



## THE BOOKSHELF

### Just Out

**168: Computing Systems for Real-Time Applications—Proceedings of the Seventh Texas Conference on Computing Systems, October 30–November 1, 1978—252 pp.**

This conference examined various aspects of real-time computing in eight sessions; the proceedings present 30 papers from the sessions. Topics include real-time operating systems, real-time applications of microcomputers, software verification and validation, real-time programming, distributed computing, multiprocessor systems, and storage techniques.

Non-members—\$22.00 Members—\$16.50

**176: Proceedings—4th Symposium on Computer Arithmetic, October 25–27, 1978—274 pp.**

Sponsored by the IEEE Computer Society in cooperation with the UCLA Computer Science Department, this year's symposium examined the theoretical foundations, software and hardware implementation, and applications of computer arithmetic, with an emphasis on new number representation systems and algorithms.

Non-members—\$22.00 Members—\$16.50

**188: Proceedings of the Fourth International conference on Very Large Data Bases, September 13–15, 1978—555 pp.**

The conference served as a forum for the exchange of ideas among users, designers, and researchers regarding data bases which are very large—both in terms of complexity of structure and physical size. The proceedings reflect traditional areas in VLDB and new

research disciplines such as system distribution, very high-level hardwares, design methodologies, and human interfaces. Both technical and survey papers are presented.

Non-members—\$25.00 Members—\$18.75

**198: Proceedings of the Second Annual Symposium on Computer Applications in Medical Care, November 5–9, 1978—667 pp.**

Presenting 95 papers spanning a variety of application areas, these proceedings represent the interests of the emerging, interdisciplinary field called "medical computing." Application areas examined include medical imaging, nuclear medicine, radiation therapy, computer-patient dialogue, medical data bases and information systems, and clinical laboratory testing.

Non-members—\$25.00 Members—\$18.75

**205: 19th Annual Symposium on Foundations of Computer Science, October 16–18, 1978—290 pp.**

Formerly the Symposium on Switching and Automata Theory, SWAT now has a new name—the Symposium on Foundations of Computer Science. Program topics include analysis of algorithms, computational complexity, formal languages, mathematical theory of computation, switching and automata theory, and theory of programming, compiling, and formal semantics. This year's proceedings include 33 technical papers.

Non-members—\$22.00 Members—\$16.50

**206: Computer Networks and Communication—AFIPS Press Information Tech-**

**nology Series Volume IV, edited by Robert R. Korfhage, 1978—251 pp.**

Presenting 24 papers from SJCC, FJCC, NCC, and USA/Japan conferences spanning the period 1972–1977, this volume contains six major sections. They cover the history of networks, Arpanet, other networks, network communications, network design and modeling, and non-technical aspects of networking.

Non-members—\$20.00 Members—\$15.00

**210: LSI & Boards—Digest of Papers, 1978 Semiconductor Test Conference, October 31–November 2, 1978—301 pp.**

Approximately 50 papers from the symposium address topics of semiconductor and LSI testing, designing for testability, and test strategies. With primary emphasis on technical content, the symposium examined the adequacy of present LSI testing and provided a forum for the discussion of mutual problems among vendors, users, and test equipment manufacturers.

Non-members—\$20.00 Members—\$15.00

**214: Engineering Management in the Computer Age—Proceedings of the 26th Annual Joint Engineering Management Conference, October 16–18, 1978—173 pp.**

These proceedings examine the use of computers by engineering management. Approximately 45 papers cover topics such as computer-aided project management, management information systems, office automation, and the management of software generation.

Non-members—\$16.00 Members—\$12.00

**218: Papers of the Fourth Workshop on Computer Architecture for Non-Numeric Processing, August 1–4, 1978—133 pp.**

Sponsored by ACM SIGARCH, SIGIR, and SIGMOD, in cooperation with the IEEE Computer Society's Technical Committees on Computer Architecture and Data Base Engineering and Syracuse University, these proceedings present 17 papers on various aspects of non-numeric processing. Specific topics include concurrent accessing of distributed data bases, relational data bases, and information retrieval systems.

Non-members—\$10.50 Members—\$8.50

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