

## LIST OF ACRONYMS

2-D	Two-Dimensional
ADALINE	Adaptive Linear Element
ANN	Artificial Neural Network
ART	Adaptive Resonance Theory
AWGN	Additive White Gaussian Noise
BAM	Bidirectional Associative Memory
BIBO	Bounded Input Bounded Output
BPN	Back Propagation Network
BTC	Block Truncation Coding
CCD	Charge Coupled Device
CIE	Commission International d'Eclairage
CLS	Constrained Least Square
CLUT	Color Look-up Table
CMOS	Complementary Metal Oxide Semiconductor
CODEC	Coder Decoder
CPN	Counter Propagation Network
CR	Compression Ratio
CRT	Cathode Ray Tube
CTE	Charge Transfer Efficiency
DCT	Discrete Cosine Transform
DFB	Directional Filter Bank
DFT	Discrete Fourier Transform
DICOM	Digital Imaging and Communications in Medicine
DM	Delta Modulation
DPCM	Differential Pulse Code Modulation
DPI	Dots Per Inch
DWT	Discrete Wavelet Transform
EBCOT	Embedded Block Coding with Optimized Truncation
ECG	Electro Cardiogram
EPS	Encapsulated Post Script
EZW	Embedded Zero Tree Wavelet
FDCT	Forward Discrete Cosine Transform
FFT	Fast Fourier Transform
FIR	Finite Impulse Response
FLC	Fixed Length Code
GIF	Graphic Interchange Format
HVS	Human Visual System
IDCT	Inverse Discrete Cosine Transform
IEEE	Institute of Electrical and Electronic Engineers
iid	Independent and identically distributed
IIR	Infinite Impulse Response
IFS	Iterated Function System
JFIF	JPEG File Interchange Format
JPEG	Joint Photographic Expert Group
KLT	Karhunen-Loeve Transform

LMS	Least Mean Square
LP	Laplacian Pyramid
LSI	Linear Shift Invariant System
LZW	Lempel-Ziv-Welch
MADALINE	Multiple Adaptive Linear Element
MAE	Mean Absolute Error
MPEG	Moving Pictures Expert Group
MR	Multiresolution
MSE	Mean Square Error
MSVQ	Multi-Stage Vector Quantization
NIST	National Institute of Standards and Technology
NTSC	National Television System Committee
PACS	Picture Archiving and Communication Systems
PCA	Principal Component Analysis
PDFB	Pyramidal Directional Filter Bank
PEL	Picture Element
PIFS	Partitioned Iterated Function System
PNG	Portable Network Graphics
PSF	Point Spread Function
PSNR	Peak Signal-to-Noise Ratio
RBF	Radial Basis Function
R-D	Rate-Distortion
RLC	Run Length Coding
RMSE	Root Mean Square Error
SECAM	Sequential Chrominance Signal and Memory
SNR	Signal-to-Noise Ratio
SOM	Self Organizing Map
SONAR	Sound Navigation and Ranging
SPIHT	Set Partitioning in Hierarchical Trees
SQ	Scalar Quantization
STFT	Short Time Fourier Transform
SURE	Stein's Unbiased Risk Estimator
SVD	Singular Value Decomposition
SVG	Scalable Vector Graphics
TIFF	Tagged Image File Format
TSVQ	Tree Structure Vector Quantization
VLC	Variable Length Coding
VOXEL	Volume Pixel
VQ	Vector Quantization
WHT	Walsh Hadamard Transform
WP	Wavelet Packet
WT	Wavelet Transform
WWW	World Wide Web