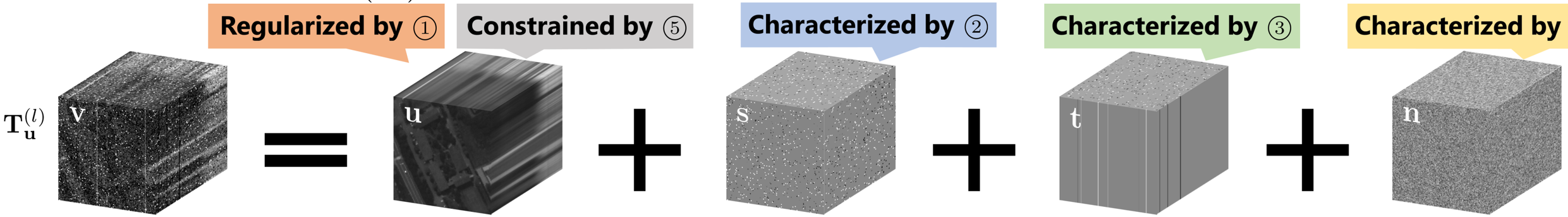
Observation model in (15)

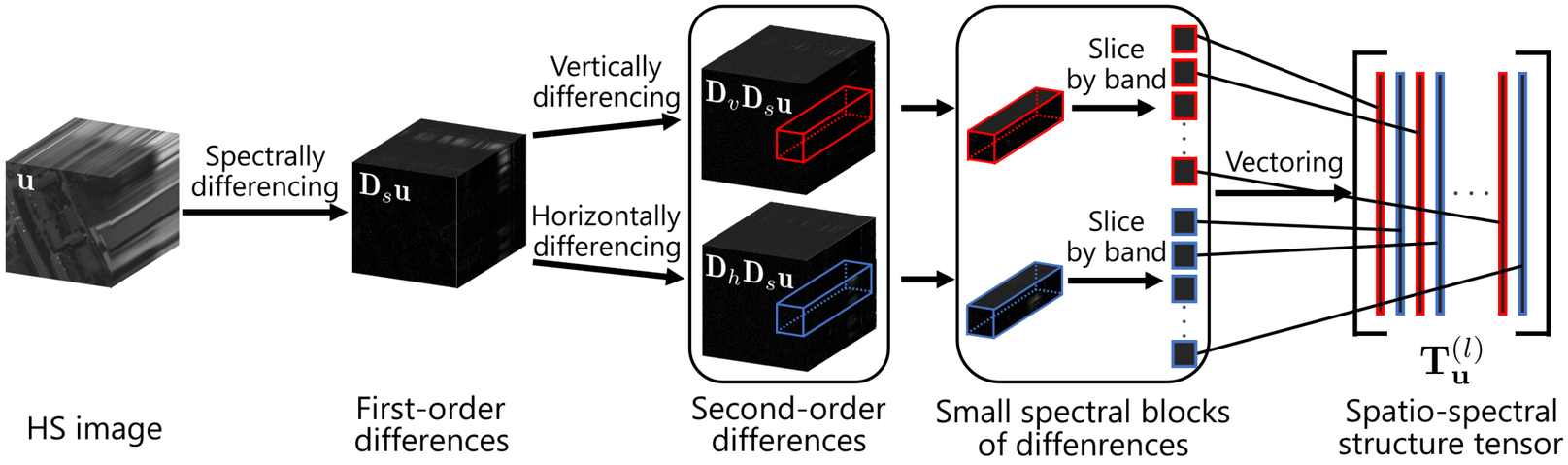


Problem formulation in (16)

$$\min_{\mathbf{u},\mathbf{s},\mathbf{t}\in\mathbb{R}^N} \mathrm{S_3TTV}(\mathbf{u}), \quad \cdots ①$$

$$\text{s.t.} \begin{cases} \mathbf{s} \in B_{1,\alpha}, & \cdots ② \\ \mathbf{t} \in B_{1,\beta}, & \cdots ③ \\ \mathbf{D}_v\mathbf{t} = \mathbf{0}, & \cdots ③ \\ \mathbf{u}+\mathbf{s}+\mathbf{t} \in B^{\mathbf{v}}_{2,\varepsilon}, & \cdots ④ \\ \mathbf{u} \in R_{\underline{\mu},\bar{\mu}}. & \cdots ⑤ \end{cases}$$

Construction of the spatio-spectral structure tensor in (12)



Algorithm 1 Solving (16) based on the preconditioned primal-dual splitting method (P-PDS)