

Algorithm for SCX

Step 1: Start from 'node 1' (i.e., current node $p = 1$)

Step 2: Sequentially search both of the parent chromosomes and consider the first 'legitimate node' (the node that is not yet visited) appeared after 'node p ' in each parent. If no 'legitimate node' after 'node p ' is present in any of the parent, search sequentially the nodes $\{2, 3, \dots, n\}$ and consider the first 'legitimate' node, and go to Step 3

Step 3: Suppose the 'node α ' and the 'node β ' are found in 1st and 2nd parent respectively, then for selecting the next node go to Step 4

Step 4: If $c_{p\alpha} < c_{p\beta}$, then select 'node α ', otherwise, 'node β ' as the next node and concatenate it to the partially constructed offspring chromosome. If the offspring is a complete chromosome, then stop, otherwise, rename the present node as 'node p ' and go to Step 2
