Now available . . .


In this workshop, the emphasis was on attempting to define the special problems associated with accomplishing computer vision and on gaining a more thorough knowledge of the relevant variables and their relationships. The issues explored included the representation and control of knowledge and pictorial information, picture databases, motion, matching, and the extraction of intrinsic characteristics. Nonmembers—$30.00 Members—$15.00


The increasing use of computers in medical applications is revolutionizing all aspects of medicine—analysis and diagnostics, education, and research. The transdisciplinary, transnational Medcomp 82 proceedings examine topics which include image and signal processing and analysis; information systems and large databases in medicine and the life sciences; microcomputers, networks, and their impact; algorithmic diagnosis, decision-making, and decision support; system performance evaluation and technology assessment; modeling and simulation; and education for information processing in medicine and health care. Nonmembers—$54.00 Members—$27.00


Phenomenal growth in computer communications prompted this annual conference to again consider one of its most stimulating themes—computer networks—with particular emphasis on practical and user considerations. Distributed systems, device technology, and communications architecture; large-scale, local area, radio, and cable-based networks, applied network management, and network modeling; performance and reliability; teleconferencing and international services, fiber optic technology applications, and more are included in the proceedings. Nonmembers—$54.00 Members—$27.00


 Held for the first time in Asia, in Tokyo, Japan, the sixth ICSE focused on environments for the production of high-quality, user-friendly software. Perspectives in software engineering provided at the conference fall into such categories as quantitative aspects, requirements techniques, programming environments, configuration management, language processing, specification techniques, interactive and knowledge-based systems, and technology transfer. Nonmembers—$36.00 Members—$27.00


Sponsored by the Technical Committee on Security and Privacy of the IEEE-CS, the conference addressed five major topics of interest to the active research community in the fields of security and privacy protection: security models; systems and systems analysis; privacy, progress, and reality; secure networks and communications; and cryptography. Nonmembers—$24.00 Members—$12.00

Recent publications . . .


The proceedings of the eleventh conference on parallel processing include 67 papers on such subjects as interconnection networks, numeric and nonnumeric algorithms, network diagnosis and fault tolerance, data flow and reduction machines, and languages. Also covered are large-scale scientific, MIMD, and distributed processing, special-purpose and array processors, and multi-microprocessors. Nonmembers—$42.00 Members—$21.00


Sponsored by the IEEE Computer Society in cooperation with the ACM and the University of Pittsburgh, the symposium focused on reliability problems in distributed computing systems. Session topics included error confinement, optimistic concurrency control, nested multilevel transactions, network partitioning and cooperating systems architecture, analysis of availability performance issues, fault tolerance in distributed systems and software, and current experimental systems. Nonmembers—$30.00 Members—$15.00


Sponsored by the Computer Society's Fault-Tolerant Technical Committee in cooperation with the IFIP Working Group 10.4 and the UCLA Computer Science Department, FTCS-12 accepted for presentation the 51 papers in these proceedings. Architecture, reliable software, software networks, operating systems, design for testability, fault modeling, reliability modeling and evaluation, and diagnosis and recovery are among the topics addressed. Nonmembers—$45.00 Members—$22.50


This year's conference, traditionally a forum for research advances in theory and applications of pattern recognition, featured dual sessions on robotics and computer vision, time-varying imagery, medical image analysis and graphics, special-purpose hardware, 3-D object representation, scene analysis, and clustering, statistical, and structural pattern recognition. Other session topics included image database development and management, encoding and impression, and texture analysis and synthesis. Nonmembers—$40.00 Members—$30.00

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