TRANSACTIONS ON SOFTWARE ENGINEERING, hardbound copies of Vol. 1, 1975

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Price - $24.95 Member Price - $19.95

Topics: programming languages, programing methodology, minicomputer systems and architecture, reliability and diagnosis, scheduling and memory management, sequencing and allocation problems, data bases, artificial intelligence, meta-program, and program testing.

Price - $20.00 Member Price - $15.00

The sixth in a series of annual meetings, the 1975 symposium focused on memory testing with the added dimension of memory reliability, devoted a full day to the subject of microprocessors, presented new information on test techniques and test equipment, and included a presentation on linear operational amplifier testing using automatic equipment.

Price: $16.00 Member Price: $12.00

Formerly called the Annual Symposium on Switching and Automata Theory, this symposium featured sessions on analysis of algorithms, computational complexity, formal languages, mathematical theory of computation, switching and automata theory, theory of programming, compiling, and formal semantics.

Price: $20.00 Member Price: $15.00

Fourth Data Communications Symposium, October 7-9, 1975, 180 pp.
The theme of this symposium was “Network Structures in an Evolving Operational Environment.” The subjects covered were network topological design considerations, measurement and performance, communications software, network design considerations, security, computer communication standards, interface considerations, and legal and regulatory aspects.

Price: $20.00 Member Price: $15.00

“MICRO-8,” Papers presented at the Eighth Annual Workshop on Microprogramming, September 21-23, 1975
Includes sessions on microprogramming architecture, microprogram optimization, LSI microprogram sequencers, microprogrammed microprocessors, microprogram performance evaluation, emulation, and software, as well as one on the significance, benefits, and pitfalls of microprogramming.

Price: $12.00 Member Price: $8.00

Software engineering is an emerging field for managing growth and change in data processing and realtime control of physical processes. This conference, which sought to present actual experiences of real gains in productivity and quality, included sessions on concepts, tools, project control, experience and methodology.

Price: $8.00 Member Price: $6.00

“How to Make Computers Easier to Use,” Digest of Papers from Compcon 75 Fall, September 9-11, 1975
Intelligent terminals, displays, problem-oriented languages, idiot-proof systems—they all help to make the computer easier to use. Trading off the dollar and performance penalties of these devices and techniques is one of the most important tasks facing the computer system designer today. Sessions at this conference addressed this important theme in terms of systems, software, hardware, and combinations of these disciplines.

Price: $20.00 Member Price: $15.00

“Protection of Information in Computer Systems,” Tutorial from Compcon 75 Fall, September 9, 1975
The course covers the basic principles of information protection and explains the separation of addressing and protection, the capability system, the access-control list system, protecting various types of objects, and protected objects and subsystems.

Price: $12.00 Member Price: $9.00

“Structured Programming,” Tutorial from Compcon 75 Fall, September 8, 1975
This tutorial includes an introduction to the major ideas of structured programming, their theoretical and practical foundations, as well as detailed presentations of a major application program system and a single program stressing the top-down evolutionary character of the process.

Price: $12.00 Member Price: $9.00

Papers presented in this symposium cover the areas of new CHDLs, compilation and simulation driven by CHDLs, CHDLs at design automation, and applications of CHDLs, as well as structured description of digital systems. In addition there are tutorial sessions dealing with analysis and synthesis of a system and a session presenting recent results and new concepts which are not yet fully developed.

Price: $16.00 Member Price: $12.00

Papers cover a broad range of design automation topics including testing, simulation, physical design, software design automation, design automation systems design, and architectural design automation.

Price: $20.00 Member Price: $12.00

Topics include diagnosis of digital circuits and systems, reliability modeling and analysis, design and implementation of fault-tolerant systems, reliable software, probabilistic analysis of test methods, and fault-tolerant sequential circuits and machines.

Price: $20.00 Member Price: $15.00

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Held at the Purdue Laboratory for Applications of Remote Sensing, this symposium brought together engineers and researchers to present new results in the theory, technology, and application of computer processing of remotely sensed data. Over 60 papers cover such topics as analysis algorithms, clustering and feature selection, forest and agricultural applications, water resources, image processing, and land use and geological applications.

Price—$25.00  Member Price—$18.75

Microprogramming, a Tutorial on the Queen Mary, May 17, 1975—309 pp.

Tutorial text includes an introduction by the instructors, J. Michael Galey of IBM and Richard L. Kleir of Browne & Ramamoorthy, Inc., and 19 papers on microprogramming in six general categories: introductory papers, microprogrammed architecture and languages, production of microprograms, emulation and direct execution, microprogram applications other than instruction execution, and conclusions and perspectives.

Price—$12.00  Member Price: $9.00
Hardbound price: non-members, $16.00; members, $13.00


This conference gathered together people in artificial intelligence, computer graphics, and pattern recognition to discuss an approach to flexible and intelligent human interface to pattern and pictorial data. Topics include user-oriented graphics, pictorial pattern recognition, industrial applications and advanced automation, remote sensing and image processing, texture recognition and synthesis, high level languages and pattern analysis, speech understanding and sound analysis, and data definition and conversion.

Price—$25.00  Member Price—$15.00
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Topics include memory devices, circuit implementations, design philosophy, logical and algebraic aspects, hardware and software logic, applications of logic, feasibility studies, and human factors in man-computer systems.

Price—$20.00  Member Price—$15.00


Returning to the United States this year, the conference emphasized optical computing systems and the joint role of optical and digital processing. Papers focus especially on optical memories, archival storage, information retrieval, coded aperture techniques, optical computing systems, holographic imaging from optical, microwave, and acoustic sources, holographic interferometry and speckle, and information processing.

Price—$16.00  Member Price—$12.00
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1975 International Conference on Reliable Software, April 21-23, 1975

Over 70 papers dealing with all aspects of reliable software were presented at this conference. Topics range from practical experiences in large-scale software development, to new tools for software testing and analysis, to theoretical foundations of programming and program correctness. Includes papers on systematic program testing, program construction tools and techniques, software reliability estimation techniques, software error data collection and analysis, impact of reliability on software quality and costs, and fault-tolerant software.

Price—$25.00  Member Price—$18.75

8th Annual Simulation Symposium, March 12-14, 1975

The conference provided a forum for the interchange of ideas, techniques and applications in the field of simulation. Although the main emphasis of the papers is digital discrete simulation, also included are papers describing other simulation techniques such as continuous or analog.

Price—$20.00  Member Price—$15.00


Three full days of parallel sessions on software, hardware, and applications explored the ever-increasing influence of normal, ordinary people on the design and applications of computers. Software sessions included software and reliability, the human interface, and grass roots power to the people. Hardware sessions topics include computer games, the anatomy of a computer, and microprocessor design. Applications cover banking, health care, education, retailing, and transportation.

Price—$20.00  Member Price—$15.00


This conference, cosponsored by the IEEE Computer Society and ACM SIGARCH, explored novel and recent developments in computer architecture. Papers cover such topics as the architecture of computer networks, microprogram and control optimization, processors for high-level languages, and computer architecture education.

Price—$20.00  Member Price—$15.00

Reprints of the following articles from past issues of Computer Magazine are available from the Computer Society Publications Office. Price: $1.50 each copy ($1.50 minimum charge) including postage and handling. All orders must be prepaid. Bulk quantities (100 or more) of any article from past issues of Computer are also available. Prices will be sent on request.

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