

# List of tables

Table 1.1	Typical parameters for common digital video formats and their (uncompressed) bit rate requirements.	4
Table 1.2	Theoretical bandwidth characteristics for common communication systems.	5
Table 4.1	Aspect ratios of film and TV.	107
Table 4.2	ITU-R Rec.BT.500 subjective evaluation impairment scale.	129
Table 6.1	Relationship between subband frequency range and number of samples for each subband in a five-stage decomposition.	199
Table 6.2	Technical overview of JPEG2000.	208
Table 7.1	Alternative codes for a given probability distribution.	218
Table 7.2	Table for luminance DC coefficient differences.	232
Table 7.3	Table for luminance AC coefficients, showing <i>run/size (R/S)</i> values, Huffman codes, and their length ( <i>L</i> ).	233
Table 7.4	JPEG coefficient size categories.	234
Table 7.5	Prediction modes for lossless JPEG.	238
Table 7.6	Golomb codes for index values $i = 0 \dots 9$ .	239
Table 8.1	Comparison of warping and translational models for three test sequences [5].	266
Table 8.2	Reduced complexity BMME comparisons for the Bream CIF sequence at 25 fps. Top: checking points per macroblock. Bottom: SAD error relative to full search.	286
Table 9.1	Performance of simplex-based (SMS) multiple reference frame motion estimation. Results from Ref. [13].	309
Table 10.1	Selected subjective testing viewing environment parameters. From Refs. [4,5].	324
Table 11.1	FLC vs VLC encoding for various channel conditions. $256 \times 256$ Lena image at 2 bpp.	374
Table 11.2	Selected performance results for EECMS (from Ref. [27]).	404
Table 12.1	Primary features of H.261.	416
Table 12.2	MPEG-2 main profile@main level (MP@ML) bounds.	419
Table 12.3	Primary features of H.263.	420
Table 12.4	Primary features of H.264/AVC.	427
Table 12.5	Example HEVC levels.	438
Table 12.6	SAO edge classification.	445

Table 12.7	Comparison of video coding standards for entertainment applications. Average bit rate savings are shown for equal objective quality values measured using PSNR.	446
Table 13.1	Parameter set for UHDTV/ITU-R Rec.2020.	454