CS 4371 HW5 1. d(AsB) = J(x8-x4) - (Y8-Y4) 2 d(1,2) = J(2-2) 2+(5-10) = J25 12345678 0 523 536 JIS JOS JS () 57287555 JOJZO 2 3 () JIG JE JE JE3 JE1 4 1) JIS JO JS2J2 9 () 52545 JZS D529 J29 (7 0 558 Sud->5 Charter 1 (SI); A2 = C2,5) auster 2(52) : A4 = (5,8) Clush 3 (S3); A8 = (4,9) Al: d(Al, S1) = TES d(Al, S2) = JT3 d(Al, S3) = J5 Clist 2 (SZ) AZ: d(AZ, SI) = 0 (SI=AZ) d(AZ, SZ)= JT8 d(AZ, SZ) = JZO duster 1 (51) A3: 1(A3, S1) = 57 1(A3, 52) = 525 1(A3, S3) = J41 (MX 2 (52) A4: d(A4,51) = 518 d(A4,52) = 513 (SZ=AL) d(A4,53) = JZ Clash 3 (53) A5: J(A5,50) = J2: J(A5,52) = J73 J(A5,53) = J25 Club 2 (52) Abid (Ab, S1) = JI7 d(Ab, S2) = JI7 d(Ab, S3) = JZ9 Claster In 2 CSI and S2 close) A7. 1(A351) = JIO 1(A3,52) = J52 1(A3,53) = J58 Cluster 1 AY: d(A8,51) = 520 d(A8,52) = JZ d(A8,53) = O (53=A8) Master 3 (53)

Kenan Struckic

$$3. r51 = \frac{5un(xY) - 5un(x) sum(\frac{y}{n})}{5um(x^{2}) - \frac{5un(x)^{2}}{5um(y^{2})} - \frac{5um(y^{2})}{5um(y^{2})}}$$

$$= \frac{(45) - (32)^{2}}{5} = \frac{(24)^{2}}{5} = 0.948$$

$$15er 6: r = 0.948$$

$$15er 6: r = 0.923$$

$$15er 4: r = 0.399$$

$$0.971. V = 0.918$$
 $0.976: V = 0.923$
 $0.986: V = 0.399$
 $0.986: V = 0.399$

$$S_{im}(2,5) = 65$$
 $J_{57} \times J_{85}$
 $Product 1: 0.404$
 $Product 2: 0.866$
 $N = \{5,1\}$
 $Prod(5,2) = 25:n(2i)rij(15:m(2,i)) = \frac{0.4049 + 0.866 \times 5}{10.4041 + 10.8661}$

$$N=71,6,47$$

$$pred(5,2) = \frac{v51_{x}1+v56_{x}6+v54_{x}4}{|v511+v56|+|v54|}$$

$$= \frac{v.9488+0.928+0.3995}{0.443+0.928+0.399} = 7$$