

Initialization



Users :



Weights :



Labels : y_{img}

Weights update

For all \in

- get valid species authored by
- get species identified by
- $= f \left(\left| \text{smartphone} \right| + \left| \text{lightbulb} \right| / 10 \right)$

Labels update and validation

For all \in

- $\hat{y}_{\text{img}} \leftarrow \hat{y}_{\text{img}}^{\text{WMV}}$ (Label update)
- $\text{conf}_{\text{img}}(\cdot) \leftarrow \sum_{\text{img} \in \text{img}} \text{img} \cdot \mathbb{1}_{\{y_{\text{img}} = \cdot\}}$ (Confidence update)
- $\text{acc}_{\text{img}}(\hat{y}_{\text{img}}) \leftarrow \text{conf}_{\text{img}}(\hat{y}_{\text{img}}) / \sum_{\text{flower} \in \{\text{flower icons}\}} \text{conf}_{\text{img}}(\text{flower})$ (Accuracy update)
- is valid if $\begin{cases} \text{conf}_{\text{img}}(\hat{y}_{\text{img}}) > \theta_{\text{conf}} \\ \text{acc}_{\text{img}}(\hat{y}_{\text{img}}) > \theta_{\text{acc}} \end{cases}$ (Validation)