

Problem	No. of Obj.	NSGA-III		K-RVEA		ε -MaSO		MOEA/D-EGO		KTA2		ParEGO		RECAS
		IGD_{avg}	T	IGD_{avg}	T	IGD_{avg}	T	IGD_{avg}	T	IGD_{avg}	T	IGD_{avg}	T	
DTLZ1 with 10 variables ($d = 10$)	2	1.23e+2	—	1.02e+2	—	1.03e+2	—	1.03e+2	—	1.02e+2	—	1.45e+2	—	5.25e+1
	3	8.77e+1	—	9.12e+1	—	8.07e+1	—	8.29e+1	—	5.08e+1	—	1.05e+2	—	3.31e+1
	4	6.08e+1	—	5.66e+1	—	7.72e+1	—	6.57e+1	—	3.84e+1	—	7.81e+1	—	2.99e+1
	6	3.11e+1	—	2.35e+1	—	2.61e+1	—	3.27e+1	—	1.87e+1	—	4.54e+1	—	1.36e+1
	8	9.23e+0	—	6.91e+0	—	8.72e+0	—	1.19e+1	—	4.55e+0	≈	9.71e+0	—	4.79e+0
	10	4.13e-1	—	3.67e-1	—	4.22e-1	—	3.88e-1	—	2.96e-1	≈	3.22e-1	≈	2.86e-1
DTLZ2 with 10 variables ($d = 10$)	2	2.40e-1	—	3.82e-2	≈	1.04e-2	+	2.86e-1	—	6.87e-3	+	6.83e-2	—	3.41e-2
	3	2.93e-1	—	1.20e-1	—	7.51e-2	+	3.30e-1	—	6.84e-2	+	1.72e-1	—	9.70e-2
	4	3.40e-1	—	2.17e-1	—	1.83e-1	≈	3.73e-1	—	1.37e-1	+	2.81e-1	—	1.83e-1
	6	4.52e-1	—	3.47e-1	≈	3.37e-1	≈	4.80e-1	—	3.25e-1	+	4.90e-1	—	3.34e-1
	8	5.37e-1	—	4.46e-1	≈	4.02e-1	+	5.30e-1	—	4.29e-1	+	6.01e-1	—	4.59e-1
	10	5.83e-1	—	5.13e-1	≈	4.27e-1	+	5.24e-1	—	4.34e-1	+	6.71e-1	—	5.21e-1
DTLZ3 with 10 variables ($d = 10$)	2	3.20e+2	—	2.60e+2	—	2.87e+2	—	2.42e+2	—	2.27e+2	—	3.19e+2	—	1.19e+2
	3	2.71e+2	—	2.16e+2	—	2.19e+2	—	2.02e+2	—	1.45e+2	—	2.62e+2	—	9.69e+1
	4	1.68e+2	—	1.54e+2	—	1.47e+2	—	1.66e+2	—	1.08e+2	—	2.28e+2	—	7.79e+1
	6	9.22e+1	—	8.73e+1	—	9.91e+1	—	9.59e+1	—	5.60e+1	≈	9.77e+1	—	5.15e+1
	8	2.27e+1	—	2.53e+1	—	4.25e+1	—	3.98e+1	—	1.59e+1	≈	1.93e+1	≈	1.53e+1
	10	1.35e+0	—	1.17e+0	—	1.20e+0	—	1.15e+0	—	1.09e+0	≈	1.10e+0	≈	1.08e+0
DTLZ4 with 10 variables ($d = 10$)	2	5.27e-1	—	1.90e-1	≈	2.62e-1	—	4.68e-1	—	2.35e-1	≈	3.86e-1	—	1.53e-1
	3	5.92e-1	—	3.11e-1	—	4.64e-1	—	6.54e-1	—	3.09e-1	≈	5.69e-1	—	2.98e-1
	4	6.41e-1	—	3.60e-1	+	5.65e-1	—	6.93e-1	—	5.22e-1	—	7.29e-1	—	4.53e-1
	6	6.71e-1	—	4.95e-1	≈	6.36e-1	—	6.97e-1	—	6.21e-1	—	8.17e-1	—	5.58e-1
	8	6.79e-1	—	6.12e-1	≈	6.49e-1	—	6.73e-1	—	6.27e-1	—	7.89e-1	—	6.09e-1
	10	6.97e-1	—	6.67e-1	≈	6.61e-1	≈	6.64e-1	≈	6.57e-1	≈	7.81e-1	—	6.67e-1
DTLZ5 with 10 variables ($d = 10$)	2	2.28e-1	—	3.58e-2	≈	1.06e-2	+	2.77e-1	—	7.56e-3	+	6.83e-2	—	3.83e-2
	3	2.17e-1	—	9.48e-2	—	1.34e-2	+	2.77e-1	—	1.39e-2	+	5.20e-2	—	2.28e-2
	4	1.75e-1	—	5.75e-2	—	3.27e-2	≈	2.17e-1	—	4.20e-2	—	5.77e-2	—	2.89e-2
	6	1.26e-1	—	3.95e-2	—	4.35e-2	—	1.53e-1	—	8.76e-2	—	7.03e-2	—	3.22e-2
	8	6.11e-2	—	2.33e-2	+	3.83e-2	—	8.00e-2	—	6.55e-2	—	6.53e-2	—	3.08e-2
	10	1.59e-2	—	1.51e-2	≈	1.67e-2	—	2.10e-2	—	2.03e-2	—	1.88e-2	—	1.12e-2
DTLZ6 with 10 variables ($d = 10$)	2	6.67e+0	—	3.56e+0	—	4.18e+0	—	2.50e+0	—	1.92e+0	—	1.38e+0	—	2.70e-1
	3	6.11e+0	—	2.88e+0	—	5.34e+0	—	2.02e+0	—	1.79e+0	—	1.16e+0	—	1.57e-1
	4	5.31e+0	—	2.15e+0	—	4.78e+0	—	1.46e+0	—	1.63e+0	—	1.03e+0	—	6.34e-2
	6	3.76e+0	—	1.42e+0	—	3.29e+0	—	1.05e+0	—	1.57e+0	—	6.78e-1	—	5.61e-2
	8	2.04e+0	—	4.76e-1	—	1.75e+0	—	4.84e-1	—	9.81e-1	—	4.79e-1	—	1.77e-2
	10	5.36e-1	—	6.62e-2	—	1.88e-1	—	2.09e-1	—	1.17e-1	—	2.16e-1	—	2.52e-2
DTLZ7 with 10 variables ($d = 10$)	2	3.28e+0	—	5.20e-2	—	4.95e-1	—	1.89e-1	—	6.41e-3	+	1.17e+0	—	4.13e-2
	3	4.83e+0	—	1.18e-1	+	1.08e-1	+	2.18e-1	≈	1.26e-1	+	2.38e+0	—	2.16e-1
	4	6.08e+0	—	2.53e-1	+	2.46e-1	+	5.07e-1	≈	4.14e-1	+	3.30e+0	—	5.31e-1
	6	8.77e+0	—	5.80e-1	+	6.21e-1	+	8.43e-1	+	6.32e-1	+	4.51e+0	—	8.70e-1
	8	6.37e+0	—	9.02e-1	+	1.17e+0	≈	1.14e+0	≈	1.04e+0	+	4.52e+0	—	1.15e+0
	10	1.92e+0	—	1.11e+0	+	1.14e+0	+	1.23e+0	—	1.27e+0	—	1.67e+0	—	1.21e+0
Number of +/—/≈		0/42/0		7/25/10		10/27/5		1/37/4		13/21/8		0/39/3		