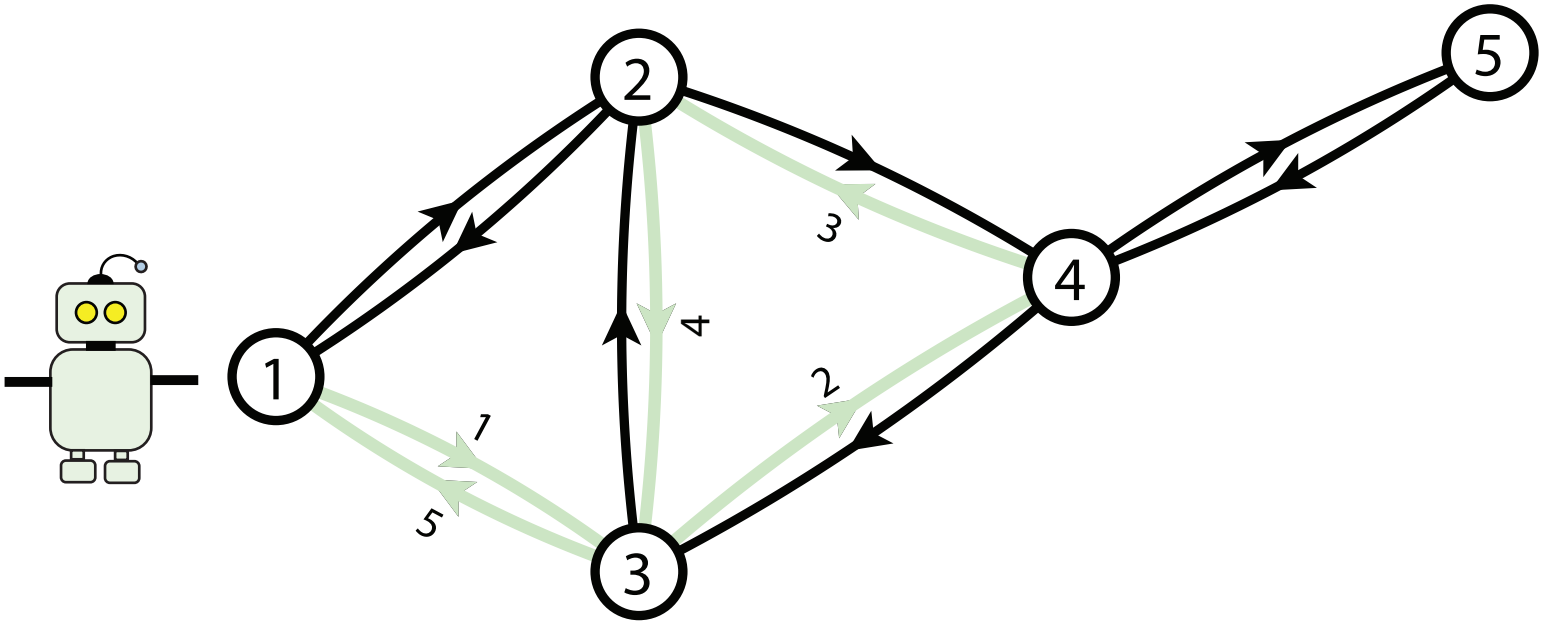

trail plan

$\rho = (1, 3, 4, 2, 3, 1)$

probability robot visits 2nd node in planned trail

$\pi[S_2(\rho) = 1] = \omega(1,3)\omega(3,4)$

indices of trail for planned visits to node 3

$\theta_3(\rho) = (1, 4)$

probability robot visits node 3 *t* times

$$\pi[T_3(\rho) = t] = \begin{cases} 1 - \omega(1,3) & t = 0 \\ \omega(1,3)[1 - \omega(3,4)\omega(4,2)\omega(2,3)] & t = 1 \\ \omega(1,3)\omega(3,4)\omega(4,2)\omega(2,3) & t = 2 \end{cases}$$