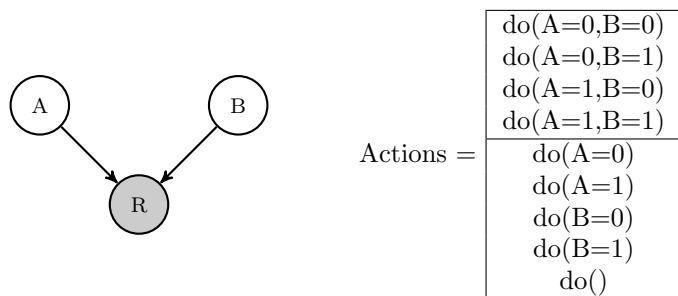


Figure 1: A simple causal graphical model and corresponding action space



$$\begin{aligned}
 P(R|do(A = 1)) &= P(R|A = 1) \\
 &= P(R|A = 1, do(B = 0))P(B = 0) + P(R|A = 1, do(B = 1))P(B = 1)
 \end{aligned} \tag{1}$$