Just out . . .

Workshop proceedings include (1) formal papers covering system architecture using microprogramming, operating system support, higher level language support, and analysis of microinstructional encoding; and (2) numerous papers from workshop sessions covering a broad perspective on the field of microprogramming.
Non-members—$12.00 Members—$8.00

Fifth Data Communications Symposium, September 27-29, 1977—100 pp.
The Data Communications symposia have encouraged researchers to examine the operational, economic, and regulatory—rather than purely technical—aspects of data communications networks. The Fifth DATACOM, dedicated to the widespread use of communications networks, emphasizes practical issues and actual network use. Considerable attention is given to protocols and the impact of networks on host systems.
Non-members—$20.00 Members—$15.00

*Tutorial on Distributed Processing, September 6-9, 1977—450 pp.
This tutorial, held in conjunction with COMPCON 77 Fall, provides an introduction to distributed processing concepts. It emphasizes technological issues involving communications, inter-computer coupling, executive software structures, system architecture, component selection, and the allocation of functions and data files to multiple processors.
Non-members—$16.00 Member—$12.00

Digest of Papers from COMPCON 77 Fall: Micros, Minis, and Maxis—Technological Thrust vs. User Requirement, September 6-9, 1977.
Digest of papers presented at the conference treats the following major themes: software, component technology and memories, distributed processing, system technology, applications, peripherals, and microprocessors.
Non-members—$20.00 Members—$15.00

Recent publications

The Rocky Mountain symposia on microcomputers are organized as a forum for presentation and discussion of basic research in the field of microcomputers. The aim is to encourage a broad base of interaction between the industrial, governmental, and academic communities to provide guidance and feedback (1) for the directions of basic research and (2) for the effective implementation of research achievements. Fourteen papers are included in this first symposium collection.
Non-members—$12.00 Members—$9.00

Sponsored by Purdue University's Laboratory for Applications of Remote Sensing (LARS) and other professional groups, including the Computer Society, the symposium presents new results in the theory, technology, and applications of computer processing of remotely sensed data. Some 70 papers are presented revolving around two main program thrusts—sessions reporting on machine processing research and techniques in which the primary end product is an algorithm or computer hardware, and sessions centered around the use of machine processing hardware/software to solve particular remote sensing applications problems.
Non-members—$25.00 Members—$18.75

At this conference practitioners discuss approaches to flexible and intelligent human interface to pattern and pictorial data. Proceedings contains some 65 papers organized under the headings of pattern and image analysis, structural pattern recognition, image models, medical applications, speech pattern recognition, syntactic pattern recognition, industrial applications, shape analysis, scene analysis, multimage processing, statistical pattern recognition, and character and signature recognition.
Non-members—$20.00 Members—$15.00

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reasonably broad coverage of the various topics in fault-tolerant computing. The emphasis is on diagnosis and testing, following the historical pattern of concentration of research activity in these areas. Specific topics include diagnosis of digital systems and circuits, reliability modeling and analysis, design and implementation of fault-tolerant systems, and probabilistic analysis of test methods.
Non-members—$20.00 Members—$15.00

Workshop proceedings describes recent developments in computer science and engineering education: model curricula and implementations, microprocessors in computer science and engineering, software engineering topics, the hardware/software boundary, outlook on CSE education, and information systems education.
Non-members—$16.00 Members—$12.00

This collection of papers represents the latest views and analyses of more than 30 specialists on the subject of oil identification and its relation to pattern recognition. Theories, laboratory experiments, and on-site tests were cross-examined. A sampling of topics on the agenda includes: effects of weathering on oils; statistical concepts in oil identification; cluster analysis of oil spectral data; pattern recognition programs; applications to oil identification; on the efficiency of pattern recognition methodologies; an online computerized infrared identification system; statistical considerations of oil identification by infrared spectroscopy; pattern recognition approaches for crude oil classification; and rationing methods applied to gas chromatographic data for oil identification.
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*First announcement of availability. This book is not described in our 1977 Publications Catalog.
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