THE BOOKSHELF

Just Out ...

Proceedings of the 1976 Symposium on Computer-Aided Diagnosis of Medical Images, November 11, 1976—100 pp.

This one-day symposium, held in conjunction with the Third International Joint Conference on Pattern Recognition, featured 16 papers on such topics as medical imaging from both the engineer's and the physician's viewpoint, recognition of vessel shadows, quantitative diagnosis of early pulmonary edema, picture processing of echocardiographic data, dynamic boundary surface detection, interactive graphics for lung volume determination, image processing for computer tomography, and studies on the utility of brain scanning.
Non-members—$12.00   Members—$9.00

Proceedings of the 3rd International Joint Conference on Pattern Recognition, November 8-11, 1976—680 pp.

Contains over 150 papers on industrial applications, feature extractions and primitive selection, syntactic methods in pattern analysis, optical character recognition, learning algorithms and sample sizes, line drawing and waveform processing, interactive pattern analysis, statistical pattern recognition theory, perceptual modeling, clustering, linguistic applications and natural language processing, segmentation and shape encoding, medical image processing and pattern analysis, picture description and scene analysis, speech recognition, remote sensing, parallel processing and two-dimensional digital filtering, edge and object recognition, pattern recognition applications, image analysis and texture, and data base computer systems.
Non-members—$25.00 Members—$18.75

Digest of Papers from the 1976 Semiconductor Test Symposium, October 19-21, 1976—105 pp.

Symposium covers LSI testing before, during, and after production from the standpoint of the vendor, user, and test equipment manufacturer. Digest topic headings include "Memory," "Microprocessors," "Reliability," "Design for Testability," "Test Facilities and Techniques," and "Test Languages."
Non-members—$16.00 Members—$12.00

Ninth Annual Workshop on Microprogramming, September 27-29, 1976—61 pp.

MICRO 9 proceedings covers bit slice architecture, certification by an algebraic method, implementation of a scheduler, PDP-11 emulation, design problems in emulating the MIX computer on the Microdata 1600, designing machine independent microprogramming languages, realization of a virtual machine, an approach to software/firmware high level language support, automated proofs of microprogram correctness, and a machine architecture for efficient matrix multiplication.
Non-members—$8.00   Members—$6.00

Proceedings of the Third International Conference on Computer Communication, August 3-6, 1976—655 pp.

Proceedings could be considered the single most valuable document reflecting the global state of the art in computer communication. Text covers the activities in progress in computer communications throughout the world, including presentations from authors representing more than a dozen different countries.
Non-members—$35.00 Members—$28.00

Information Technology Series, Volume 1, AFIPS Press

The Information Technology Series brings together in specialized volumes the most valuable papers from past National Computer Conferences. This, the first volume, contains 16 papers on data base management systems. Ben Shneiderman, editor, of the University of Maryland provides excellent introductions to the areas covered: management and utilization perspectives, implementation and design of data base management systems, query languages, security, integrity, privacy and concurrency, and specification, simulation and translation of database systems.
Non-members—$15.00 Members—$11.25

1976 Publications

Proceedings of the International Symposium on Technology for Selective Dissemination of Information, September 8-10, 1976—161 pp.

Proceedings from this symposium, held in the Republic of San Marino, includes papers on data base systems, information systems, data networks, transmission technology, data management, user-oriented systems, interactive graphics, and applications in education and humanities.
Non-members—$16.00 Members—$12.00

Proceedings of the Second International Conference on Software Engineering, October 13-15, 1976—700 pp.

Topics covered in this proceedings include software requirements and specifications, program synthesis techniques, operating systems, education, performance evaluation, networks, design and development, programming languages, modeling, testing, tools, and case studies.
Non-members—$20.00 Members—$15.00

Designing with Microprocessors Tutorial, September 7, 1976—150 pp.

Unique workshop on the principles and practice of microprocessor design. Topics include chip architecture, microprocessor selection criteria, software aids, development systems, microprocessor applications, networks, bussing strategies, and distributed intelligence.
Non-members—$10.00 Members—$7.50

Digest of Papers from COMPCON 76 Fall: "Computers by the Millions for the Millions," September 7-10, 1976—350 pp.

Digest, from the IEEE Computer Society's own international conference, includes topics dealing with components, hardware and software, system design, and application, presented by many of the leading computer scientists and specialists in the world today.
Non-members—$20.00 Members—$15.00

Digest of Papers of the 1976 International Optical Computing Conference, August 31-September 2, 1976—150 pp.

The digest serves as an update on the technical growth and broadening application of optical computing, and as a medium for presentation of new thinking and creative approaches to information processing. Included in the digest are 35 papers dealing with the wide scope of topics that optical computing encompasses.
Non-members—$16.00 Members—$12.00

Proceedings of the 1975 Winter Simulation Conference, December 18-19, 1975—794 pp.

Papers presented are evenly divided between discrete system simulation and continuous system simulation. Topics include languages, aerospace applications, biomedical simulation, financial models, managerial applications, environmental systems, simulation in government, health services, behavior models, methodology, emulation of computer systems, analog/hybrid systems, and applications in transportation and manufacturing. A total of 25 technical sessions are presented.
Price—$30.00