D.C.

And C. wath Equilibrian

— It stated where no player can benefit by

uni laderly changing their Stratogy, additioning all

other players are holding their Stratogies constant.

B. Assorbable Missing.

- The tendency of nodes in a network to connect with other nodes that have Similar sharacteristics.

D. Because it quantified how offen a node lies on the Hortest paths between other nodes.

(hubs) that Maindow consectivity.

A. The number of indra-community edges is significally higher than expected in random network with the Source Legree Sequence.

Y: A, B, C.P Y: C, P, E.

> AUB = XUY25 ABB XNY22

Jobcard Cofficient = 35

B:235

A. Secre uses edges probabilities independently: LTM uses a weighted Sure of active neighbors conferred to a node threshold.

B. Because aggrigading features from dissiriler neeighboard saw blur the nodes own suprentative features, retiring slassification order.

O vaccination Strategy asing reteat analysis

a. Betweeneds contrality - bet helps to identify

nodes that and as brings between different

connectives. Nese nodes opten lie on the

Startest paths between vary pairs of nodes

and contral the place of the infection between

Afterest parts of the nedwards.

I percent parts of the nedwards.

I percent parts of the nedwards.

The Pagnee autrolity - but helps to identify

High degree rodes that have many connections and

high resembled to spread the virius.

Ma. The core idea behind Gistone - New Man algasisting is to identify connecuided in anotwark by interestively screening edges with high betweenums controlisty audil the nedwork brooks Lown into Smaller, well defined groups. Betweeneld controlidy reduced how after a node had on the started path between other roded in a national. - Sthelps to calculate between rests controlly for all edges in the redwarts.

- Revery the edge with highest betweeness whally Moder compartational limitation of Girwan was dans algorithms is sets ligh computational complainty. - For a redwork 1 rodes & on adjes will about the with come die. - Mis calculation realt be superted after reasoning for large redwarks with thousands / phillians of raches 2 ddges.

For opdisizing redularity through.

- local optimized on - St Steels by assigning each ride to its own community. How iterated moves individed modes to communities that result in the largest increse in ocalularity

- Hierarch'al Agrigadon - St creaded new network
where noded are the conseculables found in perusons stope.

- Extendion on Reduced retwork - St repeals the prices
on this sold ar network pollowing it to Lebert
Muldilevel conseculty strander.

Da page Rank Algorithm

- Endotion behind page-Ronk is based on the idea that the popularity of a verbpage is Later ruled not only by the namber of incoming hintes but also by the Kind of incomings bliks. but also by the Kind of incomings bliks. I have blown from highly ranked pages contracted ranked pages.

Darping factor (4) represents the probability that
the random Surfer will follow our redging with
stather than randomly teleporting to another
page.

5.6 problems with Daughing rodes.

- Paughleg nodes create a leak in page hank challe. - Et coles al page hand values to approach zero.

6 Guden pyoff Matrix

	Strategy-A	Strategy-B
Strategy-U	(3,2)	Corll
Strotegy-L	(2,0)	(2,3)

6.9 pure Strategy

(U,A) - plager-1 gets 3, plager 2 get 2

(U,B) - plager 1 gets 0, plager 2 gets 1

(U,A) - plager 1 gets 2, plager 2 get 0

(U,A) - plager 1 gets 1, player 2 gets 3

FEB] = Px1 + C1-P) x3 = P+3-3f = 3-2f

6.0

Expected oatable of prot EEAT= 2p= 2x0.7 = 1.9 EEBT=3-2f=3-2x0.7=1.6 weighhood of B N(B) = SA, C, DS Cuben federe vedoes ha" [3], ho = [3], ho = [2] Find overage of herbial feature vertours. LNCB) 2 3 (hA+ ho+ ho) 2 5/2/1 + [3] + [2] 2 /3 (3) 2/2 Guban Weight Matrist N 2 [0.5 0] Wxhv(B) 2 /0.1 0-2 [2] 2 TO 5x1+ 0x2 T 2 05+0 05/