Deskreptive Programmierung

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SS 15

Blatt 9

Aufgabe 43

- ullet Herbrand-Universum $(H_U) := \{ ext{frankfurt, san_francisco, chicago, honolulu, maui} \}$
- ullet Herbrand-Basis $(H_B):=\{ ext{connection(x,y)}\mid ext{x,y}\in H_U \} \cup \{ ext{direct(x,y)}\mid ext{x,y}\in H_U \}$
- Kleinstes Herbrand-Modell := {connection(x,y) | (x,y) $\in A$ } \cup {direct(x,y) | (x,y) $\in A_{direkt}$ }
 - $-A_{direkt} := \{(frankfurt, san_francisco), (frankfurt, chicago), (san_francisco, honolulu), (honolulu, maui)\}$
 - $A_{indirekt} := \{ (frankfurt, honolulu), (frankfurt, maui), (san_francisco, maui) \}$
 - $-A := A_{direkt} \cup A_{indirekt}$

Aufgabe 44

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T_{P}(\emptyset) = \{female(juliet), female(petra), parent(juliet, petra), parent(juliet, paul) \\ parent(petra, harry), parent(harry, luke), parent(luke, tom)\} \\ T_{P}(T_{P}(\emptyset)) = T_{P}(\emptyset) \cup \{sister(petra, paul), grandmother(juliet, harry), grandmother(petra, luke)\} \\ T_{P}(T_{P}(T_{P}(\emptyset))) = T_{P}(T_{P}(\emptyset)) \cup \{aunt(petra, harry), ancestor(juliet, harry), ancestor(petra, luke)\}
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Aufgabe 45