computer architecture and  
systems manuscripts to:*

Prof. Michael J. Flynn  
Associate Editor, IEEEETC  
Dept. of Computer Science  
The Johns Hopkins University  
Baltimore, Md. 21218

*Mail current technology  
manuscripts to:*

Dr. Howard H. Campaigne  
Associate Editor, IEEEETC  
Dept. of Mathematics  
Slippery Rock State College  
Slippery Rock, Pa. 16057

*Mail logic design and combinational  
theory manuscripts to:*

Prof. Amar Mukhopadhyay  
Associate Editor, IEEEETC  
Dept. of Computer Science  
University of Iowa  
Iowa City, Iowa 52240

*Mail pattern recognition  
manuscripts to:*

Dr. Richard O. Duda  
Associate Editor, IEEEETC  
333 Ravenswood Ave.  
Stanford Research Inst.  
Menlo Park, Calif. 94025

*Mail all other manuscripts  
to:*

Prof. Robert A. Short  
Editor-in-Chief, IEEEETC  
Dept. of Electrical Engineering  
Oregon State University  
Corvallis, Ore. 97331