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$$\begin{aligned}
 d_i^{in} &= \sum_{j \neq i} x_{j,i}(e_{j,i} \in Ed) \\
 s_i^{in} &= \sum_{j \neq i} w_{j,i}(e_{j,i} \in Ed) \\
 d_i^{out} &= \sum_{j \neq i} x_{i,j}(e_{i,j} \in Ed) \\
 s_i^{out} &= \sum_{j \neq i} w_{i,j}(e_{i,j} \in Ed)
 \end{aligned}$$

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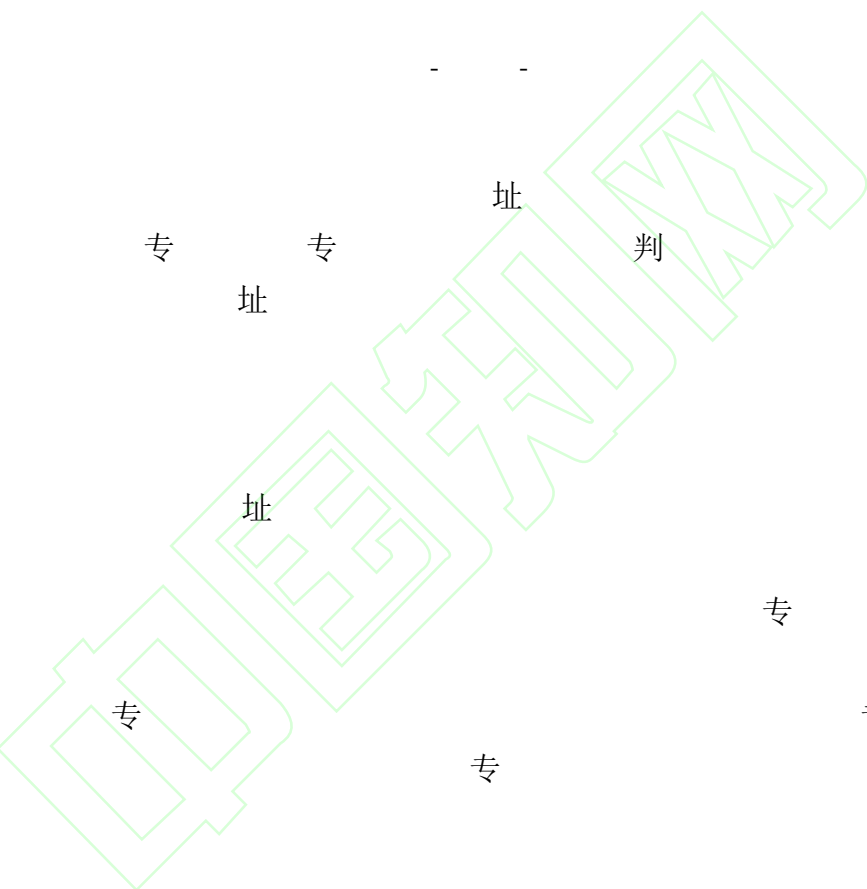
$$\begin{aligned}
 b_i &= \sum_{j,g \neq i} \frac{n_{j,g}(i)}{n_{j,g}}, n_{j,g} \\
 &\quad \begin{matrix} j \text{ 利 } g \\ j \text{ 利 } g \text{ 不 } i \end{matrix} \quad n_{j,g}(i)
 \end{aligned}$$


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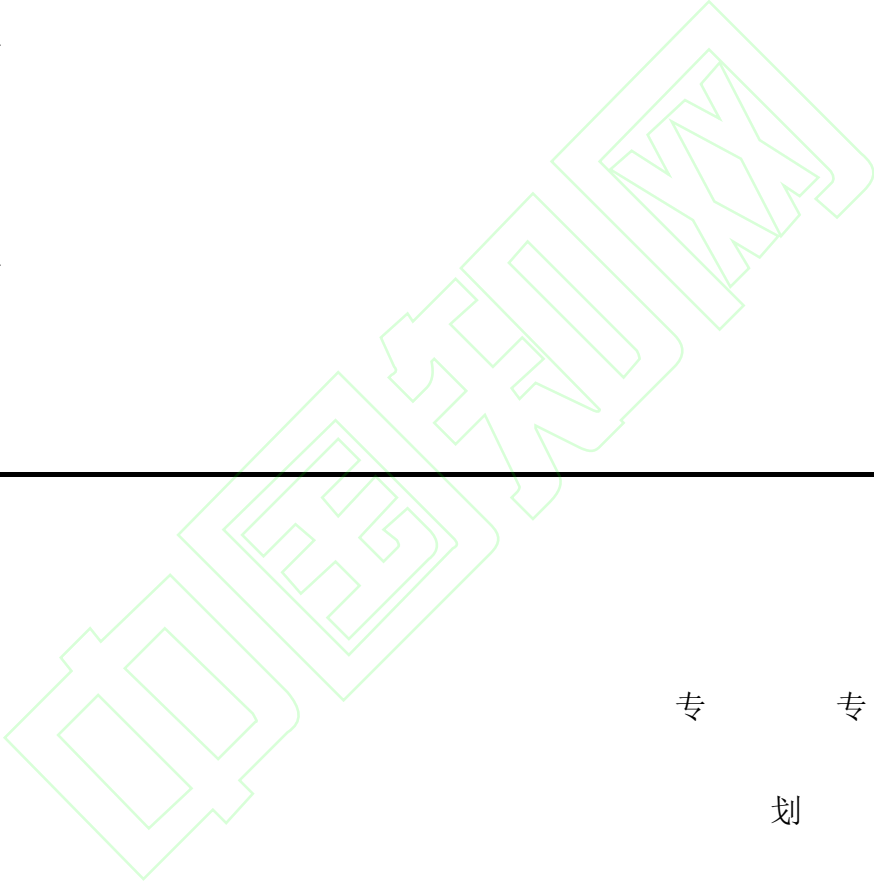
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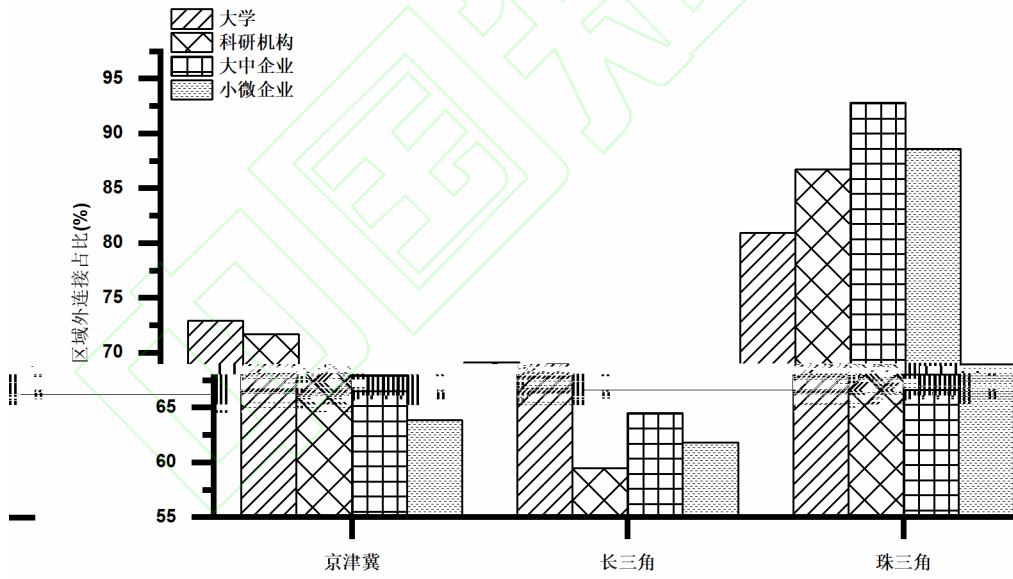
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