1.	Record Nr.	UNINA9910139933303321
	Titolo	The JPEG 2000 suite [[electronic resource] /] / edited by Peter Schelkens, Athanassios Skodras, Touradj Ebrahimi
	Pubbl/distr/stampa	Chichester, West Sussex, U.K. ; ; Hoboken, N.J., : Wiley, 2009
	ISBN	1-282-29164-5 9786612291647 0-470-74463-4 0-470-74462-6
	Descrizione fisica	1 online resource (557 p.)
	Collana	The Wiley-IS&T Series in Imaging Science and Technology ; ; v.15
	Altri autori (Persone)	SchelkensPeter SkodrasAthanassios EbrahimiTouradj
	Disciplina	006.6
	Soggetti	JPEG (Image coding standard) Image compression Electronic books.
	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	The JPEG 2000 Suite; Contents; Contributor Biographies; Foreword; Series Editor's Preface; Preface; Acknowledgments; List of Acronyms; Part A; 1 JPEG 2000 Core Coding System (Part 1); 1.1 Introduction; 1.2 JPEG 2000 Fundamental Building Blocks; 1.2.1 Preprocessing; 1.2.2 The Discrete Wavelet Transform (DWT); 1.2.3 Quantization; 1.2.4 Entropy Coding; 1.3 JPEG 2000 Bit-Stream Organization; 1.3.1 Canvas Coordinate System; 1.3.2 Resolution Grids; 1.3.3 Precinct and Code-Block Partitioning; 1.3.4 Layers and Packets; 1.3.5 Packet Header; 1.3.6 Progression Order 1.3.7 Code-Stream Organization and Syntax1.4 JPEG 2000 Rate Control; 1.4.1 Rate Control Using an Explicit q-Table; 1.4.2 Rate Control Using the EBCOT Algorithm (PCRD-opt); 1.5 Performance Comparison of the JPEG 2000 Encoder Options; 1.5.1 Lossy Results; 1.5.2 Lossless Results; 1.5.3 Bit-Plane Entropy Coding Results; 1.6 Additional Features of JPEG 2000 Part 1; 1.6.1 Region-of-Interest (ROI) Coding; 1.6.2 Error Resilience; 1.6.3 File Format; Acknowledgments;

Sommario/riassunto	The JPEG 2000 Suite provides a comprehensive overview of the baseline JPEG 2000 standard and its extensions. The first part of the book sets out the core coding system, additions to the standard and reference software. The second part discusses the successful deployment of JPEG 2000 in application domains such as video surveillance, digital cinema, digital television, medical imaging, defence imaging, security, geographic imaging and remote sensing, digital culture imaging and 3D graphics. The book also presents implementation strategies accompanied by existing software and hardware sol