7/16/2019 OneNote

Monday, July 15, 2019 12:19

$$L_{ii}' = \left(\sum_{i'=1}^{n} W_{ii'}\right) - W_{i,i'} \qquad f_{i'} \qquad i = i'$$

$$- W_{ii}' \qquad f_{i'} \qquad i' = i'$$

$$\alpha L \alpha^{T} = \left( \sum_{i} \alpha_{i} L_{i,0} , \sum_{i} \alpha_{i} L_{i,1} ... \sum_{i} \alpha_{i} L_{i,n} \right) \alpha^{T}$$

$$= \alpha_{o} \sum_{\alpha_{i}} L_{i,0} + \alpha_{o} \sum_{i} \alpha_{i} L_{i,1} + ... + \alpha_{n} \sum_{i} \alpha_{i} L_{i,n}$$

$$= \alpha_{o}^{2} L_{o,0} + \alpha_{i}^{2} L_{i,1} + ... + \alpha_{n}^{2} L_{n,n}$$

$$+ \alpha_{o} \alpha_{i} L_{o,1} + ... + \alpha_{o} \alpha_{n}^{2} L_{o,n}$$

$$\vdots$$

$$= \alpha_{0}^{2} \left( \sum_{i} W_{i,i} - W_{i,i} \right) + \alpha_{i}^{2} \left( \sum_{i} W_{i,i} - W_{i,i} \right) + \dots + \alpha_{0} \alpha_{1} L_{0,1} + \dots + \alpha_{0} \alpha_{n} L_{0,n}$$

$$= a. \left( (a.-a.) W_{0,1} + (a.-a.) W_{0,2} + ... (a.-a.) W_{0,n} - a. W_{0,0} \right)$$

$$\vdots$$

$$an (an-a.) W_{n,0} + ... + (an-a.) W_{n,n+} - a. W_{n,n}$$

$$W(\mathcal{A}\mathcal{A}\mathcal{A}\mathcal{A}) - \sum_{(i,j,i+1)} (a_{i}-a_{i})^{2} W_{i,j} - \sum_{i=1}^{n} a_{i}^{2} W_{i,i}$$

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