

Substitution, Unification and The Unification Algorithm

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In the report the unification algorithm for the formulae of \mathcal{T} -logic has been constructed. Some basic notes: The substitution, The composition of a substitution, unification, a unifier and the most general unifier are introduced. Also, The set disagreement of some nonempty set \mathbf{W} are obtained and the following theorem is proved.

Theorem: If \mathbf{W} is finite nonempty unification algorithm will always terminate at step 2 and the last σ_k is a most general unifier for \mathbf{W} .