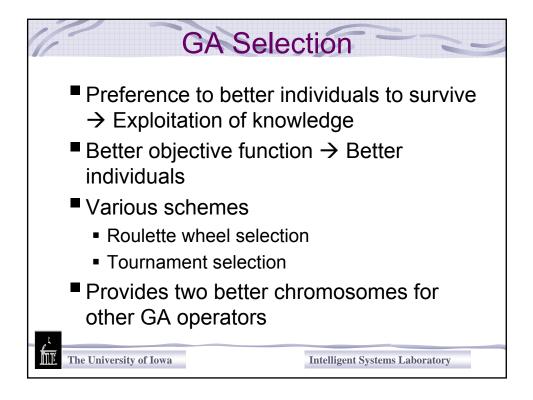
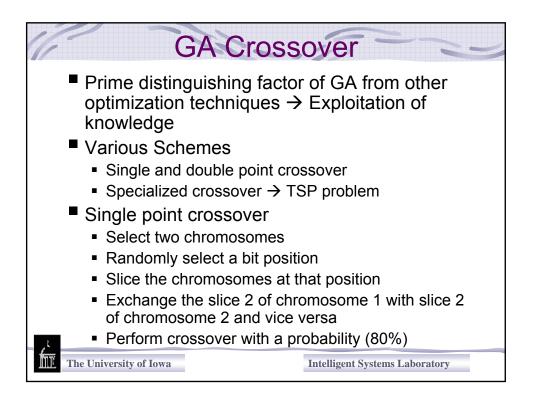
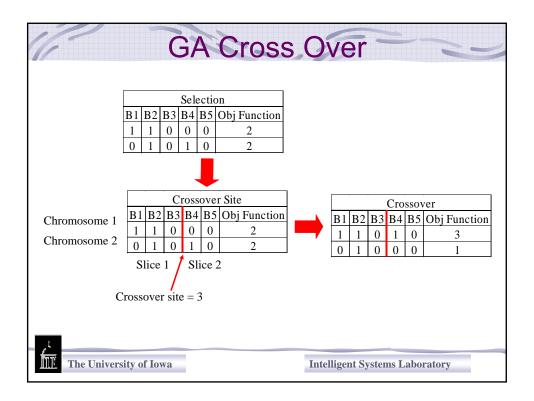
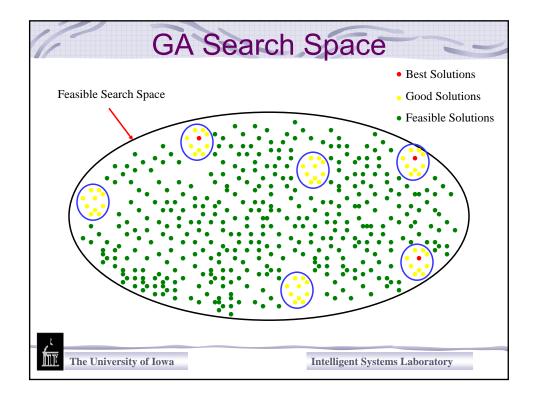


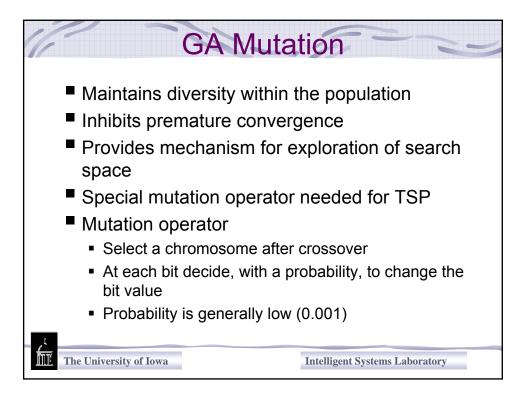
		(Gene	erati	on		
B1	B2	B3	B4	B5	Sum (Bi)	Obj Function	
0	0	0	1	0	0 + 0 + 0 + 1 + 0	1	
1	1	0	1	0	1 + 1 + 0 + 1 + 0	3	
0	1	0	1	0	0 + 1 + 0 + 1 + 0	2	
1	0	1	0	1	$1\!+\!0\!+\!1\!+\!0\!+\!1$	3	
1	0	0	0	0	1 + 0 + 0 + 0 + 0	1	
1	1	0	0	0	1 + 1 + 0 + 0 + 0	2	
0	1	0	0	0	0 + 1 + 0 + 0 + 0	1	
0	1	0	0	1	0 + 1 + 0 + 0 + 1	2	
1	0	0	1	1	1 + 0 + 0 + 1 + 1	3	
1	1	0	0	1	1 + 1 + 0 + 0 + 1	3	

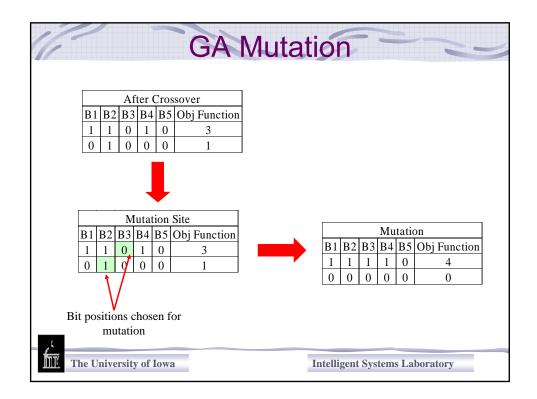


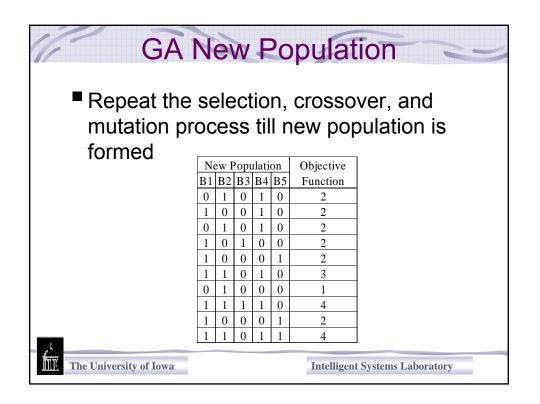


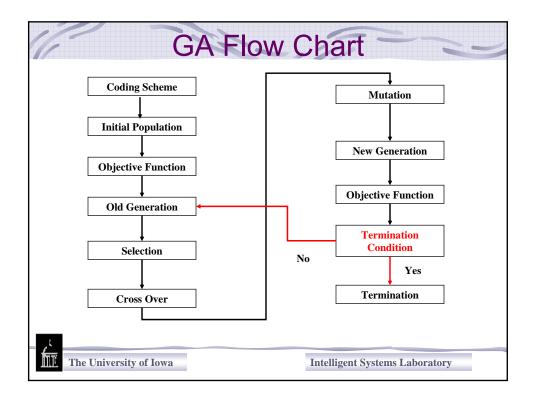


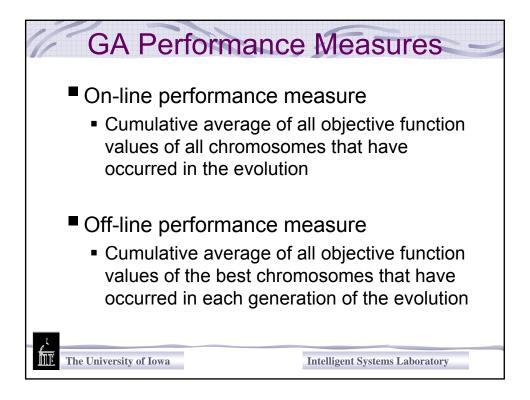




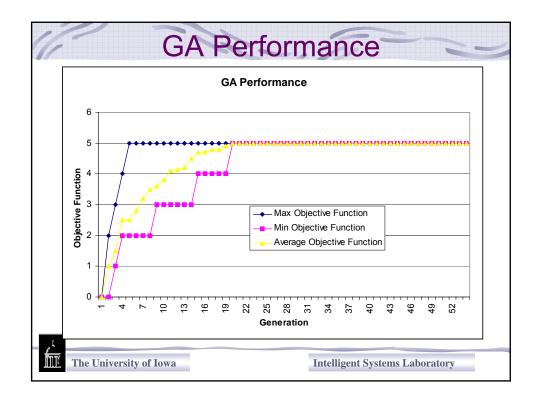


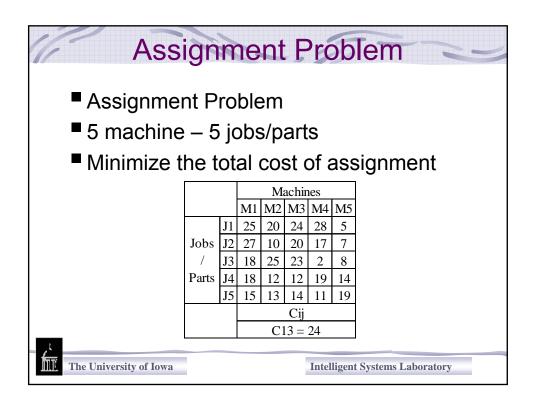


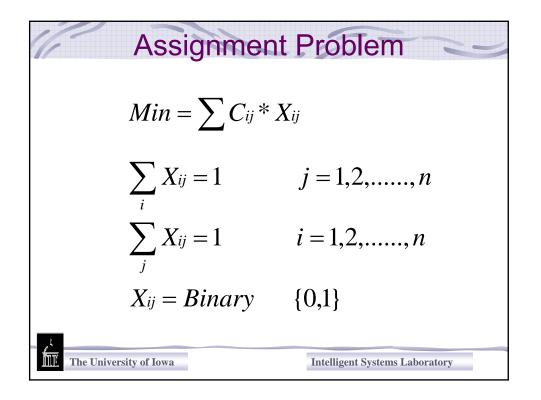




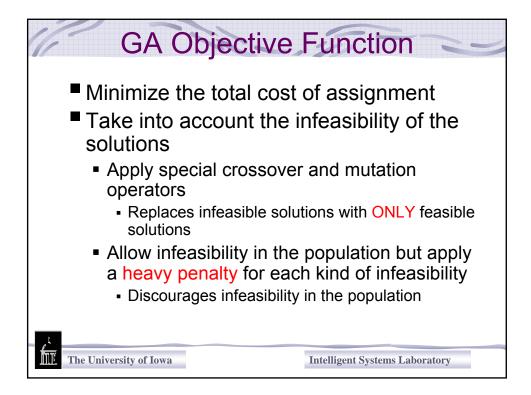
/ All						,				1	1	mar	1						
_	GA Generations																		
(Generation p Obj						Generation n Obj						Final Generation						Obj
B1	B2	B3	B4	B5	Function		B1	B2	B3	B4	B5	Function	•	B1	B2	B3	B4	B5	Function
0	1	0	0	1	2		1	0	0	1	1	3		1	1	1	1	1	5
1	0	1	0	1	3		1	1	0	1	1	4		1	1	1	1	1	5
0	1	0	1	0	2		0 1 0		1	0	2		0	1	1	1	0	3	
1	1	1	0	1	4		1	1	1	1	1	5		1	1	1	1	1	5
1	0	0	0	1	2		1	0	1	0	1	3		1	0	1	1	1	4
1	1	1	1	0	4		1	0	1	1	1	4		1	1	1	1	1	5
1	1	0	0	0	2		0	1	1	1	0	3		1	1	1	1	0	4
1	1	1	1	0	4		1	1	1	1	1	5		1	1	1	1	1	5
1	0	0	0	1	2		1	0	0	0	1	2		1	0	1	1	1	4
1	0	0	0	1	2		0	1	1	1	1	4		1	1	1	1	1	5
-		Min			2				Min	l		2	Min					3	
	A	vera	ge		2.7			A	vera	ge		3.5		Average					4.5
		Max	[4				Max	K.		5]	Max	[5
fm	Ť 1	The l	Univ	ersi	ty of Iowa							Intelli	iger	nt S	vste	ms I	abo	orate	orv







		Machines					
	M 1	M2	M3	M4	M5		
Chromosome 1	1	2	3	4	5		Feasible
Chromosome 2	1	1	2	2	3	Talaa (Infeasible
Chromosome 3	1	3	4	4	5	Jobs /	Infeasible
Chromosome 4	5	3	2	4	1	Parts	Feasible
Chromosome 5	2	4	5	1	3		Feasible
		Р	opulation	n			



GA Objective Function														
										M	achir			
									M1	M2	M3	M4	M5	
								J1	25 27	20	24	28	5	
$Min = \sum C_{ij} * X_{ij} + K * Infeasibility \qquad Jobs J2$										10	20	17	7	
	·						/ Parts		18	25	23	2	8	
K = 10000									18 15	12	12	19	14	
										13	14 Cii	11	19	
		ŀ		C	÷-J									
	C13 = 24													
	M1	M2	M3	M4	M5	Obj Fı	n							
Chromosome 1	1	2	3	4	5	25+10+23+19+1	19+10	00*	0	96	F	easil	ole	
Chromosome 2	1	1	2	2	3	25+20+20+17+	8+100)0*2	2 2	2090	Int	feasi	ible	
Chromosome 3	1	3	4	4	5	25+25+12+19+1	19+10	00*	1 1	100	Int	feasi	ible	
Chromosome 4	5	3	2	4	1	15+25+20+19+	5+100)0*(0	84	F	easil	ole	
Chromosome 5	2	4	5	1	3	27+12+14+28+	8+100)0*(0	89	F	easil	ole	
Chromosome 6	2	4	5	3	1	27+12+14+2+5	5+100	0*0)	60	F	easil	ole	
The University	of Io	wa				Intell	igent S	yste	ems	Lab	orat	ory		

