

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	IGD_{avg}
DTLZ1 with 20 variables ($d = 20$)	2	3.27e+2	—	2.85e+2	—	2.60e+2	—	3.01e+2	—	2.53e+2	—	3.29e+2	—	1.49e+2
	3	2.78e+2	—	2.51e+2	—	2.34e+2	—	2.26e+2	—	1.59e+2	≈	2.70e+2	—	1.21e+2
	4	2.33e+2	—	2.05e+2	—	2.07e+2	—	1.94e+2	—	1.44e+2	≈	2.24e+2	—	9.76e+1
	6	1.96e+2	—	1.64e+2	—	1.74e+2	—	1.57e+2	—	1.22e+2	—	2.06e+2	—	8.34e+1
	8	1.48e+2	—	1.25e+2	—	1.27e+2	—	1.25e+2	—	8.73e+1	—	1.74e+2	—	6.72e+1
	10	1.03e+2	—	7.37e+1	—	8.32e+1	—	8.73e+1	—	7.78e+1	—	1.25e+2	—	5.18e+1
DTLZ2 with 20 variables ($d = 20$)	2	4.80e-1	—	1.17e-1	—	2.14e-2	+	5.25e-1	—	9.29e-2	≈	2.12e-1	—	1.01e-1
	3	5.67e-1	—	2.95e-1	—	1.45e-1	+	5.80e-1	—	1.52e-2	+	2.71e-1	—	1.61e-1
	4	6.23e-1	—	3.75e-1	—	3.39e-1	—	6.70e-1	—	1.62e-1	+	3.92e-1	—	2.38e-1
	6	7.98e-1	—	5.92e-1	—	6.37e-1	—	8.36e-1	—	4.24e-1	—	6.74e-1	—	3.78e-1
	8	8.12e-1	—	6.29e-1	—	7.02e-1	—	8.85e-1	—	5.24e-1	—	8.52e-1	—	5.03e-1
	10	8.34e-1	—	6.79e-1	—	7.30e-1	—	8.90e-1	—	5.70e-1	≈	9.11e-1	—	5.63e-1
DTLZ3 with 20 variables ($d = 20$)	2	8.15e+2	—	7.62e+2	—	6.86e+2	—	6.30e+2	—	6.19e+2	—	8.36e+2	—	3.79e+2
	3	7.94e+2	—	7.32e+2	—	6.58e+2	—	4.95e+2	—	4.81e+2	—	8.49e+2	—	3.52e+2
	4	7.35e+2	—	5.95e+2	—	6.13e+2	—	4.32e+2	—	5.07e+2	—	8.20e+2	—	3.40e+2
	6	6.40e+2	—	5.25e+2	—	6.04e+2	—	3.93e+2	—	4.79e+2	—	6.18e+2	—	2.56e+2
	8	5.57e+2	—	4.25e+2	—	4.39e+2	—	3.34e+2	—	4.31e+2	—	5.01e+2	—	2.27e+2
	10	4.25e+2	—	2.88e+2	—	3.10e+2	—	2.66e+2	—	3.02e+2	—	3.72e+2	—	1.81e+2
DTLZ4 with 20 variables ($d = 20$)	2	6.42e-1	—	2.34e-1	+	4.33e-1	—	9.88e-1	—	3.18e-1	≈	6.73e-1	—	3.23e-1
	3	8.30e-1	—	5.50e-1	—	4.81e-1	—	1.09e+0	—	6.14e-1	—	6.61e-1	—	3.38e-1
	4	7.74e-1	—	6.22e-1	—	6.04e-1	—	1.18e+0	—	8.13e-1	—	8.53e-1	—	4.46e-1
	6	9.18e-1	—	7.08e-1	—	7.57e-1	—	1.17e+0	—	8.96e-1	—	1.02e+0	—	5.84e-1
	8	9.57e-1	—	7.46e-1	—	8.44e-1	—	1.12e+0	—	8.52e-1	—	1.12e+0	—	7.07e-1
	10	9.73e-1	—	8.18e-1	—	8.91e-1	—	1.08e+0	—	9.05e-1	—	1.29e+0	—	7.48e-1
DTLZ5 with 20 variables ($d = 20$)	2	4.74e-1	—	1.15e-1	≈	2.26e-2	+	5.41e-1	—	2.19e-2	+	2.11e-1	—	9.62e-2
	3	5.01e-1	—	2.38e-1	—	5.15e-2	+	5.11e-1	—	2.27e-2	+	1.27e-1	—	6.39e-2
	4	5.20e-1	—	2.09e-1	—	1.31e-1	—	4.69e-1	—	1.14e-1	—	1.48e-1	—	7.62e-2
	6	5.12e-1	—	2.14e-1	—	2.07e-1	—	4.56e-1	—	1.60e-1	—	1.97e-1	—	1.18e-1
	8	4.57e-1	—	1.81e-1	—	2.25e-1	—	3.99e-1	—	2.11e-1	—	2.26e-1	—	1.20e-1
	10	3.55e-1	—	1.36e-1	≈	1.77e-1	—	3.39e-1	—	1.78e-1	—	2.07e-1	—	1.28e-1
DTLZ6 with 20 variables ($d = 20$)	2	1.40e+1	—	9.16e+0	—	1.15e+1	—	7.89e+0	—	6.19e+0	—	6.77e+0	—	3.77e+0
	3	1.43e+1	—	8.07e+0	—	1.36e+1	—	6.64e+0	—	6.30e+0	—	6.74e+0	—	2.98e+0
	4	1.38e+1	—	7.09e+0	—	1.33e+1	—	6.30e+0	—	6.46e+0	—	6.40e+0	—	2.13e+0
	6	1.22e+1	—	6.44e+0	—	1.17e+1	—	4.74e+0	—	8.90e+0	—	5.66e+0	—	1.37e+0
	8	1.03e+1	—	5.64e+0	—	1.01e+1	—	4.66e+0	—	8.27e+0	—	4.95e+0	—	8.56e-1
	10	8.67e+0	—	4.81e+0	—	7.87e+0	—	4.11e+0	—	7.51e+0	—	4.14e+0	—	4.20e-1
DTLZ7 with 20 variables ($d = 20$)	2	3.33e+0	—	6.26e-2	+	5.28e-2	+	3.05e+0	—	4.13e-3	+	2.86e+0	—	1.19e-1
	3	5.54e+0	—	1.00e-1	+	2.63e-1	≈	3.40e+0	—	1.22e-1	+	5.01e+0	—	2.97e-1
	4	6.59e+0	—	2.35e-1	+	5.15e-1	+	3.30e+0	—	3.15e-1	+	6.06e+0	—	6.29e-1
	6	1.31e+1	—	5.69e-1	+	1.22e+0	—	2.64e+0	—	1.05e+0	≈	1.07e+1	—	9.58e-1
	8	1.83e+1	—	8.83e-1	+	3.10e+0	—	4.08e+0	—	1.51e+0	≈	1.33e+1	—	1.20e+0
	10	2.22e+1	—	1.24e+0	+	3.73e+0	—	4.34e+0	—	2.30e+0	—	1.46e+1	—	1.28e+0
Number of +/—/≈		0/42/0		7/33/2		6/35/1		0/42/0		7/28/7		0/42/0		