AUG BERGO
Endutionary Computing - Module 2.
Darwins Evolution.  Criver as Conviscoment that can host only a limited further as Conviscoment that can host only a limited pumber of individual, and the basic instinct of foodiniolarly to reproduce, selection become insuitable if the population size is not to grow enponentially.  Why Evolutionary. Computy.  The homography.  Copying Natural Purblem Solver.  Copying Natural Purblem Solver.
Optimization Pubblish Solutify Set of input.
? Sperified ? Input Ontput Ontput

Date:\_\_\_

Properties. \* EA's are population based. + Use recombination to my info of more candidal. solution vuto cen 5 They are Stochastic is nature. Componente. in the first part of a state of the second 1. Represent ontion 2. Evaluation funtion 10 3. Population 4. Parent Selection mechanism 5. Variation operator, recombination and mutation 6. Survivor Seleubon mechanism 135 Representation de routelange o wind a \* link realworld to EA world - Phenotype - Object forming possible 80ls noithis ouigiel publin content ordens - Grenotype - Objev erwodig, that is individual with 20- 31 EA. Inother F. \* Specify a mapping from phenotype onto a Bet of genotype that on Board to represent phenotype. \* In the set & integer 18 will be seen as phenotype and 10010 as genotype

	Date:
17	
2.	Enolusion Junison
	interest to the second to the
20	* It is a function / procedure that assign a quality
	measure to construct
5	measure to genotypes
0	P
3.	Population.
	To holpod possible 8010
	Mnetiset & genotype.
	Dettig the population Size
	Dest individual is chosen as seed for next ger
ANU	The dinersity of population is a measur of the
	no 2 différent Bois pusent.
	16
L	Parent Seleubion Meuhanism
7 13	To distinguish among parents.
	a 9+ is a parent if it has been selected to under-
	variation
	to high quality individual set a higher thou
	a 2 we are choosy high quality own it can go into
20	lour opt mur.
	to the fitters of the second of the
5	Variation Operation
	a Nevo individual foron old v
	-> Mutarion.
25	to on genotype and delen a sligwy modif

mut and

	Date :
18	
	-> Reio mbination
	6> A binary variation operan
	Mergres info from 2 pared genotype into la
	sample of harden
6.5	Survivor Selectio
	* Distryuish among individual based on their quality
	& Susuivor gelection y also often geen.
	STATIST & FOLLOW SE
	Durhalization ils mitalinger intimated i
2910	* Rendonly generated individual.
	tueblem Specific henristic initial population with
	high fitnes many de truegliste av
15	
11	Termination de de la
15	hers a known aprinum fruers level coming fo
Eurolista	a rinown optimum 9 the given whilether
	function then yearing this land is stopping
	recordition our landoustoni prilane de la
100 100 100 100 100 100 100 100 100 100	a 9 ave ou charre full problég était il rés
20	* Man allowed CPU time elapse
	Total no 2 fitues enaluation reaches q
	given limi.
	for a given period & time - bor a no & generalion
	Or p'hners erralnabio:
25	Dinesei h
	Dinersity drop wroter a given threshold,
	i. i. frib friend.

21	Date				
	Berom bination				
	-> new individual from information from 2 er more parent.				
	1. Bisary Representation				
5	1. One point coossone.				
	2. N. point cross one				
	3. Uniform erossoner.				
10					
	taken from 1st pourt or else from second parel				
	2. Artger Represent + 100 100 100 100 100 100 100 100 100 1				
	1. Same as binary representat.				
15	remossors sels & C.				
	3. Hoary Point Representation:				
2 1 a lau	(Elstelatelaletal				
Monday	1. Arithenery Recombination.				
	-2 Three Hyperice 18 F 8 P				
20	a Simple Recombination				
2 Sough Arithemetic Recombination.					
	-> Pick a gen or cell take arithernosic any & 2 pares				
	3. Whole Arithemetic Recombination.				
	-> Take weighted sun of two partal allele for each gen.				
25	Child 1: d. 8+ (1-d). y, child 2 = & 9+ (1-x) ñ				

	23			Date:
1	-	Choice Element Selected	Reason	Partial Resull.
-		Au 1	Random.	C,3
		25,4,9 5	Shortest Rist	[1,5]
	5	4,6	Common eolge	E156]
		2,7	Random choice	[1562]
		3,8	Smortest list	C15628J
		7,9 7	Common edge	[156287]
		3 3	Duey item in list	[1562873]
	10.	41999	Random choice	[15628739]
		4 4	lost elemes.	[156287394]
			A B P E	F
	15			
		A	BCF	
		eo 1	2100	
1		Element 8 - A B	age.	
1	20	0	te, D	
1				
1			E, B, E	
1				
+			7. FA	
1	25		+C,D	

Paresal Resues Reason Choice Elemet Selevted CAJ. Roudom Unoice Au CAB] Common edge B, D, C CA BCT Random choic CID CABCET Ranglows choice EF CABCEF) Common edge EA BCEFN last clemet 1284883217 devesso fast · 90 60 6 6 1000