Digest of Papers from the First Texas Symposium on Computer Systems

A digest of the outstanding papers presented by members of the industrial and university communities at the First Texas Symposium on Computer Systems held in Austin, Texas, on June 29 and 30, 1972. Topics include hardware and software aspects of the following: Reliability and Diagnosis; System Evaluation and Optimization; Information Systems; Minicomputer Applications; and Parallel Computation.
Price—$12.50 Member Price—$10.00


The outstanding success of last year's symposium has established the Fault-Tolerant Computing Symposium as the focal point of activity in this area. The papers presented fall into the following categories: Applications of Coding Theory; Diagnosis—Practice-Oriented; Fault-Tolerant Software and Systems; Diagnosis—Theoretically Oriented; Logic Design; and Mathematical Models.
Price—$15.00 Member Price—$12.50
Price—$10.00 Member Price—$6.00

The digest of papers presented at the Ninth Annual Design Automation Workshop under joint sponsorship of the ACM and the IEEE on June 26-28, 1972, Dallas, Texas. Topics include: Turnkey Systems; Packaging; Testing and Simulation; Mechanical Design Automation; Architecture; Design Automation Systems; Microprogramming; Interactive Graphics; General Design Automation.
Price—$12.50 Member Price—$10.00

A digest of the eight papers presented at this one-day in-depth symposium. Paper topics: Optical Computing by Holography; Pattern Recognition by Holography; Optical Memories; Real-Time Optical Processing Devices; Holographic Computing in Radar and Ultrasonics; Digital Computer and Optical/Processor Interactions; Introducing the Laser Computer of Today and the Atomic Computer of Tomorrow; and Digital Holographic Logic.
Price—$7.50 Member Price—$5.00

The papers represent recent advances in both the theory and applications areas of computer processing of pictorial information. The 40 papers provide a stimulating variety of theoretical and applied topics in two-dimensional digital signal processing, pictorial pattern recognition, two-dimensional filtering, texture measurement, image communication theory and image analysis with applications to radiographic, geophysical, biomedical, p h o t o r e c o n n a i s s a n c e , i m a g e c o m m u n i c a t i o n s a n d environmental problems. Many illustrations.
Price—$17.50 Member Price—$12.50

The Computer Society's fifth annual conference focuses on subjects related to the development and use of quantitative methods for designing and evaluating computer systems and their components, be they hardware, software or firmware, or combinations thereof. Some of these topics the 96 presented papers cover are: Billing for Time-Sharing; External Signal Processing (FFT); Cellular Logic; Computers in Transportation Systems; Computer-Aided Design of Computers; Fault Diagnosis; Microprogramming Techniques; Teleprocessing; Microprogrammed Peripheral Controllers; Memory Mapping Techniques; System Measurement Techniques; Minicomputer Applications; Centralized vs. De-Centralized Files; Computer Networks in Military and Civil; and Fundamental Limits of Computing.
Price—$20.00 Member Price—$12.00

The Computer Society's fourth annual conference emphasizes the engineering and design aspects of memories and peripherals with papers covering new contributions, state-of-the-art, projections, evaluations, applications and surveys of the field. Session topics include: Tomorrow's Technology and Markets; Packaging for Electronic Systems; Computing Power in Terminals; New Memory Devices; High Risk Money for New Computer Companies; How, When and Where; Main Frame Memory Technology: A Debate; Terminals for News Processing and Editing; Special Purpose Terminals and Peripherals; Low Cost Tele displays; Software and Terminals; and many others.
Price—$8.00 Member Price—$6.00

The Computer Society's third annual conference explores the world of real time systems. Sessions topics include: Computer Data Communications; Computer System Models and Analysis; Process Control and Digital Filtering; Time Sharing Systems, Large and Small; Real Time Systems for the Management of Acutely Ill Patients; On Line Computer Systems in Hospital Data Management; Real Time Operating Systems and Languages; New Developments in Software and Systems; and Biomedical Computing.
Price—$7.50 Member Price—$5.00
This digest is available in microfiche only.

The Computer Society's second annual conference examines in depth the impact that LSI electronics will have upon the information processing profession. Areas covered include: Questions We Should Ask; The Changing User-Supplier Interface; Semiconductor Memory for Computer Systems — What We Can Expect; The Impact of LSI on Computer Organization; Impact on the Profession and the Professionals and Engineering and Business Perspectives.
Price—$7.00 Member Price—$5.00

The Computer Society's first annual conference explores in depth the areas of reliability; design automation; pattern recognition; and new computer elements and system organizations. Session topics include: Reliability; Computer Systems Design Automation (a tutorial); The Role of Electrical Engineers in Computer Science; Computer-Aided Circuit and Device Design; Computer Memories; Pattern Recognition; Computer Science in Electrical Engineering Curricula; New Computer Elements; and System and Logic Design Automation.
Price—$7.00 Member Price—$5.00

12th Annual Symposium on Switching and Automata Theory Conference Record, October 1971 — 218 p.
Papers were selected for the symposium on the basis of their originality and relevance to the problems of current interest (some represent preliminary reports of continuing research) in switching and automata theory. Just a few of the topics covered are: high level languages of maximum power; design of easily testable sequential machines; decreasing computing t i m e f o r m o d u l a r arithmetic;

Those individuals engaged in computer communication systems design, analysis, and research, participated in this symposium. The sessions cover such topics as ANSI standards, systems aspects, software, modeling, and networks.

Price $15.00  Member Price $7.50


This one day symposium covered:
Memory Cells and Technology; Memory Module Organizations; Overall Memory Module Considerations; and Logic From Memory. The symposium was organized to try and find solutions to LSI problem areas such as establishment of a design technology; packaging and power dissipation; high volume production of many parts; establishment of system reliability; test requirements and standards; and establishment of real memory component and system costs.

Price $5.00  Member Price $4.00


This seminar investigates computer interface aspects, computer and test systems, computers in process control and a variety of other topics. Paper topics include: Computer-Instrument Systems - Are We Interface Limited?; Interfacing Instrumentation to Timeshared Computers; Common Computer Interfaces; Applications of a New "Mini-Automator" Interface to Computerized Testing; Computer-Aided Pollution Abatement; Hardware/Software Characteristics of a Computer Controlled Test System; and Application of Digital Computers to Process Control.

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Microfiche and a limited number of hard copies are available for the following:

Feature Extraction and Selection in Pattern Recognition Symposium Proceedings, October 1970 - 258 p., Price $10.00  Member Price $5.00
Digest of the Second Conference on Applications of Simulation, December 2-4, 1968, New York - 368 p., Price $7.00  Member Price $5.25
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1970 SCSC (Summer Computer Simulation Conference), June 10-12, 1970, Denver, Colo. - 734 p., Price $10.00  Member Price $7.50

Programming and Machine Organization Symposium Proceedings, April 1971 - 85 p., Price $7.50  Member Price $5.00
Second Biennial Cornell Electrical Engineering Conference - 1969 Topic - Computerized Electronics, August 1969 - 411 p., Price $15.00  Member Price $10.00
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