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Titolo	Adaptive information : improving business through semantic interoperability, grid computing, and enterprise integration // Jeffrey T. Pollock, Ralph Hodgson
Pubbl/distr/stampa	Hoboken, N.J., : Wiley-Interscience, c2004
ISBN	9786610542185 9781280542183 1280542187 9780470358177 0470358173 9780471714217 0471714216 9780471714200 0471714208
Descrizione fisica	1 online resource (440 p.)
Collana	Wiley series in systems engineering and management
Altri autori (Persone)	HodgsonRalph <1945->
Disciplina	005.7/13
Soggetti	Middleware Enterprise application integration (Computer systems) Semantic integration (Computer systems) Computational grids (Computer systems) Business enterprises - Data processing Information resources management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Adaptive Information; Contents at a Glance; Contents; List of Illustrations; List of Tables and Other Sidebar Elements; Foreword; Preface; How This Book Will Help; Road Map; Guide to The Reader; Book Iconography and Picture Key; Pedagogical Elements in the Text; Acknowledgments; Part 1 Why Semantic Interoperability?; 1. Semantic Interoperability Gives IT Meaning; Does IT Matter Anymore?; Semantic Interoperability: 15-Year Overnight Success; Semantic Interoperability vs. the Semantic Web; Differing Uses of the Term "Interoperability"; The

Third Wave; Strategies for Competitive Advantage

Mergers and Acquisitions Corporate Consolidation; Increased IT Spending, Increased Agility?; Business and Application Impacts; Key Industries and Vertical Markets; Key Processes and Application Areas; The Information Explosion; Information Matters More Than Ever; Data Rich, Information Poor; Information Dominance; Systemic Barriers to IT Innovation; The Speed of Change Barrier; Entrenched IT Infrastructures; Fuzzy Data, Fuzzy Process; The "H" Factor; Summary and Conclusions; 2. Information Infrastructure Issues and Problems; Limitations of Current Technology Approaches

Off-the-Shelf Integration Products Web Services and Service-Oriented Architectures; Data Warehouses and Metadata Management; Portals; Systems Integrators-Custom Solutions; Standard Data Vocabularies; Traditional Application Integration; Key Components; Disadvantages and Concerns; Application Integration Trend: Target the Vertical Markets; Integration's Core Issue; Application Integration as Plumbing; Why Connecting Systems is Necessary; The Coupling Question; Business Process Plumbing; Service-Oriented Plumbing; Why Plumbing is Insufficient; Enterprise Content, not Plumbing, is King

Enterprise Information Data Structures Continuum of Knowledge; Final Thoughts on Overcoming Information Infrastructure Problems; Semantic Information Interoperability; 3. Promise of Frictionless Information; Organic Middleware: "Software, Integrate Thyself!"; A Tough Road Forward; Organic Middleware Hinges On Semantic Interoperability; Fragmented Industry Efforts and Organic Computing; Autonomic Computing; Semantic Web; Semantic Web Services; Service Grid; Model-Driven Architecture; Intelligent Agents; Achieving Synthesis; Intelligence Information Sharing in the Twenty-First Century Information Sharing Imperative Information Sharing Conundrum; Toward a Pragmatic Solution: Semantic Interoperability; Semantic Interoperability Framework Characteristics; Dynamic; Real Time; Loosely Coupled; Highly Flexible; Secure; Open; Service Oriented; Information-Centric; Autonomic; Developing a Semantic Interoperability Solution Architecture; Design Time; Run Time; Final Thoughts on Frictionless Information; Part 2 Semantic Interoperability Primer; 4. Foundations in Data Semantics; Introduction; The Great Debate; Plato and Aristotle Argue About Truth; Kant Searches For What is Knowable C.S. Peirce Redefines Logic and Meaning

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## Sommario/riassunto

New Paradigm for considering application integration and B2B problems  
Heightens the importance of conveying meaning between systems  
Addresses movement in the EAI space toward more data handling capabilities  
Offers a solution for the multitude of managers disconnected with the latest technologies  
Leverages the technical advances made in complex data integration over 15 years  
Shifts the focus from technology solutions to information solutions  
Relies heavily on the use of practical examples, tips, definitions, and soapbox excerpts throughout the main body of text

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