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Nota di contenuto	Introducing 4G Mobile Adventure 1.1 The user takes center stage 1.2 Business model considerations-The need for an Open Programmable Architecture 1.3 Ubiquitous service and network environment 1.4 Context Awareness 1.5 Personalization 1.6 Mobile adventure Part I-The pillars of a new architecture 2 Mobile Communications Networks 2.1 Wireless Technologies at a Glance 2.2 Wireless Networking at a Glance 2.3 Next Generation IP-based Mobile Networks 2.4 Ubiquitous Communication 2.5 Programmable Networks 2.6 Summary 3. Mobile Service Systems 3.1 Service Platforms at a glance 3.2 Next Generation Service Architectures 3.3 Ubiquitous Services Example: Session Mobility 3.4 Summary 4 Extension towards Ubiquity: Mobile Peer-to-Peer 4.1 P2P application scenarios 4.2 Challenges 4.3 Unstructured P2P 4.4 Structured P2P 4.5 Hierarchical P2P 5 Mobile Middleware 5.1 Smart Devices 5.2 Mobile Middleware Platforms 6 Cross Layer Design / a new Paradigm for Optimization of Architectures 6.1 Cross-Layer Architectures 6.2 Cross Layer Awareness: Abstracting Layer Parameters 6.3 Cross Layer Optimization: The Cost Function 6.4 Performance and Cost Analysis <Part II :Foundations of Smart Service Provisioning 7 Ontologies 7.1 Description Logics 7.2 Web Ontology Language 7.3 Ontology Engineering 7.4 Discussion 8 Semantic Services 8.1 Introduction: Challenges and Opportunities 8.2 Finding a Train: an

Hands on Experience 8.3 Web Services 8.4 Beyond XML: Using Ontologies 8.5 Using the Semantic Web to Represent Services 8.6 Service Invocation: OWL-S Process Model and Grounding 8.7 Other Proposals toward Semantic Web Services 8.8 Applications of Semantic Web Services 8.9 Future challenges 8.10 Discussion 9 Dynamic Adaptation 9.1 Effective Modells and Living Specifications 9.2 Dynamic Systems and Late Binding 9.3 Modularity and Variation Points 9.4 Adaptation Dimensions and Techniques Part III: Services and their intelligent embedding in the environment 10 Context-aware Mobility Management 10.1 Mobility management and context information 10.2 The context collection problem 10.3 An Agent-based approach for context-aware hand-over 10.4 Implementation architecture 11 Contextual Intelligence 11.1 A user-centric view of context and services 11.2 Context-oriented Programming 11.3 Proactive Service Discovery and Selection 11.4 Intelligent Service Composition 11.5 Research prototypes 12 From Personal Mobility to Mobile Personality 12.1 Future user profiling and personalization 12.2 Enablers of a mobile life style 12.3 Preference patterns for proactive service discover 12.4 Towards a mobile personality Conclusion.

Sommario/riassunto

Find out how the exciting new developments towards 4G mobile services and technologies will put the user at centre stage. Towards 4G Technologies provides a comprehensive explanation of future networking and service delivering technologies for next generation mobile systems. The authors explain how personalization, mobile middleware, peer-to-peer services, semantic computing, and content-awareness fit into this new concept and why they will become a necessity for future mobile services. The book presents the latest challenges and opportunities of Next Generation Mobile Systems, explaining new paradigms of service provisioning that include flexible and adaptable services.[START BOLD & ITALICS] Towards 4G Technologies: . Gives a comprehensive description of future networking and service delivering technologies. . Covers hot topics such as intelligent user profiling, proactive service selection, context-aware service provisioning and ubiquitous computing. . Introduces seemingly diverse technologies to show how they will play together to create a new user experience. . Includes case studies to illustrate the theory. This invaluable guide will provide telecoms engineers in R&D departments, CTOs, and telecoms managers as well as academic researchers in electrical, electronic engineering and telecommunications with a comprehensive understanding of next generation mobile system technologies and services.
