## WFGStudy

A.J. Nebro

November 25, 2024

## 1 Tables

	Table 1: HV. Mean and Standard Deviation								
		NSGAII	SPEA2	MOEADDRA	MOEADD	AGE-MOEA-II	ESPEA	GWASFGA	
	WFG1_2	$5.77e - 01_{2.4e-02}$	$5.20e - 01_{6.3e-02}$	$2.61e - 01_{3.8e-02}$	$5.23e - 01_{4.7e-02}$	$5.67e - 01_{2.6e-02}$	$4.64e - 01_{4.5e-02}$	$5.93e - 01_{9.4e-03}$	
	$WFG2_2$	$5.60e - 01_{2.0e-03}$	$5.62e - 01_{5.9e-04}$	$5.52e - 01_{3.7e-03}$	$5.58e - 01_{2.6e-03}$	$5.59e - 01_{1.2e-03}$	$5.59e - 01_{1.9e - 03}$	$5.59e - 01_{1.3e-03}$	
	$WFG3_2$	$4.40e - 01_{3.8e-04}$	$4.40e - 01_{4.0e-04}$	$4.40e - 01_{2.3e-04}$	$4.41e - 01_{3.5e-04}$	$4.41e - 01_{3.0e-04}$	$4.39e - 01_{1.2e-03}$	$4.40e - 01_{4.8e-04}$	
	$WFG5_2$	$1.94e - 01_{8.8e - 05}$	$1.95e - 01_{1.9e-04}$	$1.93e - 01_{1.6e-03}$	$1.95e - 01_{1.1e-04}$	$1.92e - 01_{3.4e-03}$	$1.96e - 01_{9.7e-05}$	$1.94e - 01_{1.6e-04}$	
	$WFG4_2$	$2.16e - 01_{5.8e-04}$	$2.16e - 01_{3.8e-04}$	$1.88e - 01_{1.4e-03}$	$2.17e - 01_{1.6e-04}$	$2.19e - 01_{1.9e-04}$	$2.18e - 01_{2.6e-04}$	$2.17e - 01_{2.9e-04}$	
	$WFG6_2$	$1.83e - 01_{7.5e-03}$	$1.83e - 01_{3.5e-03}$	$1.58e - 01_{1.3e-02}$	$1.82e - 01_{3.6e-03}$	$1.82e - 01_{7.6e-03}$	$1.85e - 01_{3.5e-03}$	$1.81e - 01_{2.4e-03}$	
	$WFG7_2$	$2.08e - 01_{3.3e-04}$	$2.09e - 01_{1.9e-04}$	$2.05e - 01_{3.8e-04}$	$2.09e - 01_{3.3e - 05}$	$2.10e - 01_{1.4e-04}$	$2.10e - 01_{1.1e-04}$	$2.08e - 01_{8.3e-05}$	
	$WFG8_2$	$1.73e - 01_{7.6e - 04}$	$1.75e - 01_{3.5e - 04}$	$1.68e - 01_{1.8e-03}$	$1.76e - 01_{1.2e-03}$	$1.76e - 01_{5.8e-04}$	$1.77e - 01_{1.4e-03}$	$1.74e - 01_{5.4e-04}$	
	$WFG9_2$	$2.22e - 01_{2.6e-02}$	$2.00e - 01_{3.3e-02}$	$1.95e - 01_{2.7e-02}$	$2.22e - 01_{2.6e-02}$	$1.87e - 01_{2.7e-02}$	$2.28e - 01_{6.8e-03}$	$1.98e - 01_{3.3e-02}$	
	$WFG1_3$	$3.94e - 01_{1.4e-01}$	$4.08e - 01_{1.1e-01}$	$2.62e - 01_{6.7e - 03}$	$4.21e - 01_{1.3e-01}$	$6.54e - 01_{1.8e-01}$	$8.41e - 01_{5.4e-02}$	$6.56e - 01_{2.0e-01}$	
	$WFG2\_3$	$8.38e - 01_{5.6e-02}$	$8.24e - 01_{6.4e-02}$	$8.01e - 01_{6.1e-02}$	$8.35e - 01_{7.6e-02}$	$8.33e - 01_{6.3e-02}$	$8.08e - 01_{5.4e-02}$	$8.25e - 01_{6.6e - 02}$	
2	$WFG3\_3$	$2.89e - 01_{1.3e-02}$	$2.62e - 01_{9.5e-03}$	$2.34e - 01_{1.1e-02}$	$2.13e - 01_{1.0e - 02}$	$2.84e - 01_{1.2e-02}$	$2.97e - 01_{7.8e - 03}$	$2.98e - 01_{6.7e - 03}$	
	$WFG5\_3$	$3.37e - 01_{4.6e-03}$	$3.54e - 01_{6.4e-03}$	$3.42e - 01_{4.2e-03}$	$3.55e - 01_{2.7e-03}$	$3.42e - 01_{2.9e-02}$	$3.65e - 01_{3.3e-03}$	$3.55e - 01_{6.5e-03}$	
	$WFG4\_3$	$3.47e - 01_{4.9e-03}$	$3.58e - 01_{3.4e-03}$	$3.10e - 01_{6.6e-03}$	$3.82e - 01_{7.2e-03}$	$3.89e - 01_{6.0e-03}$	$3.91e - 01_{5.3e-03}$	$3.92e - 01_{4.4e-03}$	
	$WFG6\_3$	$3.21e - 01_{1.7e - 02}$	$3.46e - 01_{8.1e-03}$	$3.13e - 01_{7.2e - 03}$	$3.55e - 01_{1.4e - 02}$	$3.51e - 01_{5.8e-03}$	$3.64e - 01_{8.5e-03}$	$3.59e - 01_{5.1e-03}$	
	$WFG7\_3$	$3.52e - 01_{5.2e - 03}$	$3.76e - 01_{4.5e - 03}$	$3.31e - 01_{2.1e-02}$	$3.90e - 01_{4.6e-03}$	$4.00e - 01_{3.6e-03}$	$3.93e - 01_{2.6e-03}$	$3.90e - 01_{3.2e-03}$	
	$WFG8_{-3}$	$2.74e - 01_{8.2e-03}$	$2.94e - 01_{3.1e-03}$	$2.28e - 01_{2.8e-02}$	$3.08e - 01_{6.6e-03}$	$3.06e - 01_{4.6e-03}$	$2.97e - 01_{6.3e-03}$	$2.95e - 01_{5.2e-03}$	
	$WFG9\_3$	$2.89e - 01_{7.0e-03}$	$3.26e - 01_{1.6e-02}$	$3.04e - 01_{3.8e - 03}$	$3.30e - 01_{2.2e-02}$	$3.38e - 01_{3.1e-02}$	$3.17e - 01_{1.9e-02}$	$2.91e - 01_{8.3e-04}$	
	$WFG1_5$	$1.36e - 01_{5.4e-02}$	$1.40e - 02_{8.8e-03}$	$2.42e - 01_{7.8e-02}$	$3.27e - 01_{4.5e - 02}$	$4.40e - 01_{7.2e-02}$	$9.70e - 01_{8.4e-03}$	$8.22e - 01_{3.9e-02}$	
	$WFG2_5$	$8.40e - 01_{4.5e-02}$	$8.11e - 01_{4.0e-02}$	$8.32e - 01_{5.5e - 02}$	$8.75e - 01_{2.4e - 03}$	$9.05e - 01_{1.0e-01}$	$9.24e - 01_{6.5e-03}$	$9.26e - 01_{7.6e-02}$	
	$WFG3_5$	$1.20e - 01_{1.6e-02}$	$0.00e + 00_{0.0e+00}$	$5.68e - 05_{1.3e-04}$	$6.56e - 03_{6.4e-03}$	$1.26e - 01_{4.3e-03}$	$1.60e - 01_{5.6e-03}$	$1.48e - 01_{1.5e-03}$	
	$WFG5\_5$	$4.44e - 01_{1.5e-02}$	$4.26e - 01_{2.0e-02}$	$5.07e - 01_{9.2e - 03}$	$5.46e - 01_{2.8e-03}$	$5.45e - 01_{5.9e-02}$	$6.00e - 01_{2.9e-03}$	$5.56e - 01_{1.2e-02}$	
	$WFG4\_5$	$3.51e - 01_{9.8e-03}$	$3.33e - 01_{1.0e-02}$	$2.80e - 01_{2.2e-02}$	$4.67e - 01_{2.5e-03}$	$5.16e - 01_{3.8e - 03}$	$5.18e - 01_{5.3e-03}$	$4.85e - 01_{1.2e-02}$	
	$WFG6_5$	$3.88e - 01_{1.0e-02}$	$4.06e - 01_{1.8e-02}$	$4.53e - 01_{2.2e-02}$	$5.53e - 01_{6.7e - 03}$	$5.54e - 01_{2.2e-02}$	$5.92e - 01_{1.1e - 02}$	$5.66e - 01_{5.3e-03}$	
	$WFG7_5$	$3.05e - 01_{2.9e-02}$	$2.38e - 01_{3.7e-02}$	$2.68e - 01_{2.6e-02}$	$4.75e - 01_{3.6e-03}$	$5.32e - 01_{4.4e-03}$	$5.27e - 01_{1.3e-03}$	$4.80e - 01_{4.3e-02}$	
	$WFG8\_5$	$3.38e - 01_{1.6e-02}$	$2.87e - 01_{1.2e-02}$	$2.99e - 01_{4.3e-02}$	$4.75e - 01_{1.3e-03}$	$4.99e - 01_{6.9e - 03}$	$4.96e - 01_{2.5e-03}$	$3.54e - 01_{1.2e-02}$	
	WFG9 <sub>-5</sub>	$3.87e - 01_{1.0e - 02}$	$3.90e - 01_{5.4e-02}$	$4.93e - 01_{2.7e - 02}$	$5.42e - 01_{1.3e - 02}$	$5.56e - 01_{3.5e - 02}$	$5.23e - 01_{8.8e-03}$	$3.46e - 01_{1.1e-02}$	

Table 2: HV. Median and Interquartile Range

Table 2. 11 . Median and Interquartic Range								
	NSGAII	SPEA2	MOEADDRA	MOEADD	AGE-MOEA-II	ESPEA		
WFG1_2	$5.92e - 01_{4.5e-02}$	$5.25e - 01_{1.2e-01}$	$2.41e - 01_{6.9e-02}$	$5.41e - 01_{8.8e-02}$	$5.64e - 01_{4.8e-02}$	$4.67e - 01_{7.4e-02}$		
$WFG2_2$	$5.59e - 01_{3.6e-03}$	$5.62e - 01_{1.0e-03}$	$5.54e - 01_{4.6e-03}$	$5.58e - 01_{3.8e - 03}$	$5.58e - 01_{2.2e-03}$	$5.59e - 01_{3.4e-03}$		
$WFG3_2$	$4.40e - 01_{6.8e-04}$	$4.40e - 01_{6.1e-04}$	$4.40e - 01_{4.2e-04}$	$4.41e - 01_{6.9e-04}$	$4.41e - 01_{5.6e-04}$	$4.40e - 01_{2.2e-03}$		
$WFG5_2$	$1.95e - 01_{1.5e-04}$	$1.95e - 01_{3.2e - 04}$	$1.94e - 01_{2.6e-03}$	$1.95e - 01_{1.6e-04}$	$1.94e - 01_{5.2e-03}$	$1.96e - 01_{1.7e-04}$		
$WFG4_2$	$2.16e - 01_{8.9e-04}$	$2.16e - 01_{7.4e-04}$	$1.88e - 01_{2.2e-03}$	$2.17e - 01_{2.5e-04}$	$2.19e - 01_{3.0e-04}$	$2.18e - 01_{4.5e-04}$		
$WFG6_2$	$1.82e - 01_{1.1e-02}$	$1.84e - 01_{6.7e-03}$	$1.53e - 01_{1.4e-02}$	$1.84e - 01_{6.6e-03}$	$1.79e - 01_{9.0e-03}$	$1.84e - 01_{6.3e-03}$		
$WFG7_2$	$2.08e - 01_{6.1e-04}$	$2.09e - 01_{3.7e - 04}$	$2.05e - 01_{6.8e-04}$	$2.09e - 01_{5.4e-05}$	$2.10e - 01_{2.5e-04}$	$2.10e - 01_{2.0e-04}$		
$WFG8_{-2}$	$1.73e - 01_{1.2e-03}$	$1.75e - 01_{5.6e-04}$	$1.68e - 01_{3.5e-03}$	$1.77e - 01_{2.2e-03}$	$1.77e - 01_{8.1e-04}$	$1.76e - 01_{2.6e-03}$		
$WFG9_2$	$2.34e - 01_{3.2e-02}$	$1.76e - 01_{6.1e-02}$	$1.75e - 01_{5.0e-02}$	$2.32e - 01_{3.4e-02}$	$1.75e - 01_{3.0e-02}$	$2.29e - 01_{1.2e-02}$		
$WFG1_3$	$3.38e - 01_{1.9e-01}$	$4.04e - 01_{1.9e-01}$	$2.60e - 01_{9.1e-03}$	$3.92e - 01_{2.1e-01}$	$5.46e - 01_{3.3e-01}$	$8.15e - 01_{1.0e-01}$		
$WFG2_3$	$8.68e - 01_{1.1e-01}$	$7.78e - 01_{1.2e-01}$	$8.25e - 01_{1.2e-01}$	$8.89e - 01_{1.4e-01}$	$7.90e - 01_{1.2e-01}$	$7.86e - 01_{6.7e-02}$		
WFG3_3	$2.92e - 01_{2.3e-02}$	$2.64e - 01_{1.8e-02}$	$2.41e - 01_{2.1e-02}$	$2.13e - 01_{1.7e-02}$	$2.84e - 01_{2.1e-02}$	$2.98e - 01_{1.4e-02}$		
$WFG5\_3$	$3.39e - 01_{8.8e-03}$	$3.53e - 01_{1.1e-02}$	$3.41e - 01_{6.6e-03}$	$3.54e - 01_{5.0e-03}$	$3.54e - 01_{3.4e-02}$	$3.65e - 01_{5.4e-03}$		
$WFG4\_3$	$3.46e - 01_{8.8e-03}$	$3.58e - 01_{5.8e-03}$	$3.10e - 01_{1.1e-02}$	$3.79e - 01_{9.5e-03}$	$3.91e - 01_{9.8e-03}$	$3.92e - 01_{1.0e-02}$		
$WFG6_3$	$3.21e - 01_{3.0e - 02}$	$3.46e - 01_{1.5e-02}$	$3.09e - 01_{1.4e-02}$	$3.59e - 01_{2.4e-02}$	$3.51e - 01_{1.1e-02}$	$3.64e - 01_{1.6e-02}$		
$WFG7_3$	$3.49e - 01_{9.6e-03}$	$3.78e - 01_{6.1e-03}$	$3.22e - 01_{4.1e-02}$	$3.88e - 01_{8.8e-03}$	$4.01e - 01_{6.4e-03}$	$3.94e - 01_{4.2e-03}$		
$WFG8\_3$	$2.71e - 01_{1.5e-02}$	$2.95e - 01_{5.7e-03}$	$2.18e - 01_{4.9e-02}$	$3.05e - 01_{1.1e-02}$	$3.04e - 01_{8.9e-03}$	$2.99e - 01_{9.9e-03}$		
$WFG9\_3$	$2.92e - 01_{1.4e-02}$	$3.16e - 01_{2.7e-02}$	$3.06e - 01_{6.2e-03}$	$3.39e - 01_{4.3e-02}$	$3.17e - 01_{5.6e-02}$	$3.09e - 01_{2.3e-02}$		
$WFG1_5$	$1.20e - 01_{9.6e-02}$	$1.57e - 02_{1.3e-02}$	$2.58e - 01_{1.3e-01}$	$3.08e - 01_{6.9e-02}$	$4.23e - 01_{1.4e-01}$	$9.69e - 01_{1.6e-02}$		
$WFG2_{-5}$	$8.61e - 01_{6.4e-02}$	$8.18e - 01_{5.7e-02}$	$8.54e - 01_{7.1e-02}$	$8.76e - 01_{3.4e-03}$	$9.78e - 01_{1.8e-01}$	$9.26e - 01_{1.3e-02}$		
$WFG3_5$	$1.29e - 01_{2.5e-02}$	$0.00e + 00_{0.0e+00}$	$0.00e + 00_{1.4e-04}$	$4.20e - 03_{1.1e-02}$	$1.27e - 01_{6.8e-03}$	$1.64e - 01_{1.0e-02}$		
$WFG5\_5$	$4.44e - 01_{2.4e-02}$	$4.32e - 01_{3.3e-02}$	$5.08e - 01_{1.6e-02}$	$5.47e - 01_{4.6e-03}$	$5.70e - 01_{1.1e-01}$	$6.00e - 01_{5.4e-03}$		
$WFG4_5$	$3.49e - 01_{1.7e-02}$	$3.31e - 01_{1.8e-02}$	$2.89e - 01_{4.1e-02}$	$4.67e - 01_{4.4e-03}$	$5.18e - 01_{7.3e-03}$	$5.16e - 01_{1.0e-02}$		
$WFG6_{-5}$	$3.88e - 01_{1.9e-02}$	$4.08e - 01_{2.8e-02}$	$4.55e - 01_{3.5e-02}$	$5.51e - 01_{1.2e-02}$	$5.58e - 01_{4.4e-02}$	$5.95e - 01_{2.0e-02}$		
$WFG7\_5$	$3.03e - 01_{4.9e-02}$	$2.21e - 01_{6.3e-02}$	$2.55e - 01_{4.6e-02}$	$4.75e - 01_{6.4e-03}$	$5.32e - 01_{8.0e-03}$	$5.28e - 01_{2.4e-03}$		
$WFG8\_5$	$3.39e - 01_{2.8e-02}$	$2.89e - 01_{2.2e-02}$	$2.95e - 01_{7.6e-02}$	$4.75e - 01_{2.4e-03}$	$5.00e - 01_{1.3e - 02}$	$4.96e - 01_{4.4e-03}$		
WFG9_5	$3.87e - 01_{1.7e-02}$	$4.09e - 01_{8.1e-02}$	$4.97e - 01_{4.8e - 02}$	$5.44e - 01_{1.9e - 02}$	$5.39e - 01_{4.1e-02}$	$5.21e - 01_{1.4e-02}$		

Table 3: IGD+. Mean and Standard Deviation

	NSGAII	SPEA2	MOEADDRA	MOEADD	AGE-MOEA-II	ESPEA
WFG1_2	$3.84e - 02_{1.5e-02}$	$1.10e - 01_{8.5e-02}$	$3.04e - 01_{4.1e-02}$	$1.12e - 01_{7.5e-02}$	$4.48e - 02_{1.6e-02}$	$1.32e - 01_{6.4e-02}$
$WFG2_2$	$7.32e - 03_{4.4e-03}$	$2.82e - 03_{3.7e-04}$	$1.69e - 02_{2.7e-03}$	$9.07e - 03_{2.6e-03}$	$9.35e - 03_{3.3e-03}$	$8.39e - 03_{4.2e-03}$
$WFG3_2$	$2.24e - 02_{2.4e-04}$	$2.19e - 02_{2.7e-04}$	$2.20e - 02_{1.6e-04}$	$2.14e - 02_{2.2e-04}$	$2.14e - 02_{2.0e-04}$	$2.25e - 02_{8.0e-04}$
$WFG5_2$	$2.78e - 02_{4.7e-05}$	$2.76e - 02_{9.5e-05}$	$2.84e - 02_{1.1e-03}$	$2.74e - 02_{5.3e-05}$	$2.83e - 02_{1.4e-03}$	$2.71e - 02_{2.3e-05}$
$WFG4_2$	$4.01e - 03_{4.1e-04}$	$3.92e - 03_{2.1e-04}$	$2.18e - 02_{9.8e-04}$	$3.60e - 03_{1.1e-04}$	$2.60e - 03_{1.1e-04}$	$2.76e - 03_{1.9e-04}$
$WFG6_2$	$2.17e - 02_{5.9e-03}$	$2.18e - 02_{2.9e-03}$	$4.36e - 02_{1.1e-02}$	$2.25e - 02_{3.0e-03}$	$2.16e - 02_{5.5e-03}$	$2.06e - 02_{2.8e-03}$
$WFG7_2$	$4.02e - 03_{2.0e-04}$	$3.43e - 03_{2.1e-04}$	$5.90e - 03_{2.3e-04}$	$3.46e - 03_{1.4e-05}$	$2.73e - 03_{1.6e-04}$	$2.85e - 03_{6.0e-05}$
$WFG8_2$	$2.80e - 02_{7.8e-04}$	$2.71e - 02_{3.6e-04}$	$3.20e - 02_{1.4e-03}$	$2.52e - 02_{1.4e-03}$	$2.57e - 02_{5.0e-04}$	$2.52e - 02_{1.3e-03}$
$WFG9_2$	$1.63e - 02_{2.1e-02}$	$3.46e - 02_{2.7e-02}$	$3.75e - 02_{2.3e-02}$	$1.67e - 02_{2.1e-02}$	$4.44e - 02_{2.1e-02}$	$1.13e - 02_{4.8e-03}$
$WFG1_{-3}$	$3.80e - 01_{1.1e-01}$	$3.62e - 01_{8.8e-02}$	$5.09e - 01_{1.1e-02}$	$3.48e - 01_{9.8e-02}$	$1.82e - 01_{1.1e-01}$	$6.53e - 02_{3.1e-02}$
$WFG2_3$	$4.50e - 02_{8.7e-03}$	$3.12e - 02_{2.5e-03}$	$1.34e - 01_{2.8e-02}$	$5.23e - 02_{7.4e-03}$	$2.26e - 02_{4.7e-03}$	$2.57e - 02_{7.6e-04}$
$WFG3_3$	$4.66e - 02_{1.1e-02}$	$6.15e - 02_{9.5e-03}$	$5.42e - 02_{8.2e-03}$	$9.14e - 02_{9.9e-03}$	$4.23e - 02_{1.3e-02}$	$3.06e - 02_{7.7e-03}$
$WFG5_{-3}$	$5.28e - 02_{2.4e-03}$	$5.20e - 02_{4.8e-03}$	$5.46e - 02_{1.6e-03}$	$4.96e - 02_{1.2e-03}$	$5.23e - 02_{1.0e-02}$	$4.57e - 02_{1.2e-03}$
$WFG4_3$	$3.95e - 02_{3.0e-03}$	$4.56e - 02_{3.3e-03}$	$6.07e - 02_{3.5e-03}$	$3.37e - 02_{2.9e-03}$	$2.79e - 02_{1.8e-03}$	$2.62e - 02_{1.7e-03}$
$WFG6_3$	$5.71e - 02_{5.8e-03}$	$5.28e - 02_{3.1e-03}$	$6.62e - 02_{3.2e-03}$	$4.83e - 02_{6.0e-03}$	$4.70e - 02_{1.8e-03}$	$4.35e - 02_{3.4e-03}$
$WFG7_3$	$3.85e - 02_{2.6e-03}$	$3.73e - 02_{6.0e-03}$	$5.57e - 02_{1.0e - 02}$	$3.21e - 02_{2.8e - 03}$	$2.55e - 02_{1.4e - 03}$	$3.03e - 02_{9.0e-04}$
$WFG8_{-3}$	$8.02e - 02_{3.6e-03}$	$7.39e - 02_{2.6e-03}$	$1.08e - 01_{1.7e-02}$	$6.83e - 02_{3.8e-03}$	$6.58e - 02_{2.4e-03}$	$7.11e - 02_{2.9e-03}$
$WFG9\_3$	$6.51e - 02_{2.4e-03}$	$5.68e - 02_{7.9e-03}$	$6.37e - 02_{1.3e-03}$	$5.29e - 02_{9.3e-03}$	$4.70e - 02_{1.2e-02}$	$5.65e - 02_{8.0e-03}$
$WFG1_{-5}$	$6.58e - 01_{6.1e-02}$	$8.65e - 01_{4.4e-02}$	$4.82e - 01_{9.3e-02}$	$3.63e - 01_{3.0e-02}$	$2.85e - 01_{4.3e-02}$	$1.15e - 01_{1.6e - 02}$
$WFG2_5$	$1.83e - 01_{1.5e-02}$	$1.89e - 01_{1.2e-02}$	$8.72e - 02_{3.8e - 02}$	$6.63e - 02_{2.0e-03}$	$9.59e - 02_{4.4e-02}$	$1.67e - 01_{1.2e-02}$
$WFG3_{-}5$	$2.00e - 01_{2.3e-02}$	$7.94e - 01_{9.5e-02}$	$5.60e - 01_{9.3e-02}$	$3.87e - 01_{8.6e-02}$	$7.38e - 02_{3.2e-03}$	$3.96e - 02_{6.6e-03}$
$WFG5\_5$	$1.43e - 01_{1.0e-02}$	$1.50e - 01_{1.4e-02}$	$7.90e - 02_{3.4e-03}$	$6.25e - 02_{9.5e-04}$	$8.48e - 02_{9.8e-03}$	$7.72e - 02_{1.6e-03}$
$WFG4\_5$	$1.37e - 01_{9.9e - 03}$	$1.67e - 01_{5.3e-03}$	$1.63e - 01_{1.2e - 02}$	$9.35e - 02_{2.8e - 03}$	$8.93e - 02_{6.0e - 03}$	$1.09e - 01_{3.3e-03}$
$WFG6_5$	$1.61e - 01_{1.2e-02}$	$1.56e - 01_{7.6e-03}$	$9.94e - 02_{5.4e-03}$	$5.95e - 02_{2.4e - 03}$	$7.80e - 02_{3.2e - 03}$	$7.46e - 02_{4.7e-03}$
$WFG7_{-5}$	$1.73e - 01_{1.9e - 02}$	$2.13e - 01_{1.8e - 02}$	$1.68e - 01_{1.7e - 02}$	$7.87e - 02_{1.2e-03}$	$8.67e - 02_{3.3e-03}$	$1.10e - 01_{2.1e-03}$
$WFG8\_5$	$3.32e - 01_{9.4e-03}$	$2.76e - 01_{4.3e-03}$	$2.18e - 01_{1.8e-02}$	$1.52e - 01_{1.3e-03}$	$1.73e - 01_{2.6e - 03}$	$1.98e - 01_{7.4e-03}$
WFG9_5	$1.58e - 01_{1.1e-02}$	$1.67e - 01_{3.2e - 02}$	$8.28e - 02_{1.1e-02}$	$6.20e - 02_{3.7e - 03}$	$8.83e - 02_{1.4e-02}$	$9.83e - 02_{4.3e-03}$

Table 4: IGD+. Median and Interquartile Range								
	NSGAII	SPEA2	MOEADDRA	MOEADD	AGE-MOEA-II	ESPEA		
WFG1_2	$2.89e - 02_{2.8e-02}$	$7.19e - 02_{1.6e-01}$	$3.28e - 01_{7.3e-02}$	$7.29e - 02_{1.4e-01}$	$4.72e - 02_{2.9e-02}$	$1.16e - 01_{9.0e-02}$		
$WFG2_2$	$1.05e - 02_{8.1e-03}$	$2.73e - 03_{6.8e-04}$	$1.54e - 02_{4.8e-03}$	$9.89e - 03_{3.8e-03}$	$1.09e - 02_{4.4e-03}$	$1.01e - 02_{8.1e-03}$		
$WFG3_2$	$2.22e - 02_{4.6e-04}$	$2.19e - 02_{4.3e-04}$	$2.19e - 02_{2.9e-04}$	$2.14e - 02_{4.3e-04}$	$2.13e - 02_{3.7e-04}$	$2.22e - 02_{1.5e-03}$		
$WFG5_2$	$2.78e - 02_{6.1e-05}$	$2.76e - 02_{1.4e-04}$	$2.79e - 02_{1.9e-03}$	$2.74e - 02_{6.5e-05}$	$2.75e - 02_{2.1e-03}$	$2.71e - 02_{3.9e-05}$		
$WFG4_2$	$3.97e - 03_{7.2e-04}$	$3.85e - 03_{4.0e-04}$	$2.20e - 02_{1.7e-03}$	$3.55e - 03_{1.7e-04}$	$2.60e - 03_{2.0e-04}$	$2.64e - 03_{3.5e-04}$		
$WFG6_2$	$2.31e - 02_{8.8e-03}$	$2.12e - 02_{5.6e-03}$	$4.87e - 02_{1.3e-02}$	$2.09e - 02_{5.6e-03}$	$2.32e - 02_{7.6e-03}$	$2.15e - 02_{5.1e-03}$		
$WFG7_2$	$4.09e - 03_{3.7e-04}$	$3.49e - 03_{3.9e-04}$	$6.02e - 03_{3.2e-04}$	$3.46e - 03_{2.4e-05}$	$2.64e - 03_{2.9e-04}$	$2.87e - 03_{1.0e-04}$		
$WFG8_2$	$2.81e - 02_{1.2e-03}$	$2.69e - 02_{6.7e-04}$	$3.25e - 02_{2.6e-03}$	$2.52e - 02_{2.7e-03}$	$2.56e - 02_{8.2e-04}$	$2.52e - 02_{2.6e-03}$		
$WFG9_2$	$6.55e - 03_{2.5e-02}$	$5.40e - 02_{4.9e-02}$	$5.39e - 02_{4.1e-02}$	$8.07e - 03_{2.6e-02}$	$5.40e - 02_{2.4e-02}$	$1.05e - 02_{8.3e-03}$		
$WFG1_3$	$4.26e - 01_{1.6e-01}$	$3.68e - 01_{1.5e-01}$	$5.13e - 01_{1.5e-02}$	$3.63e - 01_{1.6e-01}$	$2.46e - 01_{2.1e-01}$	$8.01e - 02_{5.9e-02}$		
$WFG2_3$	$4.63e - 02_{1.6e-02}$	$3.06e - 02_{3.7e-03}$	$1.24e - 01_{4.4e-02}$	$5.64e - 02_{1.3e-02}$	$2.31e - 02_{6.8e-03}$	$2.54e - 02_{1.5e-03}$		
$WFG3_3$	$4.35e - 02_{1.8e-02}$	$6.06e - 02_{1.7e-02}$	$5.12e - 02_{1.5e-02}$	$9.36e - 02_{1.9e-02}$	$4.17e - 02_{2.3e-02}$	$3.04e - 02_{1.3e-02}$		
$WFG5\_3$	$5.17e - 02_{4.4e-03}$	$5.10e - 02_{8.9e-03}$	$5.52e - 02_{2.4e-03}$	$5.01e - 02_{2.1e-03}$	$4.83e - 02_{1.2e-02}$	$4.62e - 02_{1.8e-03}$		
$WFG4_3$	$4.06e - 02_{5.2e-03}$	$4.64e - 02_{5.8e-03}$	$6.07e - 02_{6.2e-03}$	$3.49e - 02_{4.2e-03}$	$2.80e - 02_{2.9e-03}$	$2.58e - 02_{3.1e-03}$		
$WFG6_3$	$5.86e - 02_{1.0e-02}$	$5.21e - 02_{5.6e-03}$	$6.80e - 02_{6.1e-03}$	$4.69e - 02_{1.0e-02}$	$4.67e - 02_{3.4e-03}$	$4.36e - 02_{6.6e-03}$		
$WFG7_3$	$3.87e - 02_{4.9e-03}$	$3.65e - 02_{1.0e-02}$	$5.86e - 02_{2.0e-02}$	$3.35e - 02_{5.3e-03}$	$2.53e - 02_{2.4e-03}$	$3.02e - 02_{1.6e-03}$		
$WFG8\_3$	$8.09e - 02_{7.0e-03}$	$7.39e - 02_{5.1e-03}$	$1.13e - 01_{3.0e-02}$	$7.04e - 02_{6.4e-03}$	$6.69e - 02_{4.5e-03}$	$7.04e - 02_{5.3e-03}$		
$WFG9_3$	$6.50e - 02_{4.5e-03}$	$5.96e - 02_{1.4e-02}$	$6.32e - 02_{2.3e-03}$	$4.88e - 02_{1.8e-02}$	$5.56e - 02_{2.3e-02}$	$5.96e - 02_{9.9e-03}$		
$WFG1_5$	$6.84e - 01_{1.1e-01}$	$8.44e - 01_{6.7e - 02}$	$4.46e - 01_{1.5e-01}$	$3.71e - 01_{4.8e-02}$	$2.82e - 01_{8.4e-02}$	$1.10e - 01_{2.5e-02}$		
$WFG2_5$	$1.87e - 01_{2.3e-02}$	$1.87e - 01_{2.2e-02}$	$7.07e - 02_{4.6e-02}$	$6.66e - 02_{3.9e-03}$	$6.56e - 02_{8.1e-02}$	$1.65e - 01_{2.3e-02}$		
$WFG3_5$	$1.96e - 01_{4.4e-02}$	$8.33e - 01_{1.6e-01}$	$5.85e - 01_{1.7e-01}$	$4.18e - 01_{1.6e-01}$	$7.56e - 02_{5.7e-03}$	$3.51e - 02_{1.2e-02}$		
$WFG5\_5$	$1.39e - 01_{1.3e-02}$	$1.45e - 01_{1.8e-02}$	$7.81e - 02_{5.3e-03}$	$6.27e - 02_{1.8e-03}$	$7.89e - 02_{1.8e-02}$	$7.69e - 02_{2.4e-03}$		
$WFG4_5$	$1.39e - 01_{1.9e-02}$	$1.69e - 01_{9.6e-03}$	$1.62e - 01_{2.2e-02}$	$9.43e - 02_{4.6e-03}$	$9.07e - 02_{1.1e-02}$	$1.09e - 01_{6.4e-03}$		
$WFG6_5$	$1.65e - 01_{2.3e-02}$	$1.58e - 01_{1.5e-02}$	$9.67e - 02_{9.5e-03}$	$5.99e - 02_{3.8e-03}$	$7.80e - 02_{5.6e-03}$	$7.34e - 02_{9.1e-03}$		
$WFG7_5$	$1.76e - 01_{3.2e-02}$	$2.17e - 01_{3.5e-02}$	$1.76e - 01_{3.2e-02}$	$7.83e - 02_{1.8e-03}$	$8.63e - 02_{6.4e-03}$	$1.11e - 01_{3.8e-03}$		
$WFG8\_5$	$3.29e - 01_{1.8e-02}$	$2.75e - 01_{6.9e-03}$	$2.18e - 01_{3.2e-02}$	$1.51e - 01_{2.3e-03}$	$1.72e - 01_{5.0e-03}$	$2.01e - 01_{1.3e-02}$		
$WFG9_5$	$1.62e - 01_{2.1e-02}$	$1.60e - 01_{4.7e-02}$	$8.26e - 02_{2.1e-02}$	$6.03e - 02_{5.9e-03}$	$9.31e - 02_{1.9e-02}$	$9.76e - 02_{7.3e-03}$		