

**Acronyms**

**BP** Basis Pursuit

**BPDN** Basis Pursuit Denoising

**BTES** Binary Tree based Edge Sensing

**CFA** Color Filter Array

**CLSR** Collaborative Sparse Regression

**DCT** Discrete Cosine Transform

**JSTV** Joint Sparse Total Variation

**LASSO** Least Absolute Shrinkage and Selection Operator

**LSMD** Least-Square based Multispectral Demosaicing

**MOD** Method of Optimal Directions

**MSFA** Multispectral Filter Array

**PSNR** Peak Signal to Noise Ratio

**SBJS** Split Bregman based Joint Sparse

**SBTV** Split Bregman based Total Variation

**SPGL1** Spectral Projected Gradient for L1

**SRTV** Total Variation Spatial Regularization

**SSIM** Structural Similarity Index

**SVD** Singular Value Decomposition

**UMSFA** Uniform Multispectral Filter Array