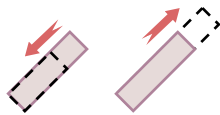


Transformation

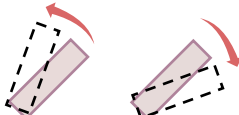
• Extension



$-\Delta l$

$+\Delta l$

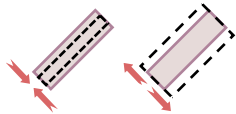
• Rotation



$-\Delta\theta$

$+\Delta\theta$

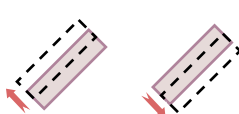
• Expansion



$-\Delta w$

$+\Delta w$

• Translocation

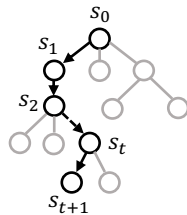


$-\Delta x$

$+\Delta x$

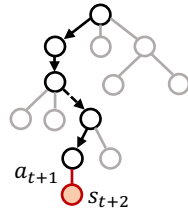
Repeats for n times

Selection



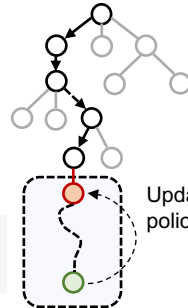
Select node
with UCB strategy

Expansion



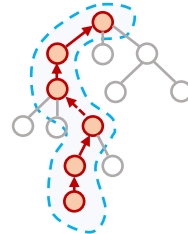
Expand new node
with progressive widening

Simulation



Value Gradient
Estimation

Backpropagation



Update information for trajectory