Management Decision Models

BLOCKS WORLD, DECISION-MAKING

Example problem:

Term representation:

Strategy I: direct transformation of non matching relations

Move(b Onto c) fails

Strategy II: find out what can be Moved (find all true preconditions)

Move(a Onto x), Move(c Onto x)

have to select one, many possible places indicated by "x", search

Strategy III: Level maps terms onto normalized terms

Level(term):

pre: $(x \ 0n \ y)$ and (y =/= T)

act: Move(x Onto T)
until: all x: (x On T)

Management Decision Models

Strategy IV: Build from Level maps normalized terms onto term template

Construct(new From old):

pre: level(old)

act: when $(x \ On \ y)$ in new, Move $(x \ Onto \ y)$

until: new

Strategy IVa: Order introduces new concept, an Ordered Term

Order(term):

when (x On y) and (y On z), Move(y On z) then Move(x On y)

Note: apply Move to (y On z) first

Strategy V: Stack, is an ordered term

Subdivide entire term into ordered stacks

[(a On b) (b On T)] [(c On T)]

Now, Move applies only to first item in each stack