

NRPPProblemsStudy

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1 Tables

Table 1: EP, Mean and Standard Deviation

	NSGAII	SPEA2	MOCell	MOCHC
NRP1	$1.41e-02$ _{$5.2e-03$}	$1.82e-02$ _{$8.7e-03$}	$7.89e-03$ _{$1.0e-03$}	$9.52e-02$ _{$2.5e-02$}
NRP2	$5.06e-02$ _{$1.5e-02$}	$3.15e-02$ _{$2.1e-02$}	$1.15e-02$ _{$8.1e-03$}	$1.46e-01$ _{$2.6e-02$}
NRP3	$1.14e-01$ _{$1.6e-02$}	$8.86e-02$ _{$3.5e-02$}	$2.83e-02$ _{$2.9e-02$}	$2.16e-01$ _{$2.6e-02$}
NRP4	$2.06e-01$ _{$1.4e-02$}	$1.81e-01$ _{$3.7e-02$}	$6.51e-02$ _{$5.8e-02$}	$2.80e-01$ _{$1.0e-02$}

Table 2: EP. Median and Interquartile Range

	NSGAII	SPEA2	MOCcell	MOCHC
NRP1	$1.30e-02$	$1.47e-02$	$7.49e-03$	$8.75e-02$
NRP2	$5.11e-02$	$2.18e-02$	$8.64e-03$	$1.50e-01$
NRP3	$1.11e-01$	$7.66e-02$	$1.37e-02$	$2.12e-01$
NRP4	$2.05e-01$	$1.69e-01$	$4.79e-02$	$2.86e-01$

Table 3: SPREAD. Mean and Standard Deviation

	NSGAII	SPEA2	MOCcell	MOCHC
NRP1	$4.05e-01$	$4.19e-01$	$1.75e-01$	$5.06e-01$
NRP2	$4.47e-01$	$4.46e-01$	$1.56e-01$	$5.78e-01$
NRP3	$5.40e-01$	$4.91e-01$	$1.82e-01$	$6.68e-01$
NRP4	$6.60e-01$	$6.28e-01$	$2.42e-01$	$7.52e-01$

Table 4: SPREAD. Median and Interquartile Range

	NSGAII	SPEA2	MOCcell	MOCHC
NRP1	$3.97e-01$	$4.12e-01$	$1.69e-01$	$4.84e-01$
NRP2	$4.59e-01$	$4.22e-01$	$1.40e-01$	$5.85e-01$
NRP3	$5.34e-01$	$4.69e-01$	$1.43e-01$	$6.74e-01$
NRP4	$6.56e-01$	$6.13e-01$	$2.18e-01$	$7.53e-01$

Table 5: HV. Mean and Standard Deviation

	NSGAII	SPEA2	MOCcell	MOCHC
NRP1	$6.75e-01$	$6.74e-01$	$6.77e-01$	$6.55e-01$
NRP2	$6.52e-01$	$6.52e-01$	$6.60e-01$	$6.14e-01$
NRP3	$6.18e-01$	$6.23e-01$	$6.40e-01$	$5.67e-01$
NRP4	$5.51e-01$	$5.80e-01$	$6.06e-01$	$5.09e-01$

Table 6: HV. Median and Interquartile Range

	NSGAII	SPEA2	MOCcell	MOCHC
NRP1	$6.75e-01$	$6.74e-01$	$6.77e-01$	$6.60e-01$
NRP2	$6.52e-01$	$6.53e-01$	$6.61e-01$	$6.14e-01$
NRP3	$6.18e-01$	$6.28e-01$	$6.44e-01$	$5.68e-01$
NRP4	$5.51e-01$	$5.87e-01$	$6.13e-01$	$5.06e-01$

Table 7: IGD. Mean and Standard Deviation

	NSGAII	SPEA2	MOCcell	MOCHC
NRP1	$4.56e-04$	$4.61e-04$	$2.37e-04$	$2.75e-03$
NRP2	$7.77e-04$	$5.73e-04$	$2.31e-04$	$3.31e-03$
NRP3	$2.45e-03$	$1.86e-03$	$5.69e-04$	$5.88e-03$
NRP4	$5.27e-03$	$3.87e-03$	$1.28e-03$	$8.42e-03$

Table 8: IGD. Median and Interquartile Range

	NSGAII	SPEA2	MOCcell	MOCHC
NRP1	$4.11e-04$	$3.75e-04$	$2.36e-04$	$2.38e-03$
NRP2	$7.55e-04$	$4.76e-04$	$1.74e-04$	$3.41e-03$
NRP3	$2.30e-03$	$1.49e-03$	$3.50e-04$	$5.74e-03$
NRP4	$5.36e-03$	$3.54e-03$	$7.54e-04$	$8.49e-03$

Table 9: IGD+. Mean and Standard Deviation

	NSGAII	SPEA2	MOCcell	MOCHC
NRP1	$3.11e-03$	$3.66e-03$	$2.00e-03$	$9.91e-03$
NRP2	$5.60e-03$	$7.26e-03$	$3.15e-03$	$2.15e-02$
NRP3	$1.37e-02$	$1.28e-02$	$6.15e-03$	$3.92e-02$
NRP4	$3.58e-02$	$2.35e-02$	$1.47e-02$	$5.56e-02$

Table 10: IGD+. Median and Interquartile Range

	NSGAII	SPEA2	MOCeII	MOCHC
NRP1	$3.03e-03_{4.9e-04}$	$3.67e-03_{7.9e-04}$	$1.96e-03_{2.0e-04}$	$7.11e-03_{7.4e-03}$
NRP2	$5.54e-03_{1.0e-03}$	$7.33e-03_{9.8e-04}$	$2.65e-03_{1.1e-03}$	$2.13e-02_{1.1e-02}$
NRP3	$1.35e-02_{2.8e-03}$	$1.08e-02_{2.7e-03}$	$4.53e-03_{2.8e-03}$	$3.80e-02_{1.2e-02}$
NRP4	$3.57e-02_{2.5e-03}$	$1.98e-02_{6.3e-03}$	$1.07e-02_{9.7e-03}$	$5.74e-02_{9.0e-03}$