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ACCEPTED MANUSCRIPT

Two-level Particle Swarm Optimization for the Multi-Modal Team Orienteering Problem with Time Windows

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Graphical abstract'

 First-level solution representation (l = 1) with a total dimension (D_l) of 21

 (1)
 (2)
 (3)
 (4)
 (5)
 (6)
 (7)
 (8)
 (9)
 (10)
 (11)
 (12)
 (13)
 (14)
 (15)
 (16)
 (17)
 (18)
 (19)
 (20)
 (0)

 0.25
 0.5
 0.62
 0.7
 0.1
 0.45
 0.85
 0.2
 0.6
 0.21
 0.38
 0.55
 0.71
 0.3
 0.88
 0.12
 0.9
 0.75
 0.4
 0.8
 0.52

Second-level solution representation (l = 2) with a total dimension (D_{1}) of 22 (5) (6) (7) (8) 0.5 0.26 0.5 0.94 (10)(12) (14) (9) (13) (15)(16) (17)(18)(19) (20) (21) (1) (2) (3) (4) (11)0.3 0.63 0.5 0.32 0.47 0.14 0.30 0.83 0.53 0.440.86 0.90 0.34 0.57 0.76 0.51 0.12

(22)

0.80

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