Now available . . .


This conference was jointly sponsored by the National Research Council, the National Institutes of Health, the IEEE Computer Society, and three European medical organizations. Working independently or in groups, some 475 authors delivered papers that are presented in these proceedings. Among the subjects covered are arrhythmia monitoring, electrocardiography, echocardiography, left ventricular performance and wall motion, and nuclear cardiology.
Nonmembers—$26.00 Members—$27.00

Recent publications . . .


Prepared by the Education Committee of the IEEE Computer Society, this is the first draft of curriculum recommendations for community-college career programs for computer technicians. The intent is to suggest starting points for overall goals, curriculum content, and implementation guidelines, and to solicit additional input from a broader range of the community. The report includes sections on purpose and objectives, content (software-oriented, hardware-oriented, and hardware-software integrated), resources, faculty, students, and industrial liaison.
Nonmembers—$6.00 Members—$4.50


Held in Austin, Texas, this symposium included sessions on high-level languages, integrated systems, interconnection networks, design approaches, fault-tolerant computing, database systems, distributed processing, and data-flow and applicable language architectures. These proceedings contain all 35 papers delivered at the symposium.
Nonmembers—$28.00 Members—$21.00


The SSST, created to promote stronger contacts between the electrical-engineering and systems faculties of Southeast-US universities, returned to its campus of origin with this meeting. Session topics included parallel processing/interconnection networks, biosystems, control systems, power systems, network design and analysis, robotics, computer design, microprocessor applications, applied optics, image processing/pattern recognition, signal processing architectures, applied communications, system analysis and identification, and fault-tolerant systems.
Nonmembers—$25.00 Members—$18.75


Ample illustrated in full color, this second edition has a new section devoted entirely to raster graphics. Other additions include a new bibliography, a guide to sources about computer graphics, and a number of new articles covering interactive graphics, visible surface algorithms, and computer animation. The sections on graphics hardware, software, and applications remain, so this tutorial serves as a comprehensive introductory course to the field.
Nonmembers—$36.00 Members—$25.00


Cosponsored by the Computer Society, this conference was designed to help physicians, medical physicists, and manufacturers plan medical imaging departments. PACS has a number of areas of application including diagnostic radiology, radiation therapy, and clinical pathology. The 74 articles in the proceedings cover picture archiving devices, picture communication, PACS architectures, teleradiology, digital image acquisition, prototype systems, hard and soft pictures, and the standardization, needs, and implications of PACS.
Nonmembers—$28.00 Members—$21.00


Over 75 papers comprise these proceedings of the twenty-fourth IEEE Computer Society International Conference, held in San Francisco, California, and entitled "High Technology in the Information Industry." Four tracks of highest interest are explored, including several facets of the VLSI phenomenon, computer networking, a broad spectrum of software issues, and applications and miscellaneous topics.
Nonmembers—$30.00 Members—$22.50


This tutorial, which effectively contains all new material compared to the 1980 edition, is intended to answer questions regarding technologies needed to design and use custom and semicustom VLSI arrays. Seventy-two articles fall into five major categories: Industry Trends in Semicustom and Full-custom VLSI, Silicon Technology Trends, Custom VLSI Design Technology Trends, Custom VLSI Testing Technology Trends, and Packaging Technology Trends.
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