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Nota di contenuto	About the Editors xiii -- List of Contributors xvii -- 1 Introduction 1 / Mohammad S. Obaidat and Sudip Misra -- 1.1 Major Features of the Book 4 -- 1.2 Target Audience 4 -- 1.3 Supplementary Resources 5 -- 1.4 Acknowledgements 5 -- 2 Fundamentals and Issues with Cooperation in Networking 7 / Mohammad S. Obaidat and Tarik Guelzim -- 2.1 Introduction 7 -- 2.2 Fundamentals of Cooperating

CMP Cooperative Caching Framework 226 -- 13.3.1 CMP Cooperative Caching Framework 227 -- 13.3.2 CC Mechanisms 229 -- 13.3.3 CC Implementations 234 -- 13.3.4 CC for Large Scale CMPs 241 -- 13.3.5 Distributed Cooperative Caching 243 -- 13.3.6 Summary 249. 13.4 CMP Cooperative Caching Applications 251 -- 13.4.1 CMP Cooperative Caching for Latency Reduction 252 -- 13.4.2 CMP Cooperative Caching for Adaptive Repartitioning 259 -- 13.4.3 CMP Cooperative Caching for Performance Isolation 262 -- 13.5 Summary 269 -- References 270 -- 14 Market-Oriented Resource Management and Scheduling: A Taxonomy and Survey 277 / Saurabh Kumar Garg and Rajkumar Buyya -- 14.1 Introduction 277 -- 14.2 Overview of Utility Grids and Preliminaries 277 -- 14.3 Requirements 279 -- 14.3.1 Consumer Side Requirements 279 -- 14.3.2 Resource Provider Side Requirements 280 -- 14.3.3 Market Exchange Requirements 280 -- 14.4 Utility Grid Infrastructural Components 282 -- 14.5 Taxonomy of Market-Oriented Scheduling 283 -- 14.5.1 Market Model 284 -- 14.5.2 Allocation Decision 288 -- 14.5.3 Participant Focus 288 -- 14.5.4 Application Type 288 -- 14.5.5 Allocation Objective 289 -- 14.6 Survey of Grid Resource Management Systems 289 -- 14.6.1 Survey of Market-Oriented Systems 289 -- 14.6.2 System-Oriented Schedulers 296 -- 14.7 Discussion and Gap Analysis 300 -- 14.7.1 Scheduling Mechanisms 300 -- 14.7.2 Market Based Systems 301 -- 14.8 Summary 302 -- References 303 -- Glossary 307 -- Index 319.

Sommario/riassunto

This book focuses on the latest trends and research results in Cooperative Networking This book discusses the issues involved in cooperative networking, namely, bottleneck resource management, resource utilization, servers and content, security, and so on. In addition, the authors address instances of cooperation in nature which actively encourage the development of cooperation in telecommunication networks. Following an introduction to the fundamentals and issues surrounding cooperative networking, the book addresses models of cooperation, inspirations of successful cooperation from nature and society, cooperation in networking (for e. g. Peer-to-Peer, wireless ad-hoc and sensor, client-server, and autonomous vehicular networks), cooperation and ambient networking, cooperative caching, cooperative networking for streaming media content, optimal node-task allocation, heterogeneity issues in cooperative networking, cooperative search in networks, and security and privacy issues with cooperative networking. It contains contributions from high profile researchers and is edited by leading experts in this field. Key Features: * Focuses on higher layer networking * Addresses the latest trends and research results * Covers fundamental concepts, models, advanced topics and performance issues in cooperative networking * Contains contributions from leading experts in the field * Provides an insight into the future direction of cooperative networking * Includes an accompanying website containing PowerPoint slides and a glossary of terms (www.wiley.com/go/obaidat_cooperative) This book is an ideal reference for researchers and practitioners working in the field. It will also serve as an excellent textbook for graduate and senior undergraduate courses in computer science, computer engineering, electrical engineering, software engineering, and information engineering and science.