

Bi-partite Networts Bij = \ o, if vertex j belongs Directed network to graupi Aij= { 1, if there is edge from J to i of herwise } P=BT.B -> diagonal element P'= B. BT Pagerank Xi=J. \(\frac{\text{Xs}}{\text{Love} + B}\) Lloseness centrality fi= 1 } dis Pi= 1 \ dis mean geodesic dis. Clustering coefficient C= #of closed paths of length 2 (#of triangles) x6

#of poths of length2 #of paths of length Hof paths of length 2 Ri of vertex local clustering clusterin coef. for netw. Ri= (0+1+2+1) Ci= Ri Ei-1 A. ZCI 2 Redundancy Confidence Interval degre of X = 1 EX; vertex i Random graphs N-) # of vertices M) # of edges $5^2 = \frac{1}{n-1} \stackrel{?}{\geq} (x_i - x_j)^2$ (K) = (n-1).p=c avg. dee varience) CM) = (2). P X = 0 Vol2 P(K)= (n-1). PK(1-p)n-1-K Fraction of vertices insignt; 5=1-e-LS TLS-prop. of random chosen vertex Diometer: | Llustering coef: belongs to a compn. Size s The sizes $C = \frac{2}{n-1}$ INC