$$(\mathbf{D}, \mathbf{X}) = \arg\min_{\mathbf{D}, \mathbf{X}} \sum_{c=1}^{C} \|\mathbf{Y}_c - \mathbf{D}_c \mathbf{X}^c\|_F^2 + \lambda \|\mathbf{X}^c\|_1 + \frac{\eta}{2} \sum_{j=1, j\neq c}^{C} \|\mathbf{D}_j^T \mathbf{D}_c\|_F^2)$$