$(P^{V|W}, A)$
$\alpha \in$
A
A
P
${}_e xtended_2 017 extended\ conditional\ independence, which is a notion they define with respect to a Markov kernel. These concept$
$A^* =$
$A \circ$
V
$B^* =$
$B \circ$
V
$C^* =$
$C \circ$
V
(A, B, C)
V
$D^* =$
$D \circ$
$W E^* =$
$E \circ$
W
W
$W =$
(D^*, E^*)
P_α^W
W
$w \in$
$W(\Omega) P_\alpha^W(w) >$
0
${}_{P,ext}$
$P_\alpha^{VW} :=$
$P_\alpha^W \odot$
$P^{V|W}$
${}_{P,ext}(B, D)|(C, E) \iff$
$A^*_{P_\alpha}(B^*, D^*)|(C^*, E^*)$
${}_{P_\alpha}$
$A^* =$
$A \circ$
V
$B^* =$
$B \circ$
V
$C^* =$
$C \circ$
V
(A, B, C)
V
$D^* =$
$D \circ$
$W E^* =$
$E \circ$
W
V, W
$W =$
(D^*, E^*)
$P_\alpha^{VW} :=$
$P_\alpha^W \odot$
$P^{V|W}$
1
${}_{P,ext}(B, D)|(C, E) \iff$
$A^*_P(B^*, D^*)|(C^*, E^*)$
$A^*_{P_\alpha}(B^*, D^*)|(C^*, E^*)$
$P_\alpha^{D^* E^*}$
$P_\alpha^{D^* E^*}$
$(d, e) \in$
$(D^*, E^*)(\Omega) P_\alpha^{D^* E^*}(d, e) >$
0
??
$A_{P,ext}(B, D)|(C, E)$
β
$P_\beta^{ABC|DE} =$
$P_\beta^{DE} \odot$
$P^{ABC|DE}$
??
$P^{A|BCDE}$
${}_{\beta}^{A^* B^* C^* D^* E^*} =$
$P_\beta^{D^* E^*} \odot$
$P^{B^* C^*|D^* E^*} \odot$
$\underline{P}^{A^*|B^* C^* D^* E^*}$
$\overline{P}_\beta^{B^* C^* D^* E^*} \odot$
$\underline{P}^{A^*|B^* C^* D^* E^*}$
$\overline{P}_\beta^{C^* E^*} \odot$
$P_\beta^{B^* D^*|C^* E^*} \odot$
$P^{A^*|B^* C^* D^* E^*}$
??
α
$P_\alpha^{D^* E^*}$
(D^*, E^*)