A corrected Artificial Bee rolony Aptimization: . Algorithm :i) Generate the initial population randomly. 11) For each employed bee Po: iii) Calculate fitness F(xi) (1) Obtain new candidate solution Vi in the neighborhard using: Vix= Xi, K+ \$\phi_{i,K}(\(\chi_{i,K} - \chi_{j,K}\) where \(\chi \neq K\) Pirk Rand [-1,1] V) Apply greedy search to compare $f(x_i)$ with $f(v_i)$ and update if better to enboyer help to employed bees part an information on their host food source (bolution) through waggle dances which depict information on not only the location of the nector, but also its auality. (11) Androker bees evaluate the info from the employed bees and Charle a food source based on a probabilistic selection given by, $Pi = \mathscr{L}_f(xi)$ Viii) If a particular food position cannot be improved over a predefined number of cycles (limit). the food source it abandoned and the bout hees discover new food sources using: Xi.K=1bk + QiK (UbK-1bK) where 16- bases bound Ub 7 upper bound of

Scanned with CamScanner

Pik = Hand (O,1)

Ked dimension