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| 1. Record Nr. | UNISALENTO991003209879707536 |
| Autore | Cavalli, Massimo |
| Titolo | Massimo Cavalli / [a cura di] Remo Beretta |
| Pubbl/distr/stampa | Milano : All'insegna del pesce d'oro, 1986 |
| Descrizione fisica | 125 p. : ill. ; 17 cm |
| Collana | Arte moderna italiana ; 98 |
| Altri autori (Persone) | Beretta, Remo |
| Disciplina | 759.5 |
| Soggetti | Cavalli, Massimo
Cavalli, Massimo |
| Lingua di pubblicazione | Italiano |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| ----- | |
| 2. Record Nr. | UNINA9911020216003321 |
| Autore | Tarkoma Sasu |
| Titolo | Mobile middleware : architecture, patterns and practice // Sasu Tarkoma |
| Pubbl/distr/stampa | Chichester, U.K., : Wiley Pub., 2009 |
| ISBN | 9786612138256
9781282138254
1282138251
9780470745526
0470745525
9780470745519
0470745517 |
| Descrizione fisica | xii, 319 p. : ill |
| Disciplina | 005.3 |
| Soggetti | Mobile computing
Middleware
Wireless communication systems |
| Lingua di pubblicazione | Inglese |

Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Title from title screen.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	<p>About the Authors -- List of Contributors -- Preface -- 1. Introduction -- 1.1 Mobile Middleware -- 1.2 Mobile Applications and Services -- 1.3 Middleware Services -- 1.4 Transparencies -- 1.5 Mobile Environment -- 1.6 Context-Awareness -- 1.7 Mobility -- 1.8 Example Use Case -- 1.9 Requirements for Mobile Computing -- 1.10 Mobile Platforms -- 1.11 Organization of the Book -- Bibliography -- 2. Architectures and Platforms -- 2.1 Overview -- 2.2 Networking -- 2.3 Naming and Addressing -- 2.4 Middleware and Platforms -- 2.5 Overview of Platforms -- 2.6 Mobile Platforms -- Bibliography -- 3. Support Technologies -- 3.1 Session Initiation Protocol (SIP) -- 3.2 IP Multimedia Subsystem (IMS) -- 3.3 Web Services -- 3.4 Other Technologies -- 3.5 Service Discovery -- 3.6 Mobility Solutions -- 3.7 Advanced Topics -- 3.8 Fuego: Example Middleware Platform -- Bibliography -- 4. Principles and Patterns -- 4.1 Definitions -- 4.2 Principles -- 4.3 Cross-layer design -- 4.4 Model Driven Architecture -- 4.5 Architectural Patterns -- 4.6 General Patterns -- 4.7 Patterns for Mobile Computing -- 4.8 Summary -- Bibliography -- 5. Interoperability and Standards -- 5.1 Interoperability -- 5.2 Standardization -- 5.3 Wireless Communications Standards -- 5.4 W3C Standards -- 5.5 IETF Standards -- 5.6 Emerging Internet Standards -- Bibliography -- 6. Mobile Messaging -- 6.1 Messaging Fundamentals -- 6.2 Messaging Architectures -- 6.3 Mobile and Wireless Communication -- 6.4 Security -- 6.5 Reliability -- 6.6 Java Message Service -- 6.7 CORBA and CORBA Messaging -- 6.8 XMPP -- 6.9 Web Services -- 6.10 The Web and REST -- Bibliography -- 7. Publish/Subscribe -- 7.1 Overview -- 7.2 Router Topologies -- 7.3 Interest Propagation -- 7.4 Routing Decision -- 7.5 Standards -- 7.6 Research Systems -- 7.7 Advanced Topics -- Bibliography -- 8. Data Synchronization -- 8.1 Synchronization Models -- 8.2 File Systems and Version Control -- 8.3 Synchronization in Middleware -- 8.4 Case Studies -- Bibliography.</p> <p>9. Security -- 9.1 Basic Principles -- 9.2 Cryptography -- 9.3 Public Key Infrastructure -- 9.4 Network Security -- 9.5 802.11X -- 9.6 AAA, RADIUS, Diameter -- 9.7 Transport-layer Security -- 9.8 Web Services Security -- 9.9 Security Tokens -- 9.10 SAML -- 9.11 XACML -- 9.12 Single Sign-On (SSO) -- 9.13 Generic Bootstrapping Architecture (GBA) -- 9.14 Trusted Platform Module -- 9.15 OpenID, OAuth, MicroID -- 9.16 Spam -- 9.17 Downloaded Code -- Bibliography -- 10. Application and Service Case Studies -- 10.1 Mobile Services -- 10.2 Mobile Server -- 10.3 Mobile Advertisement -- 10.4 Mobile Push Email -- 10.5 Mobile Video -- 10.6 Mobile Widgets and WidSets -- 10.7 Airline Services -- 10.8 Revisiting Mobile Patterns -- 10.9 Summary -- Bibliography -- 11. Conclusions -- Index.</p>
Sommario/riassunto	<p>This book offers a unified treatment of mobile middleware technology. Mobile Middleware: Architecture, Patterns and Practice provides a comprehensive overview of mobile middleware technology. The focus is on understanding the key design and architectural patterns, middleware layering, data presentation, specific technological solutions, and standardization. The author addresses current state of the art systems including Symbian, Java 2 Micro Edition, W3C technologies and many others, and features a chapter on widely deployed middleware systems. Additionally, the book includes a summary of relevant mobile middleware technologies, giving the reader</p>

an insight into middleware architecture design and well-known, useful design patterns. Several case studies are included in order to demonstrate how the presented patterns, solutions, and architectures are applied in practice. The case studies pertain to mobile service platforms, mobile XML processing, thin clients, rich clients, and mobile servers. Chapters on Architectures and Platforms, Mobile Messaging, Publish/Subscribe, Data Synchronization and Security are also included. Key Features: . Provides a comprehensive overview of mobile middleware technology. Unified treatment of three core topical areas: messaging, publish/subscribe, and data synchronization. Discusses the role of middleware in the protocol stack. Focus on both standards and research systems including current state- of-the-art systems such as Symbian, Java 2 Micro Edition, W3C technologies. Contains concrete examples showing the presented architectures and solutions in practice. Includes an accompanying website with links to open source software, and other resources This book serves as an invaluable guide to systems architects, researchers, and developers. It will also be of interest to graduate and undergraduate students studying computer science (distributed systems, computer networks).
