Exercitail I : resolvate

ALIGIB (=> P(X=xA, B=xB, C=xc) = K PA,B(XA, XB) PB,C(XB, XC), HXA, YB, XC uncle A, 15 si C variable aliatoano discrete and si do sundi possible u >0 o cometanta de moumalizare

Pasul 1: imdependenta conditionata ALGIB:

: îmseammā cā dacā shim valoarea lui B, alumci Asi C devim independente, Im terment de probabilitati, aust luceu emseamma :

P(A,e/B) = 7(A/B) P(C/B)

Parel 2: probabilitatea comuna P(A,B,C)

: factorizara a probabilitati commune, Anseamma mobabilitatea ca teate variabilele nollumis isla struumans si se

P(A, B, C) = P(A|B,C).P(C|B).P(B) Regula Camtului pt. Mob. gar UTE/D

=> P(A, B, C) = P(A 1B). P(C/B). P(B)

Parul 3: factorizanea prosobilitati P(A,B,C)

Resoriem $P(A|B) = \frac{\phi_{A,B}(x_{A},x_{B})}{7}$

e de sémble commissación socialista o describe de laxas de la Bome de Bome de Bome de la ZAD eta o comstanta de mamalicara

Rescient 7(C1B) sub forma de Junctie zouhira: $P(E|B) = \frac{\phi_{BC}(x_{B},x_{C})}{7}$ eunde: Pisic (xs,xc) este o functie positiva a abscrie interactiumea climbre Bsic Zo,c este o alla constanta de moumalisare

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Pasul 4:

 $P(A,B,C) = P(A|B) \cdot P(C|B) \cdot P(B) = \frac{\phi_{A,B}(x_{A,B}x_{B})}{Z_{A,B}} \cdot \frac{\phi_{B,C}(x_{B,B}x_{C})}{Z_{A,B}} \cdot P(B)$

constantele de moumalidale & pot containa in N, a. I. avem:

 $P(A,B,C) = \frac{1}{K} \Phi_{A,B}(x_{A},x_{B}) \Phi_{B,C}(x_{B},x_{C})$, unde $K = Z_{A,B} Z_{B,C} \cdot P(B)$

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