
These proceedings include the transcripts of two panel discussions, one devoted to cryptography, the other to kernel performance issues, as well as 18 papers addressing such topics as data encryption, data-base security, operating systems security, and privacy protection. The symposium, which met in Oakland, was sponsored by the Technical Committee on Security and Privacy of the IEEE Computer Society.

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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.

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Jointly sponsored by the IEEE Computer Society, the ACM, and the University of Pittsburgh, this symposium 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.

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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 use the standard.

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This symposium, 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.

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Held in Cannes, France, this conference heard presentations from over 75 participants on such topics as data modeling, concurrency control, data compression, and data dictionaries and security. More than 50 papers on these and other subjects of current interest are included in these proceedings.

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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 articles 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.

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