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| **Table S1 List of symbols and variables.** | |
| **Parameter or symbol** | **Description** |
|  | Sequence of turbulent images |
|  | Number of images |
|  | Dimension of each turbulent image |
|  | Basis matrix |
|  | Coefficient matrix |
|  | row vector of *U* |
|  | row vector of *V* |
|  | Image noise per pixel of the turbulent image |
|  | Gaussian distribution with zero mean and variance |
|  | Matrix of non-negative weights |
|  | Turbulence-free images |
|  | Diagonal matrix with elements |
|  | Identity matrix |
|  | Transformation matrix |
|  | Transformation operator |
|  | Jacobian matrix of image |
|  | Soft thresholding operator |
|  | Penalty value in ADMM algorithm |
| *P* | Step of the ADMM algorithm |
|  | Minimum allowable size of window |
|  | Maximum allowable size of window |