Record Nr. UNINA9911004814403321 Autore Rabbani Majid <1955-> Titolo Digital image compression techniques / / Majid Rabani, Paul W. Jones Bellingham, Wash., : Spie Optical Engineering Press, c1991 Pubbl/distr/stampa **ISBN** 9781615837373 161583737X 9780819478528 0819478520 Descrizione fisica 1 online resource (236 p.) Collana Tutorial texts in optical engineering;; v. TT 7 Altri autori (Persone) JonesPaul W. <1958-> 621.36/7 Disciplina Soggetti Image processing - Digital techniques Coding theory Image compression - Data processing Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Includes bibliographical references. Nota di bibliografia Nota di contenuto I. Background -- Digital images and image compression -- II. Information theory concepts -- Source models and entropy --Variable-length codes -- Entropy estimation and lossless compression -- Rate-distortion theory and lossy compression -- III. Lossless compression techniques -- Introduction -- Bit plane encoding -- Lossy plus lossless residual encoding -- IV. Lossy compression techniques --Introduction -- Lossy predictive coding -- Transform coding -- Block truncation coding -- Vector quantization -- Subband coding --Hierarchical coding -- Choosing a lossy compression technique --Appendix Compression of color images. Sommario/riassunto In order to utilize digital images effectively, specific techniques are needed to reduce the number of bits required for their representation. This Tutorial Text provides the groundwork for understanding these image compression tecniques and presents a number of different schemes that have proven useful. The algorithms discussed in this book are concerned mainly with the compression of still-frame, continuous-tone, monochrome and color images, but some of the techniques, such as arithmetic coding, have found widespread use in

the compression of bilevel images. Both lossless (bit-preserving) and

lossy techniques are considered. A detailed description of the compression algorithm proposed as the world standard (the JPEG baseline algorithm) is provided. The book contains approximately 30 pages of reconstructed and error images illustrating the effect of each compression technique on a consistent image set, thus allowing for a direct comparison of bit rates and reconstructed image quality. For each algorithm, issues such as quality vs. bit rate, implementation complexity, and susceptibility to channel errors are considered.

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Finally, a book that answers all of your hair questions, put together by the most-read digital men's magazine, AskMen. No one's excluded. Our readers are as diverse as the hair on their heads, so whether you're clueless on the subject or are a hairstylist, whether you have curly hair or are balding, there's takeaway value for all. The Hair Manual offers men information on and step-by-step guides to:- Finding the hairstyle that's right for you, specifically looking at face shapes. - How to deal with diverse hair types: straight, curly, afro-textured and thinning/balding.- How to find a barber and how to talk to him (includes a list of the best barbershops in North America).- Understanding hair products and how to work with them. - Going gray and hair coloring. - Cheats sheets on quick fixes for bad hair days.

hairstyles for every occasion and a hair glossary.- Advice from guys like Andre 3000, the team at Blind Barber, Diplo, Billy Reid, Marcus Troy and more. Know the feeling of putting on your suit or dressing for a date only to be defeated by your hair? It's kind of absurd how much power our hair has over us. It frames your face and is clearly a noticeable part of your overall image. So get it right -- The Hair Manual shows you how.