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Nota di contenuto	Contents ; 1 An OMIS-based Approach to Monitoring Distributed Java Applications ; 1.1 Introduction ; 1.2 Related Work ; 1.3 Building of a Monitoring system ; 1.4 A Way from OMIS to J-OMIS ; 1.5 Architecture of Java-Oriented Monitoring System ; 1.6 The J-OCM as Middleware 1.6.1 Interface Definition 1.6.2 Stub and Skeleton ; 1.6.3 Object Manager and Registration/Naming Service ; 1.6.4 Transport Layer ; 1.7 Event Handling in the J-OCM ; 1.7.1 Java-Oriented Techniques for Event-Based Monitoring ; 1.7.2 The OMIS Event Model ; 1.7.3 Event Processing 1.7.4 Event-Based Interaction in Low-Level Components 1.8 Monitoring RMI Calls ; 1.8.1 Existing Techniques of RMI Monitoring ; 1.8.2 An Approach to Monitoring RMI calls ; 1.8.3 Architecture of J-OCM/RMI ; 1.9 Conclusions

; 1.10 Bibliography

2 Scalable and Self - Optimizing Data Grids

2.1 Motivation and Overview ; 2.2 P2P Systems as
Components for Scalable Grids ; 2.3
A Scalable Data Grid with P2P Components

; 2.4 Availability Component ; 2.4.1 Basic
Equations and Model Parameters ; 2.4.2
Analytical Model

2.4.3 Applying the Model 2.5 Synchronization
Component ; 2.6 Self-Management Components
; 2.7 Putting it All Together ; 2.8 Related Work
; 2.9 Conclusion ; 2.10 Bibliography ; 3 The
Immediate Dependency Relation: An Optimal Way to Ensure Causal
Group Communication

; 3.1 Introduction
3.1.1 Background

Sommario/riassunto

This volume presents original articles, reviewing various aspects of scalable computing. Parallel computation with optically interconnected systems makes its first appearance, and further work on distributed Java is also reported. Optimizing data grids and group communication are studied in two analytical chapters. The comprehensive treatment of these topics adds further to the current literature.
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