Handling Priority Inversion in Time-Constrained Distributed Databases

Part of the Advances in Data Mining and Database Management Book Series

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Description:

In the computer science industry, high levels of performance remain the focal point in software engineering. This quest has made current systems exceedingly complex, as practitioners strive to discover novel approaches to increase the capabilities of modern computer structures. A prevalent area of research in recent years is scalable transaction processing and its usage in large databases and cloud computing. Despite its popularity, there remains a need for significant research in the understanding of scalability and its performance within distributed databases.

Handling Priority Inversion in Time-Constrained Distributed Databases provides emerging research exploring the theoretical and practical aspects of database transaction processing frameworks and improving their performance using modern technologies and algorithms. Featuring coverage on a broad range of topics such as consistency mechanisms, real-time systems, and replica management, this book is ideally designed for IT professionals, computing specialists, developers, researchers, data engineers, executives, academics, and students seeking research on current trends and developments in distributed computing and databases.
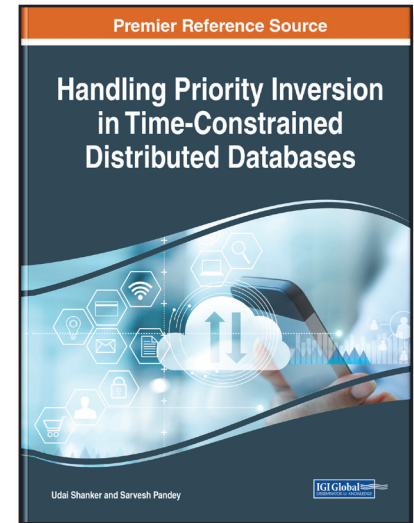
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Hardcover: **$225.00**   **Softcover:** **$170.00**   **E-Book:** **$225.00**   **Hardcover + E-Book:** **$270.00**

Topics Covered:

- Active Databases
- CAP Theorem
- Cloud Computing
- Consistency Mechanisms
- Data Management
- Information Systems
- Real-Time Systems
- Replica Management
- Scalable Algorithms
- Transaction Coordination
- Triggered Transactions

Subject: Media and Communications

Classification: Edited Reference

Readership Level: Advanced-Academic Level (Research Recommended)

Research Suitable for: Advanced Undergraduate Students; Graduate Students; Researchers; Academicians; Professionals; Practitioners