**Recent publications**

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**Tutorial on Quantitative Management: Software Cost Estimating, November 8, 1977—300 pp.**  

This tutorial, held in conjunction with COMPSAC 77, covers the life cycle costing of large-scale application software from two viewpoints: that of a government sponsor and that of a contract software developer.  

Non-members—$16.00  
Members—$12.00  

**Tutorial on Program Testing, November 8, 1977—400 pp.**  

Held in conjunction with COMPSAC 77, this tutorial covers the latest technology, tools, and techniques; effectiveness; and management methods of systematic program testing.  

Non-members—$13.50  
Members—$10.00  


This definitive work on software generation methodology and applications is a compilation of papers from 44 sessions comprising COMPSAC 77. Both practical and abstract ideas on software generation methodology—such as requirements analysis and specification, life cycle modeling, and methodologies for designing, developing, testing, verifying, and validating software—were discussed.  

Non-member—$15.00  
Member—$18.75  


Intended for both beginning and experienced designers, this book contains 25 key papers as well as original material explaining design concepts. The contents include the following areas: introduction, framework of design, elements of design techniques, design tools, design methodologies, examples, and an annotated bibliography.  

Non-members—$12.00  
Members—$9.00  

**Proceedings of the Tenth Annual Workshop on Microprogramming, October 5-7, 1977—133 pp.**  

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  

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**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—$16.00  
Member—$12.00  

**First Rocky Mountain Symposium on Microcomputers: Systems, Software, Architecture, August 31-September 2, 1977—310 pp.**  

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  

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**Machine Processing of Remotely Sensed Data, June 21-23, 1977—358 pp.**  

Sp. Proc. 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  

**Conference on Pattern Recognition and Image Processing, June 6-8, 1977—399 pp.**  

At this conference practitioners discuss approaches to flexible and intelligent human interface to pattern and pictorial data. Proceedings contain 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, multi-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, 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  

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**This book is not described in our 1977 Publications Catalog.**  

Note: Members in Regions 8, 9, and 10 (Western Europe, Latin America, and the Pacific Basin) are entitled to a 50% discount off the non-member price (prepaid orders only). This discount applies to the first copy only.  

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