

#2	3	
	11)	Similarity Measure for Vector
	6	to measure direction of vector (up & down).
		we use property of cosine. I inner product.
		$\cos(0^\circ) = 1  \cos(90^\circ) = 0$
		$A = (a_1, a_2, \dots, a_n)$
		B=(b1. b2 bn).
		A.B=   A   ×    B   × cos D.
	Day	Where $  A  = \sqrt{a_1^2 + a_2^2 + \dots + a_n^2}$ , $  B   = \sqrt{b_1^2 + b_2^2 + \dots + b_n^2}$ (L2 non
	<b>( )</b>	example $A = (1.0)$ , $B = (0.1)$ .
		A.B = 1 x 1 x 0 = 0 ] -> @ Zevo Similarity
		=> Similarity-Measure. Py PEZUM
		Cos_similarity() obt2 7055101 016.
1	40	$= \frac{\sum_{i=1}^{100} Q_{1i} b_{ii} cos\theta}{\sum_{i=1}^{100} Q_{ii}} = \frac{\sum_{i=1}^{100} Q_{ii}}{\sum_{i=1}^{100} Q_{ii}} = \frac{\sum_{i=1}^{100} Q_{ii}}{\sum_{i=1}^{100} Q_{ii}}$

#4 (TV)	&76音 Scenario 1807H= 元目前吸息,
	(Output_scenario.xlsx Tho[28]).
	CF Bose = 718-63 tot- Similarity Matrix (777)=132.
	(180 × 100) Mattix 71 LLE = State Schare Mattix
	180 = #Scenario. $100 = #CF$ tems.
	世記章 宇宙州是 艾克的比 Score 3는 中等的
(V)	Anormaly Detection With Graph. Theory.
	(Guilty - By - Association) technique.
	G Malitians / Web page detection on APSIE 7/2.
	Blue Node: CF Ttem = 10074  Red Node: Scenario = 18074
	Edge: Link Blue Node & Red Node  If (Similarity # 1) = different.
	(example) Scenario expense expense ex CT Boxe
	ा उन्ना Exp Acq वेडिव्हें कीहा नी बेने थेंट्र
	= Ctep & Exp Ace = Ottet Edge.

#5 (CF Bosc = 71203 th Sim	ilarity Motrix > Shaph >
Committee of the second	Nade = 180 74 AILIZIE DEST MOLTON
Prem Exp Acq.	EV-Claim
Exp Mint Expense	RBC RBC
Pase Pase	Sop B.
Reserve	Profit!
( abnormality 71 427 75011PL	graph otal).
* Network X Itbrary 3 H	धुकेल नेजुड्री
graph. Py Itol 312 High	

#6	
(1)	How to measure Similarity among Red Node.
Established (	(180 74 KILLEL OF Matrix to THATE).
	We built directed graph G.
	and U. V represent node amony G.
	we are going to measure fred node (V) only.
	I(v) = Set of TM-neighbors node of node V.
actor Mit	O(V) = Set of out-neighbors node of node V.
	$1 \le i \le  I(v) $ , $1 \le i \le  O(v) $
	graph similarity between red node a, and red node b.
- Rem	$= S(a,b) \in [0,1].$
	$0 \le S(a,b) \le 1$ , $S(a,b) = S(b,a)$
	S(a,a) = s(b,b) = 1
(-6)	<u> </u>
	$S(a,b) = \frac{C}{ I(a)   I(b) } \sum_{i=1}^{ I(a) } S(I_{i}(a), I_{j}(b))$
8	(Where C 75 Coms importance factor constance)
	There we used C=0.9.
	G Degree Bose Approach.

