

To meghene yntox-9 p(xi) = p(xi, yi) P(\frac{\chi}{\chi})=\frac{1}{3}; P(\frac{\chi}{\chi\_2})=\frac{1}{2}; P(\frac{\chi}{\chi\_3})=\frac{1}{3} P(\frac{\text{X2}}{\text{Y1}}) = \frac{1}{3}; P(\frac{\text{X2}}{\text{Y2}}) = 0; P(\frac{\text{X2}}{\text{Y3}}) = \frac{1}{3} P(\frac{\times\_3}{\times\_1}) = \frac{1}{3}; P(\frac{\times\_3}{\times\_2}) = \frac{1}{2}; P(\frac{\times\_3}{\times\_3}) = \frac{1}{2} => H(X/Y) = ZZ p(Xi, Yi) log2 p(Xi/Yi) = 1,43 Anaromeno H(Y/X) = 1,43 Inmponus obsegunerius: H(X,Y) = H(X) + H(Y|X) = 1,57 + 1,43 = 3BJAUMHA9 WHQ-9 BENYWH X 4 9: I(X,Y) = H(X) - H(X/Y) = 0.14Ombern: 1,57; 1,57; 1.43; 1.43; 3; 0.14 @ Dano: P(Y1X) = (0.88 0.01 0.1 0.2 0.45 0.3 0.15 0.5 /

Haumu: 1) cpee. KON-60 UHER-YUU, NEPEHOUMDE 1-UM
cumbonom, ecnu p(x.)=0.7, p(X2)=0.2, p(X3)=0.1; 2) reny pabries une. nometin non neperare coosy-9 y 1000 cumborob X1, X2, X3; 3) WN-60 normanmon cure-yny; Jemenue-Энтропия источника соббщений: H(X) = - Zi=1 piloppi = - (0.7 logo.7+0.2 log. 02+ +0.16go.1) = 1.16 Sum USWAA YEROBHAA ƏHMYONUA: H(Y1X) = [ = [ 31 B(X:, Yi) log2 p(y; 1xi) = = = = = p(xi)p(Xi)log2p(Xi) H(Y1X) = -0.7[6.28.6920.88+0.0160820.01+ +0.0160p20.01)+0.2.(0.160p20140.7560p20.75+ 0.1560p20.15)+0.1(0.260p20.2+0.360p20.3+260p20.5)[50.4

Omben: 1.165um, 0.4735um
3 DQ40:
H(X) = 3400 Sum
H(X1Y) = 700 Sum
Glaumu: H(S1X)
Bernethue:
BEAUMHIAG UHOGOJMAYUR UCMOTHUMO Woodyerius:
1(X,Y) = H(X) - H(X Y) = H(Y) - H(Y X)
1(X,Y)=H(X)-H(X/Y)=3400-700=2700 Sut
Himponus myra H(Y1X):
H(Y/X) = H(Y) - 1(X,Y) = 6800 - 2700 = 4100 Su
Omben: 4100. Sum
AND HAND STREET, STREE

(9) DOHO: P(X1,41) = 0.73 P(X1, 42) = 0.21 8(X2,41)=0.02 P(X2, 42) = 0.04 Stadmi. KON-60 uneopmayur o QAJO-bor cebure currière, Jemenne: Chechee kon-bo and you o spajobom cobu re how upbecome annumy se Hex, y) = = 444)-H(Y(X), P(y1)=P(X1,y1)+P(X2,y1)=0.75 p(y2) = p(x1, y2)+p(x2, y2) = 0.25 H(y) = - Ep(yi) logep(yi) = 0.81 Sum  $p(x_1) = p(x_1, y_1) + p(x_1, y_2) = 0.84$   $p(x_1) = p(x_2, y_1) + p(x_2, y_2) = 0.06$ To megene ynthometin ((Xi) = P(Xiyi)

B(7.1x1) = 0.78 Q(y1/X1) = 0.22 B(Y2/X2) = 0.67 P(4.1x2) = 0.33  $H(3(X) = \sum_{i=1}^{N} \sum_{j=1}^{M} p(X_i, y_i) log_2 p(y_i | X_i) =$   $= 0.73 log_2 f_{i,1} + 0.21 log_{i,2} + 0.02 log_{2} 0.33 +$ +0.04 602 0.67 1(9,X)=H(y)-H(y/X)=0.04 Sum Ouben: 0.04 Sut