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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

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The Computer Society's second annual conference emphasized 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


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 time for modular arithmetic; two-dimensional formal languages; and pattern recognition by cellular automata; priority paging algorithms and the extension problem; time bounds on space computations; economy of description by automata; grammars and formal systems; and computing the maximum and the median.

Price—$15.00 Member Price—$7.50


Those individuals engaged in computer communication system 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—$10.00


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; testing requirements and standards; and establishment of real memory component and system costs.

Price—$5.00 Member Price—$4.00


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 time for modular arithmetic; two-dimensional formal languages; and pattern recognition by cellular automata; priority paging algorithms and the extension problem; time bounds on space computations; economy of description by automata; grammars and formal systems; and computing the maximum and the median.

Price—$15.00 Member Price—$7.50


The extent and effectiveness of the interplay that exists between computer designers and users during the development of a new computing system is the basis for
the papers presented at this symposium. Several papers include preliminary reports of on-going work. Topics include: Meta-Compiler Use in Machine Design; Instruction Deferral Sequencing Mechanism; Interrupt and Attention Handling in High Level Programming Languages; Programming Language Directed Machine Design – Problems and Prospects; A Computing Machine Based on Tree Structures; and The Programmer as a Computer Designer.

Price—$7.50 Member Price—$5.00


Papers on work accomplished and largely unreported during the last three to four years by research workers in every major effort were invited for this state-of-the-art symposium. Session topics include: test generation and diagnosis; fault-location and testing; diagnosis and testing; reliability modeling and analysis; architecture and design; error protection and recovery; and software reliability.

Price—$10.00 Member Price—$6.00


This seminar investigates computer interface aspects, computers 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.

Price—$7.50 Member Price—$5.00


The symposium provided a forum for those interested in pattern recognition to present their results, explore new developments in depth, and discuss the directions of further work. The 29 full papers are included in the following sessions: Theoretical Aspects; High Energy Physics Applications; Digital Processing and Analysis of Biomedical Images; Optical Character Recognition; Picture and Image Processing; and Speech Signal. Thirty-four short papers were covered in three additional sessions.

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The 29 symposium papers survey different batch fabrication technologies and processes but are primarily concerned with the effect that these techniques and devices will have on logic and memory implementations, machine organization, system design and programming, engineering and education, and some broader social aspects of the computer field.

Price—$11.00 Member Price—$8.50


This report, edited by Willis H. Ware, presents a factual account of the trip of the 1959 U.S. technical delegation in computers to the Soviet Union. The report is divided into the following major sections: History of the Delegation; Itinerary; Organizations; Specific Machines; Other Machines; General Development of Machines; Applications; Circuits and Components; Major Machine Components; Education; and Chinese Developments.

Price—$6.00 Member Price—$5.00


The papers spotlight developments in the use of computers in the design process and as elements of feedback control systems. Some paper titles are: Digital Computers in Automatic Control; Conditioning Stable Control System; Differential Analyzer Aids; Design of Electric Utility Automatic Dispatching System; Reduction of Control Loop Errors with a Prediction Computer; Airborne Program Computer; Dual-Mode Servomechanism Utilizing Saturation Switching; Synthesis of the Characteristics of a Nonlinear Velocity Feedback in Positional Servosystems; and Rate Limiting in Incremental Computers.

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