

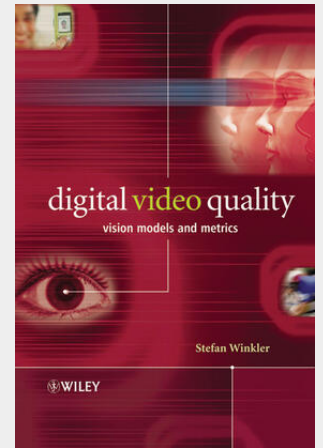
Winkler

Digital Video Quality

Vision Models and Metrics

Visual quality assessment is an interdisciplinary topic that links image/video processing, psychology and physiology. Many engineers are familiar with the image/video processing; transmission networks side of things but not with the perceptual aspects pertaining to quality. Digital Video Quality first introduces the concepts of human vision and visual quality. Based on these, specific video quality metrics are developed and their design is presented. These metrics are then evaluated and used in a number of applications, including image/video compression, transmission and watermarking. * Introduces the concepts of human vision and vision quality. * Presents the design and development of specific video quality metrics. * Evaluates video quality metrics in the context of image/video compression, transmission and watermarking. * Presents tools developed for the analysis of video quality

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