

$$\hat{x} = D(\mathcal{E}(x))$$

$$\mathcal{Z} = MSE(x, \hat{x})$$

$$MAF(x, \hat{x})$$

$$MAPE(x, \hat{x})$$

$$BCE(x, \hat{x})$$

Denoising: $\begin{cases}
L = MSE(x, D(E(x+E))) \\
E \sim \mathcal{N}(0, 6^{3})
\end{cases}$

$$ke ||F|| = R^{n}$$

$$ke ||F|| =$$

$$2 = MSE(x, x) + \lambda \cdot reg$$

$$reg = \sum_{i=1}^{N} \sum_{j: h_j \neq c} (1 - h_j)^2 + \sum_{i=1}^{N} \sum_{j: h_j < c} h_j^2$$

$$P, 9 \quad RL(pllg) = \int_{P} p(x) \log \frac{P(x)}{q(x)} dx$$

$$x \sim X$$

$$+ L(pllg) \neq LL(ql/p)$$

$$|CL(p||q) = -\sum_{h \in \mathbb{R}^{H}} \log f$$

$$|F| |CL(p||h) = -\sum_{h \in \mathbb{R}^{H}} \log f$$

$$|P| |P| |P| |P| = -\sum_{h \in \mathbb{R}^{H}} \log f$$

$$|P| |P| |P| |P| = \sum_{h \in \mathbb{R}^{H}} \sum_{h \in \mathbb{R}^{H}} (p \log f) + (1-p) \log f - h$$

$$|P| |P| |P| |P| = \sum_{h \in \mathbb{R}^{H}} \sum_{h \in \mathbb{R}^{H}} (p), h$$

$$|P| |P| |P| = \sum_{h \in \mathbb{R}^{H}} \sum_{h \in \mathbb{R}^{H}} (p), h$$

$$|P| |P| = \sum_{h \in \mathbb{R}^{H}} \sum_{h \in \mathbb{R}^{H}} (p), h$$

$$|P| |P| = \sum_{h \in \mathbb{R}^{H}} \sum_{h \in \mathbb{R}^{H}} (p), h$$

$$|P| |P| = \sum_{h \in \mathbb{R}^{H}} \sum_{h \in \mathbb{R}^{H}} (p), h$$

$$|P| |P| = \sum_{h \in \mathbb{R}^{H}} \sum_{h \in \mathbb{R}^{H}} (p), h$$

$$|P| |P| = \sum_{h \in \mathbb{R}^{H}} \sum_{h \in \mathbb{R}^{H}} (p), h$$

$$|P| |P| = \sum_{h \in \mathbb{R}^{H}} \sum_{h \in \mathbb{R}^{H}} (p), h$$

$$|P| |P| = \sum_{h \in \mathbb{R}^{H}} \sum_{h \in \mathbb{R}^{H}} (p), h$$

$$|P| |P| = \sum_{h \in \mathbb{R}^{H}} \sum_{h \in \mathbb{R}^{H}} (p), h$$

$$|P| |P| = \sum_{h \in \mathbb{R}^{H}} \sum_{h \in \mathbb{R}^{H}} (p), h$$

$$|P| = \sum_{h \in \mathbb{R}^{H}} \sum_{h \in \mathbb{R}^{H}} (p), h$$

$$|P| = \sum_{h \in \mathbb{R}^{H}} \sum_{h \in \mathbb{R}^{H}} (p), h$$

$$|P| = \sum_{h \in \mathbb{R}^{H}} \sum_{h \in \mathbb{R}^{H}} (p), h$$

$$|P| = \sum_{h \in \mathbb{R}^{H}} \sum_{h \in \mathbb{R}^{H}} (p), h$$

$$|P| = \sum_{h \in \mathbb{R}^{H}} \sum_{h \in \mathbb{R}^{H}} (p), h$$

$$|P| = \sum_{h \in \mathbb{R}^{H}} \sum_{h \in \mathbb{R}^{H}} (p), h$$

$$|P| = \sum_{h \in \mathbb{R}^{H}} \sum_{h \in \mathbb{R}^{H}} (p), h$$

$$|P| = \sum_{h \in \mathbb{R}^{H}} \sum_{h \in \mathbb{R}^{H}} (p), h$$

$$|P| = \sum_{h \in \mathbb{R}^{H}} \sum_{h \in \mathbb{R}^{H}} (p), h$$

$$|P| = \sum_{h \in \mathbb{R}^{H}} \sum_{h \in \mathbb{R}^{H}} (p), h$$

$$|P| = \sum_{h \in \mathbb{R}^{H}} \sum_{h \in \mathbb{R}^{H}} (p), h$$

$$|P| = \sum_{h \in \mathbb{R}^{H}} \sum_{h \in \mathbb{R}^{H}} (p), h$$

$$|P| = \sum_{h \in \mathbb{R}^{H}} \sum_{h \in \mathbb{R}^{H}} (p), h$$

$$|P| = \sum_{h \in \mathbb{R}^{H}} \sum_{h \in \mathbb{R}^{H}} (p), h$$

$$|P| = \sum_{h \in \mathbb{R}^{H}} \sum_{h \in \mathbb{R}^{H}} (p), h$$

