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## Abbreviations

<b>CRN</b>	<b>Cognitive Radio Network</b>
<b>SU</b>	<b>Secondary User</b>
<b>CU</b>	<b>Cognitive User</b>
<b>PU</b>	<b>Primary User</b>
<b>QoS</b>	<b>Quality of Service</b>
<b>FCC</b>	<b>Federal Communications Commission</b>
<b>FIS</b>	<b>Fuzzy Inference System</b>
<b>EDM</b>	<b>Energy Detection Method</b>
<b>CBM</b>	<b>Correlation Based Method</b>
<b>PAL</b>	<b>Phase Alternating Line</b>
<b>DVB-T</b>	<b>Digital and Video Broadcasting Terrestrial</b>
<b>FC</b>	<b>Fusion Center</b>
<b>COA</b>	<b>Center Of Area</b>
<b>TVWS</b>	<b>Tele Vision White Spaces</b>
<b>NTRA</b>	<b>National Telecommunications Regulatory Authority</b>
<b>ETSI</b>	<b>European Telecommunications Standards Institute</b>
<b>OFDM</b>	<b>Orthogonal Frequency Division Multiplexing</b>
<b>AWGN</b>	<b>Additive White Gaussian Noise</b>
<b>SNR</b>	<b>Signal-to-Noise-Ratio</b>
<b>PRBS</b>	<b>Pseudo Random Binary Sequency</b>
<b>BPSK</b>	<b>Binary Phase Shift Keying</b>
<b>ROC</b>	<b>Receiver Operating Characteristics</b>
<b>RAN</b>	<b>Regional Area Network</b>

*Abbreviations*

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<b>CCC</b>	<b>Common Control Channel</b>
<b>LLR</b>	<b>Log Likelihood Ratio</b>
<b>PDF</b>	<b>Probability Density Function</b>
<b>FFT</b>	<b>Fast Fourier Transform</b>