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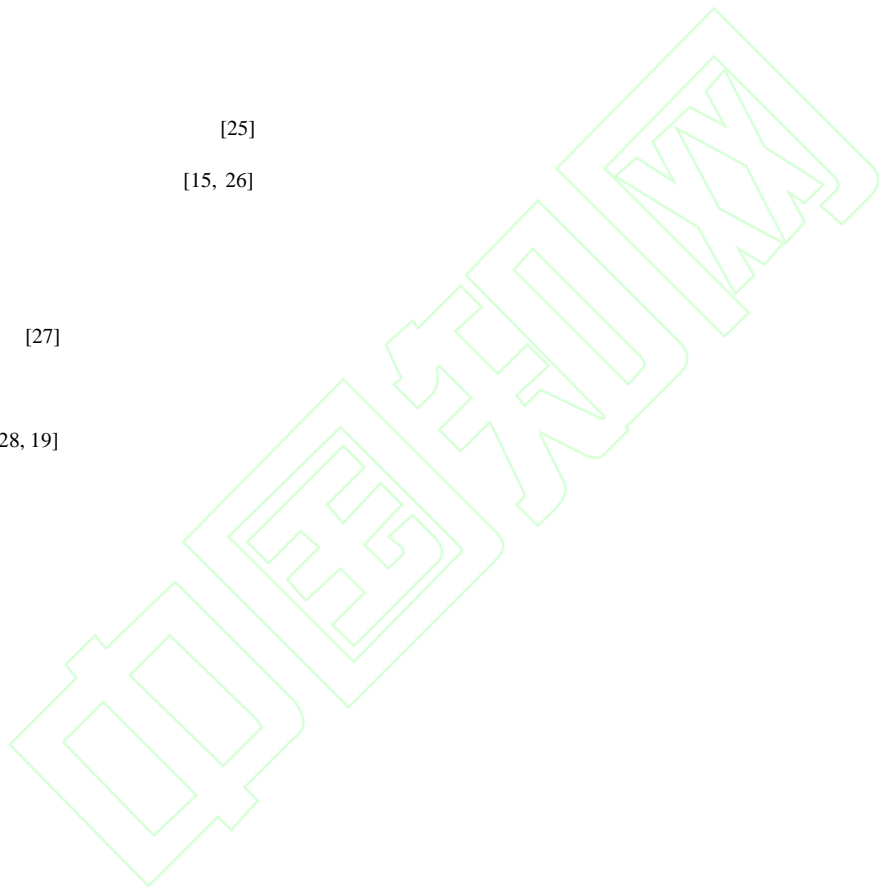
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$$d_i^{in} = \sum_{j \neq i} x_{j,i}(e_{j,i} \in Ed)$$

$$s_i^{in} = \sum_{j \neq i} w_{j,i}(e_{j,i} \in Ed)$$

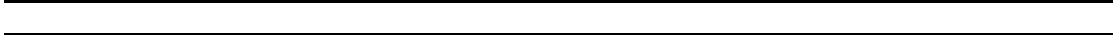
$$d_i^{out} = \sum_{j \neq i} x_{i,j}(e_{i,j} \in Ed)$$

$$s_i^{out} = \sum_{j \neq i} w_{i,j}(e_{i,j} \in Ed)$$

$$b_i = \sum_{j, g \neq i} \frac{n_{j,g}(i)}{n_{j,g}}, n_{j,g}$$

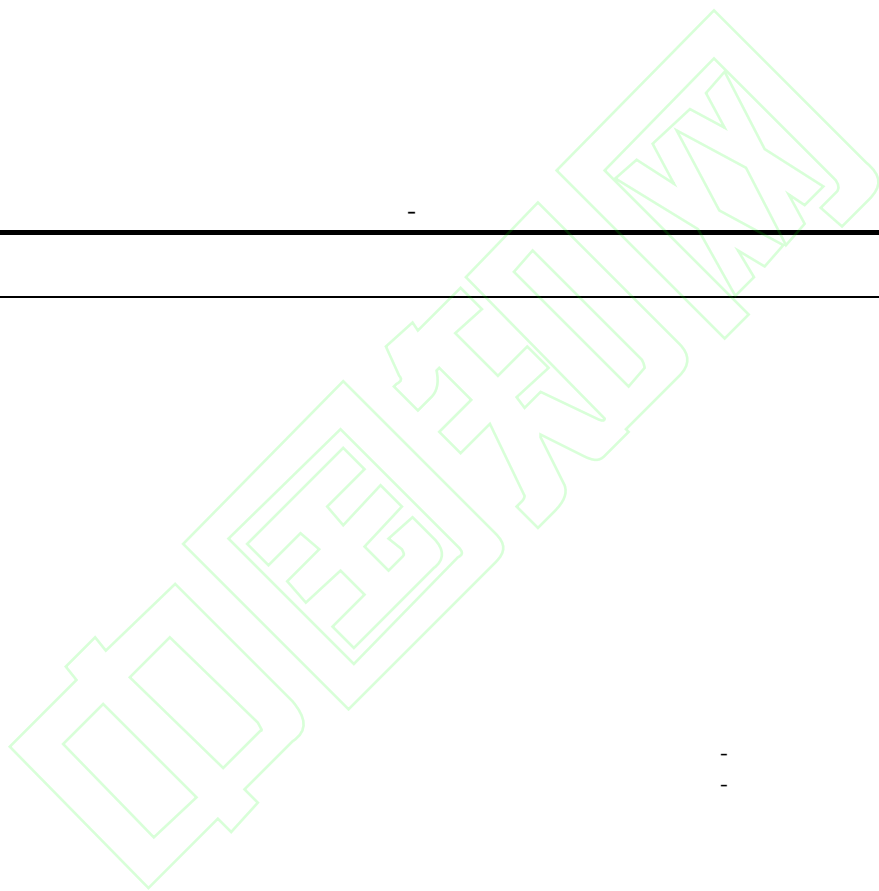
$$\begin{matrix} j & g & & n_{j,g}(i) \\ j & g & i & \end{matrix}$$

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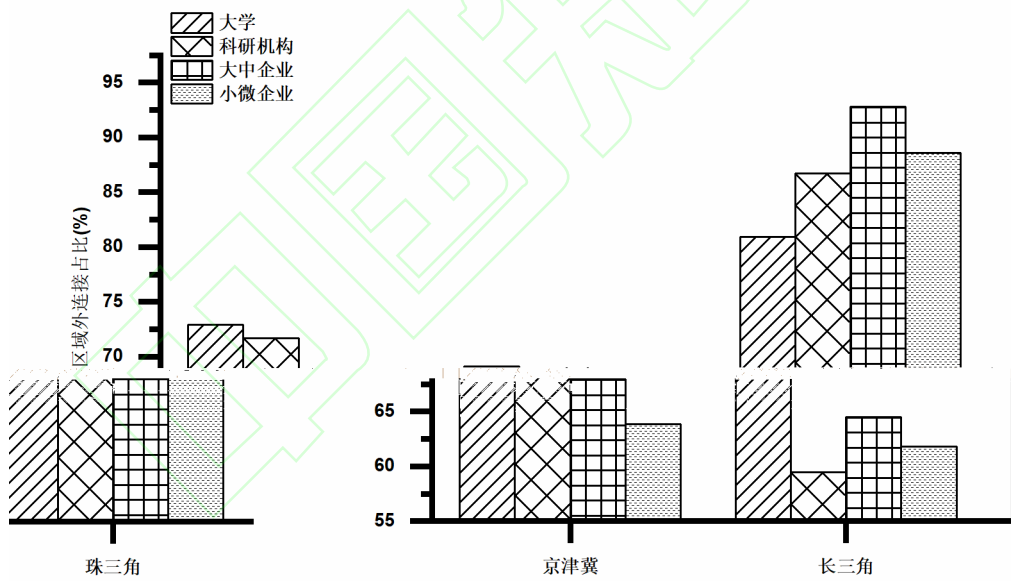




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