

Note on binding of an association particle to semantic particles

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Primitive semantic particles

Let us consider two primitive semantic particles - V_i and V_j connected through association particle $A_{i,j}$.

$V_i \text{---} A_{i,j} \text{---} V_j$

The primitive particles V_i and V_j are represented by their property signatures \mathbf{p}_i and \mathbf{p}_j . The association link $A_{i,j}$ is represented with its association matrix $\mathbf{a}_{i,j}$ and semantic significance vector $\mathbf{w}_{i,j}$.

The association matrix has the following structure: