

```

1: procedure CROSSING( $x^w$  : worst individual,  $x^b$  : better
   individual,  $c$ )
2:    $v \leftarrow \text{shuffle}(1, 2, \dots, n)$ 
3:   for  $i \leftarrow 1 : c$  do
4:      $j \leftarrow v_i$ 
5:      $x_j^w \leftarrow x_j^b$  ▷ gene carriage
6:   end for
7:   if  $s^w$  is not feasible then
8:     repair  $s^w$ 
9:   end if
10:  update  $s^w$  fitness
11:  return  $s^w$ 
12: end procedure

```

Figure 7: Crossing procedure used on SCE algorithm.