LaTex 笔记

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1 表达式与方程组

离散求和

$$H(x) = \sum_{i=0, j=0}^{N-1, M-1} (x_{i,j} = x), x = 0, 1, \cdots, 255 \tag{1}$$

离散求和（方程组）

$$u = \sum_{i=0}^{k} \sum_{j=0}^{i} a_{ij} \cdot x^i y^{i-j} \tag{2}$$

$$v = \sum_{i=0}^{k} \sum_{j=0}^{i} b_{ij} \cdot x^i y^{i-j} \tag{3}$$

均方根误差 RMSE

$$RMSE_x = \sqrt{\frac{\sum\limits_{i=0}^{N-1} (x_i' - u_i)^2}{N}} \tag{4}$$

$$RMSE_y = \sqrt{\frac{\sum\limits_{i=0}^{N-1} (y_i' - v_i)^2}{N}} \tag{5}$$

2 向量与矩阵

矩阵运算

$$\begin{bmatrix} u \\ v \end{bmatrix} = \begin{bmatrix} a_0 & a_1 & a_2 \\ b_0 & b_1 & b_2 \end{bmatrix} \cdot \begin{bmatrix} 1 & x & y \end{bmatrix}^T \tag{6}$$