Date 18/4/2025

(402)

(2)

step 1: Population Initialization

C1= (1,3,1,2,3,2,1

[3,2,2,1,1,3,2

3,3,2,2,1,1,3

1,1,2,3,1,2,2

C5-[1,3,3,1,1,1,2

2,2,3,2,1,1,3

steps: Evaluate fitners

100000	- Committee of the Comm					-		-	-	-	
5	Chromosome	Task1	Task 2	Task3	Task4	Task5	Task 6	Task7	FI	F	F3
-	C	50	128	32	70	70	24	99	: १८	-10	8+6-14
	(2	45	112	36	84	84	30	108	746-13	\$4 21	5+3=8
	C3	45	128	36	70	84	27	117	6+3-9	=11	5+8+9=22
	Сц	50	120	36	91	84	24	108	16-16		
-	Cs	50	128	28	84	84	27		+3-21		8+4=12
1	CG	60	112	28	70	84	27	117	6+3-9	20	449=13

Fitness:

C1= 50+128+32+70+72+24+99=>475

C2-45+112+36+84+84+30+108=>499

(3=45+128+36+70+84+27+117=>507

€ Cy=50+120+36+91+84+24+108=>513

- C5=50+128+28+84+27+108=)509

C6 = 60+117+28+70+84+27+117=>49 8

Step 3: Poulette wheel selection:

The second second	The state of the s			•
		Triverse	Probability	
	Cı	Lu15=0.002105	P(C1) = 0.002105 = 0.1753	Ci & GCc fayoured
•	C	49=0.002000	P((2)=0.01203=0.1669	because of lower
	43	507 -0.001972	P(C3)=0.001973=0.1643	costs
	Cy	1513=0.001949	6(cm) = 0.0015003 = 0.1954	
	CS	509 =0.001965	P(C3) = 0.012003	2 OUALITY
9	رد	ta8=0.002008	P(CG) = 0.002008 = 0-1673	P PRODUCTS

							· 1.	/are			
Step4:Co	ossover	(Single	Point) CG-[2,2,3,	2,1,1,3	5]				
Steph: Crossover (Single Point) (c=[2,2,3,2,1,1,3] Pair1: (1:[1,3,1,2,3,2,1], Pair2: (1:[1,3,1,2,3,2,1])(=[3,2,2,1),3)									7,3		
Pair3: Co-											-
Crossover at '3': Crossover at '2': Crossover at '4':											
0, [1,3,1,2,1,1,3] 08=[1,3,2,1,1,3,) 05=[3,2,2,1,1,1,3]											
02-[2.2,3,2,3,2,1] O4=[3,2,1,2,3,2,1] O6=[2,2,3,2,1,3,2]											
Step 5: M	otation	(20-1-0)	nance	.)							-
0,-[1,3,	1,2,1,1,	37-154	sappir	g posil	tion 1	45=	>(1,1	,1,2,	1,3,	3	
3,= (2,2,3	0,2,3,2	,1		<u> </u>							
33 = [1,3,2,1,1,3,2]									-		
54= [3,2,1,2,3,2,1] -> swapping position 4 & 5=> [3,2,1,2,2,3,1]									_		
35 = [3,2,2,1,1,1,3]									_		
06=(2,2,					\						_
Step6: Fi											
offspring	Task?	Task 2	Task3	-		Task6		Fi		-3	
0,	50	120	32	76	84	30	117	23	7	12	
02	60	112	28	70	72 %U	24	a9	a	23	10	•
03	50	128	36	જુપ		30	108	18	13	11	•
Ou	45	112	32	70	78	30	99	13	21	8	0
05	45	112	36	84	84	27	117	16		10	0
Oc	60	112	28	70	84	30	108	6	20	7	
											. 0
Fitness:			-								_0
01 = 50+120+32+70+84+30+117 = 503									_		
02=60+112+28+70+72+24499 = 465											
03=50+128+36+84+84+30+108=520											
04=45+112+32+70+78+30+99 = 466											
05 = 45+112+36+84+84+27+117= 506											
06 = 60+112+28+70+84+30+106=492											
			-		-				BEN	ALITY PER	
PRODUCTS											





