2017年5月1日 9:13

$$\begin{aligned} 1. & 1 - N_{+}^{2} - N_{-}^{2} &= 1 - N_{+} - CI - M_{+}^{2} \\ &= -2(M_{-}^{2})^{2} + \frac{1}{2} \\ M_{+} &= M_{-} &= \frac{1}{2} BJ, \quad 1 - M_{+}^{2} - M_{-}^{2} & 66 \times 66 \times 66 \end{aligned}$$

$$\frac{3}{120} \left(\frac{1-1}{120} \right)^{1/2} = \left(\frac{1}{1200} \left(\frac{1-1}{120} \right)^{1/2} \right)^{1/2} = e^{\frac{1}{1200}}$$

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$$6, \qquad \mathcal{U}_{H-1} = \sum_{h=1}^{N} \mathcal{M}_{h}^{(H+1)} = \sum_{h=1}^{N} \mathcal{M}_{h}^{(H)} \cdot \langle t \cdot || y_{h} \neq \mathcal{J}_{t} (x_{h}) || + \sum_{h=1}^{N} \mathcal{M}_{h}^{(H)} / \langle t \cdot || y_{h} = \mathcal{J}_{t} (x_{h}) || + \sum_{h=1}^{N} \mathcal{M}_{h}^{(H)} / \langle t \cdot || y_{h} = \mathcal{J}_{t} (x_{h}) || + \sum_{h=1}^{N} \mathcal{M}_{h}^{(H)} / \langle t \cdot || y_{h} = \mathcal{J}_{t} (x_{h}) || + \sum_{h=1}^{N} \mathcal{M}_{h}^{(H)} / \langle t \cdot || y_{h} = \mathcal{J}_{t} (x_{h}) || + \sum_{h=1}^{N} \mathcal{M}_{h}^{(H)} / \langle t \cdot || y_{h} = \mathcal{J}_{t} (x_{h}) || + \sum_{h=1}^{N} \mathcal{M}_{h}^{(H)} / \langle t \cdot || y_{h} = \mathcal{J}_{t} (x_{h}) || + \sum_{h=1}^{N} \mathcal{M}_{h}^{(H)} / \langle t \cdot || y_{h} = \mathcal{J}_{t} (x_{h}) || + \sum_{h=1}^{N} \mathcal{M}_{h}^{(H)} / \langle t \cdot || y_{h} = \mathcal{J}_{t} (x_{h}) || + \sum_{h=1}^{N} \mathcal{M}_{h}^{(H)} / \langle t \cdot || y_{h} = \mathcal{J}_{t} (x_{h}) || + \sum_{h=1}^{N} \mathcal{M}_{h}^{(H)} / \langle t \cdot || y_{h} = \mathcal{J}_{t} (x_{h}) || + \sum_{h=1}^{N} \mathcal{M}_{h}^{(H)} / \langle t \cdot || y_{h} = \mathcal{J}_{t} (x_{h}) || + \sum_{h=1}^{N} \mathcal{M}_{h}^{(H)} / \langle t \cdot || y_{h} = \mathcal{J}_{t} (x_{h}) || + \sum_{h=1}^{N} \mathcal{M}_{h}^{(H)} / \langle t \cdot || y_{h} = \mathcal{J}_{t} (x_{h}) || + \sum_{h=1}^{N} \mathcal{M}_{h}^{(H)} / \langle t \cdot || y_{h} = \mathcal{J}_{t} (x_{h}) || + \sum_{h=1}^{N} \mathcal{M}_{h}^{(H)} / \langle t \cdot || y_{h} = \mathcal{J}_{t} (x_{h}) || + \sum_{h=1}^{N} \mathcal{M}_{h}^{(H)} / \langle t \cdot || y_{h} = \mathcal{J}_{t} (x_{h}) || + \sum_{h=1}^{N} \mathcal{M}_{h}^{(H)} / \langle t \cdot || y_{h} = \mathcal{J}_{t} (x_{h}) || + \sum_{h=1}^{N} \mathcal{M}_{h}^{(H)} / \langle t \cdot || y_{h} = \mathcal{J}_{t} (x_{h}) || + \sum_{h=1}^{N} \mathcal{M}_{h}^{(H)} / \langle t \cdot || y_{h} = \mathcal{J}_{t} (x_{h}) || + \sum_{h=1}^{N} \mathcal{M}_{h}^{(H)} / \langle t \cdot || y_{h} = \mathcal{J}_{t} (x_{h}) || + \sum_{h=1}^{N} \mathcal{M}_{h}^{(H)} / \langle t \cdot || y_{h} = \mathcal{J}_{t} (x_{h}) || + \sum_{h=1}^{N} \mathcal{M}_{h}^{(H)} / \langle t \cdot || y_{h} = \mathcal{J}_{t} (x_{h}) || + \sum_{h=1}^{N} \mathcal{M}_{h}^{(H)} / \langle t \cdot || y_{h} = \mathcal{J}_{t} (x_{h}) || + \sum_{h=1}^{N} \mathcal{M}_{h}^{(H)} / \langle t \cdot || y_{h} = \mathcal{J}_{t} (x_{h}) || + \sum_{h=1}^{N} \mathcal{M}_{h}^{(H)} / \langle t \cdot || y_{h} = \mathcal{J}_{t} (x_{h}) || + \sum_{h=1}^{N} \mathcal{M}_{h}^{(H)} / \langle t \cdot || y_{h} = \mathcal{J}_{t} (x_{h}) || + \sum_{h=1}^{N} \mathcal{M}_{h}^{(H)} / \langle t \cdot || y_{h} = \mathcal{J}_{t} (x_{h}) || + \sum_{h=1}^{N} \mathcal{M}_{h}^{(H)} / \langle t \cdot || y_{h} = \mathcal{J}_{t} (x_{h}) || + \sum_{h=1}^{N} \mathcal{M}_{h}^{($$

7.
$$g(x) = 2 \implies g(x_n) = 2$$

 $\min_{N} \frac{1}{N} \sum_{n=1}^{N} ((y_n - y_n))^2 = \min_{N} \frac{1}{N} \sum_{n=1}^{N} ((y_n - 2))^2$

$$\frac{\partial \overline{\mathcal{E}}}{\partial \eta} = 0 \implies \frac{1}{N} \stackrel{\mathcal{U}}{\underset{n=1}{\overset{N}{\rightleftharpoons}}} 2 (y_n - i \eta) \cdot (-i) = 0 \implies \eta = \frac{1}{2N} \stackrel{\mathcal{U}}{\underset{n=1}{\overset{N}{\rightleftharpoons}}} y_n$$

$$| \mathcal{A}| = \eta = \frac{1}{2N} \stackrel{\mathcal{U}}{\underset{n=1}{\overset{N}{\rightleftharpoons}}} y_n \qquad | \mathcal{A}| = \sqrt{2N} \stackrel{\mathcal{U}}{\underset{n=1}{\overset{N}{\rightleftharpoons}}} y_n$$

$$\begin{cases} 8, & \mathcal{E} = \frac{1}{N} \sum_{h=1}^{N} \left((Y_h - S_h) - \eta g_{\dagger}(X_h) \right)^2 \\ \frac{2z}{2\eta} = 0 \implies \frac{1}{N} \sum_{h=1}^{N} z \left(Y_h - S_h - \eta g_{\dagger}(x_h) \right) \cdot \left(-g_{\dagger}(x_h) \right) = 0 \end{cases}$$

$$\Rightarrow \chi = \eta = \frac{\sum_{k=1}^{N} g_{+}(\alpha_{k}) (\gamma_{k} - \Gamma_{k}^{(k-1)})}{\sum_{k=1}^{N} g_{+}^{2}(\alpha_{k})}$$

$$\Rightarrow \quad \chi_{h=1}^{N} \mathcal{G}_{h}^{2}(x_{h}) + \sum_{h=1}^{N} \mathcal{G}_{h}(x_{h}) \mathcal{G}_{h}^{(4-1)} = \sum_{h=1}^{N} \mathcal{G}_{h}(x_{h}) \mathcal{G}_{h}$$

$$t_{\lambda} = \sum_{n=1}^{N} \int_{n}^{A} g_{t}(\alpha_{m}) = \sum_{n=1}^{N} \left(\int_{n}^{(t+1)} + \Delta t g_{t}(\alpha_{n})\right) g_{t}(\alpha_{n}) = \sum_{n=1}^{N} g_{t}(\alpha_{n}) y_{n}$$

$$W_{i1}^{(1)} = C - 5, 1, 1, (1.1-1)$$

$$W_{i2}^{(1)} = (-4, 1 | 1 | 1 | 1)$$

$$W_{i3}^{(3)} = (-3, 1 | 1 | 1 | 1)$$

$$W_{i4}^{(3)} = (-2, 1 | 1 | 1 | 1)$$

$$W_{i5}^{(4)} = (-1, 1 | 1 | 1 | 1)$$

$$\begin{aligned} |I|, \quad e_{h} &= (Y_{h} - NNA(X_{h}))^{2} &= (Y_{h} - S_{1}^{cl})^{2} \\ &= (Y_{h} - tenh(X_{1}^{cl}))^{2} &= (Y_{h} - tenh(X_{1}^{cl}))^{2} \\ \end{aligned}$$

$$\frac{\partial e_n}{\partial w_{ij}^{(l)}} = -2 \left(Y_n - \tanh(x_1^{(l)}) \right) \tanh(x_1^{(l)}) \left(X_i^{(l-1)} \right)$$

$$\frac{2e_{n}}{2w_{ij}^{(l)}} = \frac{2e_{n}}{2S_{j}^{(l)}}, \frac{JS_{j}^{(l)}}{2w_{ij}^{(l)}} = S_{j}^{(l)}(X_{i}^{(l-1)}) \qquad (|s| < L)$$

$$f_{j}^{(l)} = \sum_{k} S_{ik}^{(l+1)}(w_{jk}^{(l+1)}) (tanh(S_{j}^{(l)})) \qquad (|s| < L)$$

$$w_{ij}^{(l)} = 0 \quad \text{Id}_{ik} \text{Re}_{ik} \text{Re}_{ik$$

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