



Digital Compression of Still Images and Video (Signal Processing and its Applications)

Roger J. Clarke

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Spectacular advances during the last decade have altered the related disciplines of computing and telecommunications beyond all recognition. The developments in the "enabling technologies," which have made these advances possible, have been less obvious to the casual observer. The subject of this book is one of these technologies--the coding of still images and picture sequences (video).

Digital Compression of Still Images and Video is general in approach and covers all the recognized coding algorithms; explaining their basic theory in enough detail that the reader will understand the principles involved. Results which have been achieved with coding algorithms by researchers in all parts of the world are also discussed. A brief historical review of the area is included to orient those new to the field, and the work is supported by references spanning the period from the earliest work on time/frequency analysis, to the latest topic of research interest--image sequence transmission using asynchronous transfer mode (ATM) techniques.

This book will make an excellent reference for graduates and researchers working on image coding and transmission, and will also be of use to those in the related areas of computer vision and multimedia developments. It is essential reading for the rapidly increasing number of technical and professional staff in the industrial environment who, maybe for the first time, are coming to grips with image coding.

Key Features

- * Provides complete and up-to-date coverage of all digital image and video coding (compression) techniques
- * Includes more than 850 references covering relevant work from the 1940s to the present
- * Presents information on new directions in coding
- * Contains details on current coding standards
- * Describes and explains all algorithms in use for image coding

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