
The focus at this San Francisco workshop was on the need for standards and standardization in software engineering. The 22 presentations included in this volume approach the problem with a variety of potential solutions, from quantitative methods to style guides and standard tools, and even include a proposal to impose standards on those who set the standards.

Non-members—$16.00 Members—$12.00


This tutorial presents current material on what data-base management will be like in the 80’s. For example, traditional navigational styles of data-manipulation commands—i.e., single-record-at-a-time—will be replaced by multiple-record-at-a-time, high-level styles. The 40 papers reprinted in this volume fall into such categories as tools for data-base access, data-base design, and hardware aids. Each of the topics includes an informative overview.

Non-members—$25.00 Members—$18.75


This conference, jointly sponsored by the IEEE Computer Society, the IEEE Acoustics, Speech, and Signal Processing Society, the IEEE Pattern Recognition Society, and the IEEE Geoscience and Remote Sensing Society, produced the 24 papers contained in this volume. The topics include migration and geophysical inverse techniques, pattern recognition, power spectrum analysis, multiple sensor data analysis, and digital filtering.

Non-members—$16.00 Members—$12.00


This tutorial examines the major advances since 1976 in the application of cryptography to data security. Divided into two principal themes—ciphers and the application of the "Data Encryption Standard" to computer communication, and public key cryptosystems and their application—this collection of 24 papers is preceded by an introduction providing an overview of individual, corporate, and national data-security concerns.

Non-members—$20.00 Members—$15.00


Jointly sponsored by the IEEE Computer Society, the ACM, and the University of Pittsburgh, this conference focused on the continuity of operations in real-time systems. The 30 papers presented in these proceedings cover a variety of topics including concurrency control, language constructs, system performance, synchronization models, and research issues.

Non-members—$20.00 Members—$15.00


Over 35 papers by international authors, including six invited papers, are presented in these proceedings of the symposium cosponsored by the IEEE Computer Society and ACM. General topic divisions include performance analysis, VLSI applications, parallel processing, data flow machines, interconnection, and data-base management.

Non-members—$28.00 Members—$21.00


Forty reprints in this tutorial lead up to an entirely new section on example LCN products. Thirty-eight of these papers are divided into sections by LCN type in both distributed processing and system enhancement contexts. Additionally, the text includes two introductory papers and an editorial overview for each of the sections.

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