

$$\begin{aligned}\frac{\partial e}{\partial h_{i,j}} &= \sum_{k=1}^{n_{i+1}} \frac{\partial s_{i+1,k}}{\partial h_{i,j}} \frac{\partial h_{i+1,k}}{\partial s_{i+1,k}} \\ &= \sum_{k=1}^{n_{i+1}} w_{j,k}^{i+1} \sigma(s_{i+1,k}) (1 - \sigma_{i+1,k})\end{aligned}$$