

1. Record Nr.	UNISA996465273503316
Titolo	Future Directions in Distributed Computing [[electronic resource] ] : Research and Position Papers // edited by André Schiper, Alex A. Shvartsman, Hakim Weatherspoon, Ben Y. Zhao
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2003
ISBN	3-540-37795-6
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Descrizione fisica	1 online resource (X, 226 p.)
Collana	Lecture Notes in Computer Science, , 0302-9743 ; ; 2584
Disciplina	004/.36
Soggetti	Architecture, Computer Computer communication systems Computer science Computer programming Software engineering Operating systems (Computers) Computer System Implementation Computer Communication Networks Computer Science, general Programming Techniques Software Engineering Operating Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Proceedings of the 2002 International Workshop on Future Directions in Distributed Computing.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Practical Impact of Group Communication Theory -- On the Impact of Academic Distributed Systems Research on Industrial Practice -- Using Error-Correcting Codes to Solve Distributed Agreement Problems: A Future Direction in Distributed Computing? -- Lower Bounds for Asynchronous Consensus -- Designing Algorithms for Dependent Process Failures -- Comparing the Atomic Commitment and Consensus Problems -- Open Questions on Consensus Performance in Well-Behaved Runs -- Challenges in Evaluating Distributed Algorithms -- Towards Robust Optimistic Approaches -- Towards a Practical

Approach to Confidential Byzantine Fault Tolerance -- Modeling Complexity in Secure Distributed Computing -- Communication and Data Sharing for Dynamic Distributed Systems -- Dissecting Distributed Computations -- Ordering vs Timeliness: Two Facets of Consistency? -- WAIF: Web of Asynchronous Information Filters -- The Importance of Aggregation -- Dynamic Lookup Networks -- The Surprising Power of Epidemic Communication -- Topology-Aware Routing in Structured Peer-to-Peer Overlay Networks -- Uncertainty and Predictability: Can They Be Reconciled? -- Fuzzy Group Membership -- Toward Self-Organizing, Self-Repairing and Resilient Distributed Systems -- Dynamically Provisioning Distributed Systems to Meet Target Levels of Performance, Availability, and Data Quality -- Database Replication Based on Group Communication: Implementation Issues -- The Evolution of Publish/Subscribe Communication Systems -- Naming and Integrity: Self-Verifying Data in Peer-to-Peer Systems -- Spread Spectrum Storage with Mnemosyne -- Replication Strategies for Highly Available Peer-to-Peer Storage -- A Data-Centric Approach for Scalable State Machine Replication -- Scaling Optimistic Replication -- Building a Bridge between Distributed Systems Theory and Commercial Practice -- Holistic Operations in Large-Scale Sensor Network Systems: A Probabilistic Peer-to-Peer Approach -- Challenges in Making Pervasive Systems Dependable -- Towards Dependable Networks of Mobile Arbitrary Devices - Diagnosis and Scalability -- Technology Challenges for the Global Real-Time Enterprise -- Middleware for Supporting Inter-organizational Interactions -- Hosting of Libre Software Projects: A Distributed Peer-to-Peer Approach -- System Support for Pervasive Applications -- Technology Challenges for the Global Real-Time Enterprise -- Middleware for Supporting Inter-organizational Interactions -- Hosting of Libre Software Projects: A Distributed Peer-to-Peer Approach -- System Support for Pervasive Applications.

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## Sommario/riassunto

This book presents a collection of 31 revised reviewed papers developed from contributions presented at the International Workshop on Future Directions in Distributed Computing, held in Bertinoro, Italy in June 2002. Also included are 7 particularly commissioned invited papers to round the coverage of relevant topics and four section surveys. The papers are organized in topical sections on foundations of distributed systems, exploring next-generation communication infrastructures and applications, challenges in distributed information and data management, and challenges and opportunities in applications of distributed computing technologies. All in all, the book is a unique account and proposed agenda of issues to be addressed in future research in distributed computing.

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2. Record Nr.	UNISOBSOBE00082957
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Lingua di pubblicazione	Spagnolo
Formato	Materiale a stampa
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