
Through coordinated tutorial reviews, this volume provides an overview of the techniques and limitations of present pattern recognition methodology as well as an examination of certain artificial intelligence approaches (especially in the area of “expert systems”). It also covers examples of satisfactory combinations of techniques from the above two areas and indicates how the AI field might benefit from better use of some specific pattern recognition techniques.
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Held in New Orleans, Louisiana, and sponsored by the ACM, IEEE, and IMS, this conference presented 100 papers from some 31 authors. Combined, the papers present the latest developments in the field of computer systems, and hardware and software reliability.
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Centered around the theme “Data Processing—Data Communication: The Illusory Boundary,” this conference explored the increasing synergism between the two fields.
Sessions covered topics such as communication system design and performance, communication protocol concepts, emerging applications of computer networking, practical results in network and multinet network design, the impact of new communication technology on computer systems, and hardware and software reliability.
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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.
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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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Held at the University of Delaware, Newark, Delaware, and sponsored by the IEEE Computer Society’s Delaware Bay Section, this conference, the fifth in the series, covered such topics as the man-machine interface, software development, signal processing, algorithms, microprocessor applications, and network systems. Twenty-four authors provided the 19 papers in these proceedings.
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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.
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