

CS410_BT03_PSO_OPTIMIZATION

Test function	Star Topology	Ring Topology	Global minimum
Rastrigin	(4.0272e-04, -7.50478e-05)	(0.00729, 0.007)	(0, 0)
Rosenbrock	(-100.07051, 10000)	(-24.00213, 579.93482)	(1, 1)
Eggholder	(512, 404.2385)	(512, 404.23227)	(512, 404.2319)
Ackley	(-0.00024, 0.000824)	(-0.000425, -0.000369)	(0, 0)

Bảng 1: Global best of each test function and topology

Test function	Star Topology	Ring Topology	Global minimum
Rastrigin	6.7928e-06	0.0041	0
Rosenbrock	30112.85	2093.9732	0
Eggholder	-959.64061	-959.64066	-959.6407
Ackley	0.002446	0.0016	0

Bảng 2: Objective value of each test function and topology

Test function	Star Topology	Ring Topology
Rastrigin	6.7928e-06	0.0041
Rosenbrock	30112.85	2093.9732
Eggholder	9e-5	4e-5
Ackley	0.002446	0.0016

Bảng 3: Distance from global optimum of each test function and topology