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Nota di contenuto	Frontmatter -- Preface / Feng, Ling -- Contents -- Acknowledgments -- Part I: Fundamental -- 1. Context-Aware Data Management Toward Ambient Intelligence -- Part II: Context -- 2. Modeling Context -- 3. Addressing Context Uncertainty -- 4. Acquiring Context -- 5. Protecting Context Privacy -- Part III: Context Awareness -- 6. Querying Context -- 7. Detecting Context Events -- 8. Energy Management in Context Querying -- 9. Context Query Efficiency Versus Expense -- Part IV: Context-Aware Data Management -- 10. Context-Aware Preference Querying -- 11. Analyzing Sensitivity of Answer Ordering Change -- 12. Explaining and Scrubbing Context-Aware Query Results -- 13. Context-Based Information Refinding -- Part V: Context-Aware Applications -- 14. A Context-Aware Ad-Hoc Meeting Planner Program -- 15. Context-Aware Learning -- 16. Context-Aware Management of Bilingual Aviation MRO Task Cards -- 17. FireVGuide: A Context-Aware Fire Victims Guide -- Index
Sommario/riassunto	The book addresses the impact of ambient intelligence, particularly its user-centric context-awareness requirement on data management strategies and solutions. Techniques of conceptualizing, capturing, protecting, modelling, and querying context information, as well as context-aware data management application are discussed, making the book is an essential reference for computer scientists, information scientists and industrial engineers.