AHMED MARARZ

HOMEWORKS 1/ Elimination des variables

X: Bl'ensenble de toutes les variets

Xo: l'enerble des variables observels

X2: 011 20 11 à masumiser

XI: X ( (X UX) variables à élimon

ngrose P(K1×1/6)= angrose P(Xx1×1/6)

magnac Tt p(Yx1Xx, Xo) & Fi()

XRX 4 AR

EXA,

2/ Double HMM

9 (2) (2) (2) (3)

9(11) = mgrax (29(17) | 2117)

P(4115 | 2117) = E (P(91) P(21/91) | P(21/91) P(21/91)

P(501/91) = P(501/91)

 $P(q_{11}|z_{1:T3}) = \sum p(q_{1})p(x_{1}|q_{1})p(y_{1}|q_{1})p(y_{1}|q_{1})$   $S(x_{1}|z_{1})$   $S(x_{1}|z_{1})$  $S(x_{1}|z_{1})$ 

= \(\frac{2}{p(g\_i)}\p(\frac{1}{p(g\_i)}\p(\frac{1}{p(g\_i)}\fra

P(q) = p(q) p(x/q) T p(q, |q, |q)  $Q_{177}^{*} = ag_{nex} p(q, |q, |q) q_{177}^{*} p(q, |q, |q, |q) p(x/q)$   $Q_{177}^{*} = ag_{nex} p(q, |q, |q) q_{177}^{*} q_{177}^{*} (viterly)$ 



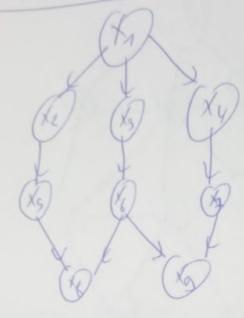
or olbat cet abe 3/refrais les calculs 1- Formard bechinned come passage de mesage Or suppose Si etd Q: observato P(Se10(1:33) & P(0:0) Se) P(3/52) p(9,15) {)- p(s,) p(0,1s,) p(s,1s,1) m(s,) p(3/82)-p(3/82) p(3/8) m(S2) H(2/4133) x (2/3/2) (2/3/2) (2/3/2/2) Formand - hachmand (5) passage de mersage

4/ opplication In JTA (1) 1- ale Le jordia p(x,x, /2 tr) = g(x, x) Q(x, h) g(x, x) Q(x, x) E 94 = m (x2) = [(2) 2 9, 9 9, = m (x) = f(x) Non P(YN) = ( F(XN) + f(Xx))/2 dox 5= { b1(x) bi(x) 5/ application de JTA(2)

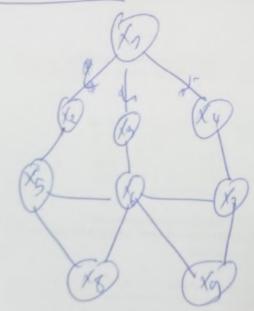
0

(5)

1. le verean bayenin



2. grupe moralise



3- grafe trionzalouro

