
This tutorial discusses the theory available for decentralized control and indicates how that theory can be applied to distributed computing systems. The main body of the material requires a background in calculus, linear algebra, and differential equations only; reprints of more advanced papers are included for those readers who wish to pursue further distributed control topics.

Nonmembers—$36.00 Members—$18.00


Initially presented at Compucol 82, this tutorial discusses trends and techniques that enable nonexpert end users to interact easily with computerized systems and use them to increase productivity. Topics include source data capture, speech I/O, information systems, document composition, office automation, and database management.

Nonmembers—$28.00 Members—$21.00


The Sixth Annual International Computer Software and Applications Conference focused on telecommunications software, database design, robotics, systems applications, and software engineering, performance, and quality. Eighty-two papers and 10 panel sessions are included in the proceedings.

Nonmembers—$44.00 Members—$27.00


Sponsored by the IEEE Computer Society TC on Computing and the Handicapped in cooperation with ACM-Sigcaph, the workshop explored how computers and computing can improve the quality of life and employability of handicapped persons. Session topics include communications, software, interfaces, and systems for sight and hearing impaired users.

Nonmembers—$24.00 Members—$12.00


The 46 papers in the proceedings of this conference, sponsored by the IEEE-CS Technical Committee on Mathematical Foundations of Computing, discuss aspects of theoretical computer science. Many of the papers represent preliminary reports on continuing research.

Nonmembers—$45.00 Members—$22.50

439: Proceedings—Sixth Annual Symposium on Computer Applications in Medical Care, October 30-November 2, 1982—1078 pp.

The symposium annually informs physicians, health care professionals, biomedical scientists, engineers, and information technology specialists about current and potential applications of computer and communication technologies to health care. Three overlapping themes provided this year’s session topics: the use and evaluation of information systems in patient care, microcomputer applications, and scientific and research medical care applications.

Nonmembers—$75.00 Members—$45.00


Recent technological advances in biomedical imaging and signal acquisition, together with recent innovations in computer architecture and display systems, are opening new vistas in computer-automated and computer-assisted pattern analysis. The proceedings cover all aspects of biomedical image, signal, and pattern analysis and computer graphics.

Nonmembers—$60.00 Members—$30.00


All major aspects of pattern recognition are covered in these proceedings, including statistical, structural, and syntactic methods for classification of patterns, determining symbolic descriptions of patterns, implementations, and applications (character and speed recognitions, industrial and medical applications, remote sensing, and other fields).

Nonmembers—$70.00 Members—$48.00


The expanding, maturing nature of distributed computing systems is the theme of these proceedings. Not only are the traditional subject areas broached—distributed operating systems, network topologies, and distributed databases, for example—but advances in fault tolerance, distributed testbeds, concurrency mechanism evaluation, and practices and experiences for distributed system development are also covered, providing a balance between theoretical, practical, and applied techniques.

Nonmembers—$66.00 Members—$33.00


The 21 papers presented here address topics such as models for university/industry cooperation, CAD/CAM and VLSI, the transition of CAD from universities to industry, design automation tools, education and curriculum, and CAD implementations.

Nonmembers—$24.00 Members—$12.00