

@ Precedence preservative crossover - Generally applied with Permutation Encoding / representation. Parent 1000 A B CO DOE F) Paunt 2 > AXB & F B (A C B E F D) select Pid > 121 Offsping Comila) -> [ACBPEF] 3 Partiary Matched crossoner (CP) A = 1984 56 7 13 2 10 220 Permitation Sielling CP2) BC= 187/2310/9546 C1 10 98423,10 16 5 7 c2 = 8101 567 9243 (1) criferm crossover (involver a Mousk christoszam) busiebo (8) 984 5 67 132 10 (H-> Hole ox 0=til 2001 y sular 49 1 23 10 9 4 4 H Holes traff som begins estimated for the south B> 23 10 | H H H | 9 4 & street parent (1) Fig to 11=10 thon \* mary = strang & and Brand to the Lubra de Child2 = 2310 567 9481 my P1 > 984105640 10444 -> = 567 | HHH | 1984 · C1 > 567 | 2310 | 1984 //

Ordered/ Crossover: - cyclic Crossover 5 10 6.3 2 3 92315478610 4 5 10 18247651093 ( Permulation Encoding)

: Dominance is a genotype -> plentype map. In.

Diploidy > Way for Remembering Prenasty Domirante > Protect Prich arreles from Gliphoidy allows multiple soly (to same problem) one soln 14 to be carried along, however only corresped. Houstein Judy: - Diploidy + Endring Dominale Each brinary gene -> deren bed by two genes (Values) -> modifier and Functional Gene functional Gene -> 0/1 values -> decodes to a hornal palameter. Modifier Gene -> M/m " Dominance -> of o if attent one M'allele in present " 1> Tuo hour scheme enland OM om to a simpler 1 bours 17 - Third article @ each war Banus Valux from foi1,24 set. Two hours Dominante Map 2 -> domeinant 1 -> Recessive Rules: 2 and 1 o dom 1

Selection Schemes methods that 1) Objective of evolving selection Stochasti enon of Routette wheel colection. i liferature 1> \* feno (a) Deterministic Sampling (b) Remounder Stochastic Sampling
(c) Stochastic Sampling w/o (d) 6 with replacement (e) @ with replacement (b) Stochastic trunament (Renking scheme) C <=> Roulette wheel method c => Expected value model (R3 plan) (a) > prob. of selection = ti/Et. Ex. No. of Individuals for a string; ei lei = pselect·n Lo Each string is amounted copies = integer pout of ei 6 population suted on 4 fractional pout is 6 Remainders of strings to make propulation - top of the scaled list. \* (b) and (d) stout similarly to Deturnin str Sampling Lo (Integer part) No. of Copries In (d) - fractional points of ei - determine weights for rounte wheel to till up the rest the population.

In (b) - fractional parts Thus if ei= 05

I sue copy and another with prob 05. (6) sochastic Tournament - Pournament selection Gone of two competting (diawn @ nuclions) is dulated winer and inserted in new population Successive paix of chalindral are chaun unity Mw selection. Gren. observation of good perfor by. B in most applications 

Part to A and the second to th

12 Cores

Previous but also those that yield a cripnoved objective for values (local 75 optimum)

Meta heuristic > Nethod for solving class of

Computational protecting by Combining user given being

hose proceedings — in the hope of finding con

(hering time)

efficient / which procedure.