Just Out . . .

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—$25.00 Members—$18.75

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 application 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 63 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, multiple-image processing, statistical pattern recognition, and character and signature recognition.
Non-members—$20.00 Members—$15.00

Sponsored by the IEEE Computer Society, this symposium presents balanced, reasonable, and 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 describe 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.
Non-members—$12.00 Members—$9.00

1977 Publications

The set of design tools and practices collectively known as "design automation" had its origin some 20 years ago. Since then, the field has expanded to include not only computer design but also such diverse items as ship building, land use, and computer software/firmware. These conferences chronicle this adaptation of the basic processes to many technologies. Topics include testing, simulation, physical design, systems design, and software and architectural design automation.
Non-members—$25.00 Members—$18.75

Proceedings contains papers in the following areas: mathematical techniques, interactive systems, interactive pattern analysis, digital transforms, data network, data analysis, digital filtering, and discrimination and recognition.
Non-members—$12.00 Members—$9.00

This collection of 18 reprints from Computer is intended to introduce both the student and the engineering practitioner to the subjects of microprocessors and minicomputers as we have treated them in Computer over the past two years. Beginning with an introductory tutorial, the articles are organized into sections on technology, architecture, software, and applications, and conclude with a bibliography.
Non-members and members—$7.50

Papers represent a wide range of topics from the symposium's sessions: mathematical aspects of multiple-valued logic, fuzzy logic, switching theory, formal aspects of multiple-valued logic, and applications and implementations of multiple-valued logic. Knitting together these diverse areas is the thread of "several (perhaps infinite) valuedness."
Non-members—$20.00 Members—$15.00

*First announcement of availability. This book is not described in our 1977 Publications Catalog.
**Announced in 1977 Publications Catalog as Microprocessor Architecture and Applications.
Note: Members in Regions 8, 9, and 10 are entitled to a 50% discount off the non-member price (prepaid orders only). This discount applies to the first copy only.