List of Abbreviations

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| **Abbreviations** | **Full Description** |
| AA | Average Accuracy |
| ASK | Adaptive Scalable Kernel |
| AVIRIS | Airborne Visible Infrared Imaging Spectrometer |
| CR | Collaborative Representation |
| DF | Decision Fusion |
| DTF | Domain Transform Filter |
| EMAP | Extended Multi-Attribute Profile |
| EPF | Edge Preserving Filter |
| ERS | Entropy Rate Segmentation |
| FF | Feature Fusion |
| HiFi | Hierarchical Guidance Filtering |
| HSI | Hyperspectral Image |
| IFRF | Image Fusion and Recursive Filtering |
| IID | Intrinsic Image Decomposition |
| JCR | Joint Collaborative Representation |
| JSACR | Joint Spatial Aware Collaborative Representation |
| PCA | Principal Component Analysis |
| PKCR | Probabilistic Kernel Collaborative Representation |
| PMKCR | Probabilistic Multi-Kernel Collaborative Representation |
| PPS | Pixels Per Superpixel |
| RBF | Radial Basis Function |
| SACR | Spatial Aware Collaborative Representation |
| SMKCR | Superpixel-guided Multiscale Kernel Collaborative Representation |
| SP | Superpixel |
| STD | Standard Deviation |
| OA | Overall Accuracy |