LAB-5 Stimulated Sonealing. Objective Function: 22 55/000 function smulated Amealing Critical stade milial temperature, cooling, state iteration current state = mitial state best date = current state best cost objective function (current to temperature = nitral_temperature ciente demp?! for i e to tenation new state - Marghbourn Carrierd state arred cost objective function (corrected) neve-cost - Objectue function (neve-state) if AP (curre cost, new cost, semp) ? Kandom (o, 1) Current state - new - state if new cost 6 best - Cost best state = neve - state best cost neve cost dempx - Cooling - rate schoon (bet state / best cost) Function Expertise function (state): Cortzo for elem state Cent + = De + 5 sing getween court function Newsphows (state)

neve state = State copy ()

melex - Random (o, length (state)-1)

new state (index) + : Random (-1, 1)

stever new state Revolution Af Aleightown & P (Curr Stock)

New Cout temp)

The (New - cout / curr - cout);

yelwin) elu Elwar e (cura - cont - neve-cont) / temp errent state def mass (): netial temp 21000 Cooling rate - 09 red state stration = (000 mitial state - [sanden uniform (-10, nr-state (a) foor im range (2) but stale, but cout - wine (mitral-stale, critial-temp couling rate identing) prot ("But cont : { but state ?") Octout Best state = [-0.2587 -0.13911, -0.1005, -0.0901, -0.2 483, 0.0074, -0.10d4) Best cert = 9.17660