

1. Record Nr.	UNINA9910830563803321
Autore	Rao K. Ramamohan (Kamisetty Ramamohan)
Titolo	Introduction to multimedia communications [[electronic resource]] : applications, middleware, networking / / K.R. Rao, Zoran S. Bojkovic, Dragorad A. Milovanovic
Pubbl/distr/stampa	Hoboken, N.J., : John Wiley, c2006
ISBN	1-280-31163-0 9786610311637 0-470-35768-1 0-471-65639-9 0-471-65640-2
Descrizione fisica	1 online resource (773 p.)
Altri autori (Persone)	BojkovicZ. S MilovanovicDragorad A
Disciplina	621.382
Soggetti	Multimedia communications
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	INTRODUCTION TO MULTIMEDIA COMMUNICATIONS; CONTENTS; Preface; Acknowledgments; Acronyms; 1 Introduction; 2 Multimedia Communications; 2.1 Introduction; 2.2 Human Communication Model; 2.2.1 Physical System; 2.2.2 Symbol Encoding; 2.2.3 Feeling; 2.2.4 Memory; 2.2.5 Cognitive System; 2.2.6 Mission System; 2.3 Evolution and Convergence; 2.3.1 Convergence of Telecommunications and Computing; 2.3.2 Architectures for Networked Applications; 2.3.3 Networked Computers; 2.3.4 Integration; 2.3.5 Transportable Computation; 2.3.6 Intelligent Agents; 2.3.7 Convergence; 2.4 Technology Framework 2.4.1 Multimedia TechnologiesSONET (Synchronous Optical Network) and BISDN (Broadband Integrated Service Digital Network); Computer Networks; 2.4.2 Multimedia Networking; 2.4.3 Multimedia Conferencing; Centralized Conferencing Architectures; Decentralized Conferencing Architectures; Hybrid Class; 2.4.4 Multicasting; 2.4.5 Technologies for e-Content; Digital Signal Processing; Digital Networks; The Value Chain; Information Presentation; Content Description,

Identification, and Protection; 2.5 Standardization Framework; 2.5.1 Research and Regulation; 2.5.2 Technology and Education 2.5.3 Convergence and Regulatory Issues 2.5.4 Manufacturing and Marketing; 2.5.5 Digital Video/Audio Coding Standards and Multimedia Industry; ITU-T Standardization of Audiovisual Communication Systems; Video Coding Standards; Speech Coding Standards; Multimedia Multiplex and Synchronization Standards; MPEG Standards: Role in Multimedia Communications; Still Image Coding Standards; References; 3 Frameworks for Multimedia Standardization; 3.1 Introduction; 3.2 Standardization Activities; 3.2.1 Reasons for Seeking a Standard; 3.2.2 Interfaces to be Standardized; 3.2.3 Time to Standardize 3.2.4 How Will Standardization Take Place? 3.2.5 Who Will be Conducting the Standardization Activity?; 3.2.6 Where Will the Standardization Be Used?; 3.2.7 Technology Cycle and the Product or Service to be Standardized; 3.3 Standards to Build a New Global Information Infrastructure (GII); 3.3.1 Concept; 3.3.2 Performance Purposes; GII Performance Parameters; 3.3.3 Functional Model; 3.3.4 Implementation Model; 3.3.5 Scenarios Approach; 3.3.6 Standardization Efforts; 3.3.7 ITU-T Standardization Sector Program for GII; 3.3.8 Future Directions 3.4 Standardization Processes on Multimedia Communications 3.4.1 ITU-T Strategies; 3.4.2 ISO/IEC JTC1 Directions in Multimedia Standards; The ISO/IEC Approach; JTC1 Standardization Project; 3.4.3 IETF Standards; 3.4.4 ETSI Standardization Projects for Applications, Middleware and Networks; 3.4.5 GII-Related Activities; 3.5 ITU-T Mediacom 2004 Framework for Multimedia Communications; 3.5.1 Scope; 3.5.2 Multimedia Framework Study Areas; 3.5.3 Study Group 16 Work Program; 3.6 ISO/IEC MPEG-21 Multimedia Framework; 3.6.1 User Model; 3.6.2 Digital Items; 3.6.3 Work Plan Vision, Technology, and Strategy

Sommario/riassunto

A comprehensive resource on multimedia communications. Covers recent trends and standardization activities in multimedia communications, such as layered structures, underlying theories and the current best design techniques. Describes the convergence of various technologies including communications, broadcasting, information technology, and home electronics, and emerging new communication services and applications resulting from the growth of the Internet and wireless technologies. Please go to www-ee.uta.edu/dip for additional information. An Instructor Support FTP site is available fr