

## List of Symbols

| <i>Symbol</i>          | <i>Description</i>                   |
|------------------------|--------------------------------------|
| <b>B</b>               | Bases vector dictionary              |
| <b>X</b>               | Grid of patches                      |
| <b>Y</b>               | Label set for grid of patches        |
| <i>D</i>               | Dictionary for image patches         |
| <b>y</b>               | Label for a single patch             |
| <b>x</b>               | Target patch                         |
| $\lambda$              | Regularization Term                  |
| <b>S</b>               | Sparse latent variable               |
| <i>G</i>               | Graph                                |
| <i>v</i>               | Nodes                                |
| $\varepsilon$          | Edges                                |
| <b>w</b>               | Weight vector                        |
| <i>X</i>               | Set of training instances            |
| <i>Y</i>               | Set of labels for training instances |
| $\gamma$               | Weight regularization term           |
| <b>O</b>               | Saliency Map                         |
| <b>A</b>               | an input descriptor matrix           |
| $s_i$                  | sparse latent variable               |
| <i>sim</i>             | similarity function                  |
| <i>dis<sub>i</sub></i> | distance function                    |
| <i>p</i>               | pseudo-word                          |
| $\sigma$               | neighborhood width control parameter |

