

$$V(t) = \left( \begin{array}{c} label_{1,1} \\ \vdots \\ label_{1,J} \\ \\ \vdots \\ \\ label_{I,1} \\ \vdots \\ label_{I,J} \end{array} \right) \left. \begin{array}{l} \\ \\ \\ \\ \\ \end{array} \right\} \begin{array}{l} \text{Pixel 1} \\ \\ \\ \text{Pixel I} \end{array}$$

$$\sum_{j=1}^J label_{i,j} = 0, \quad i \in [1, I]$$