

List of Abbreviation

Abbreviation	Full form
<i>2D</i>	Two-Dimensional
<i>3D</i>	Three-Dimensional
<i>ACS</i>	Adaptive Center Selection
<i>ANCPB</i>	Average Number of Checked Pixels per Block
<i>ARPS</i>	Adaptive Rood Pattern Search
<i>BC</i>	Block Classification
<i>BD</i>	Boundary
<i>BD – PSNR</i>	Bjontegaard Delta Peak-Signal-to-Noise-Ratio
<i>BD – Bitrate</i>	Bjontegaard Delta Bit-rate
<i>BFB</i>	Background Foreground Boundary
<i>BFDS</i>	Background-Foreground-Division-based Search
<i>BG</i>	Background
<i>BMA</i>	Block Matching Algorithm
<i>BP</i>	Block Partitioning
<i>bps</i>	Bits per second
<i>CDF</i>	Cumulative Distribution Function
<i>CDHS</i>	Cross Diamond Hexagon-shaped Search
<i>CDS</i>	Cross Diamond Search
<i>CR</i>	Compression Ratio
<i>CS</i>	Cross Search
<i>DCT</i>	Discrete Cosine Transform
<i>DI</i>	Dynamic Indexing
<i>DISC</i>	Dynamically chosen Initial Search Center
<i>DS</i>	Diamond Search
<i>DWT</i>	Discrete Wavelet Transform
<i>EDOS</i>	Efficient Direction-Oriented Search
<i>EGC</i>	Exponential Golomb Codes
<i>FAME</i>	Fast Adaptive Motion Estimation
<i>FG</i>	Foreground
<i>FPGA</i>	Field-Programmable Gate Array
<i>FS</i>	Full Search
<i>FSS</i>	Four-Step Search
<i>GPU</i>	Graphics Processing Unit
<i>HCI</i>	Human-Computer Interaction
<i>HEVC</i>	High-Efficiency Video Coding
<i>HS</i>	Hexagon-shaped Search
<i>HWDS</i>	Horizontal Wings Diamond Search
<i>IHS</i>	Inclined Hexagon-shaped Search
<i>IMV</i>	Intermediate Motion Vector
<i>JCT – VC</i>	Joint Collaborative Team on Video Coding
<i>JPEG</i>	Joint Photographic Experts Group
<i>KCDS</i>	Kite Cross Diamond Search

Abbreviation	Full form
<i>LCSP</i>	Large Cross Search Pattern
<i>LDSP</i>	Large Diamond Search Pattern
<i>LHSP</i>	Large Hexagon-shaped Search Pattern
<i>MAD</i>	Mean of Absolute Differences
<i>MHGS</i>	Modified Hexagon Grid Search
<i>MoCap</i>	Motion Capture
<i>MPEG</i>	Moving Picture Experts Group
<i>MSE</i>	Mean Squared Error
<i>MV</i>	Motion Vector
<i>NTSS</i>	New Three-Step Search
<i>OB</i>	Overlapping Blocks
<i>PCA</i>	Principal Component Analysis
<i>PDF</i>	Probability Distribution Function
<i>pSAD</i>	Partial SAD
<i>PSNR</i>	Peak-Signal-to-Noise-Ratio
<i>QP</i>	Quantization Parameter
<i>RD</i>	Rate-Distortion
<i>RMV</i>	Relative Motion Vector
<i>RoI</i>	Region-of-Interest
<i>SAD</i>	Sum of Absolute Differences
<i>SCSP</i>	Small Cross Search Pattern
<i>SDSP</i>	Small Diamond Search Pattern
<i>SHSP</i>	Small Hexagon-shaped Search Pattern
<i>SP</i>	Skeleton Prediction
<i>SPE</i>	Skeleton Prediction Error
<i>SR</i>	Search Region
<i>SS</i>	Search Strategy
<i>SSIM</i>	Structural Similarity Index
<i>TZS</i>	Test Zone Search
<i>TSS</i>	Three Step Search
<i>VLSI</i>	Very-Large-Scale Integration
<i>VMAF</i>	Video Multi-Method Assessment Fusion
<i>VWDS</i>	Vertical Wings Diamond Search
<i>WMSE</i>	Weighted Mean Squared Error
<i>WPSNR</i>	Weighted Peak-Signal-to-Noise-Ratio