TABLE S8

AVERAGED IGD VALUE OBTAINED BY NSGA-II, MOMFEA, EBS, MᴀTEA AND EMᴀTO-MKT OF TASK$_1$ TO TASK$_{50}$ ON CEC19-MOMATP1 AND CEC19-MOMATP2 PROBLEMS AFTER 30 INDEPENDENT RUNS, WHERE THE BOLD IS THE BEST RESULT OF ALL ALGORITHMS.
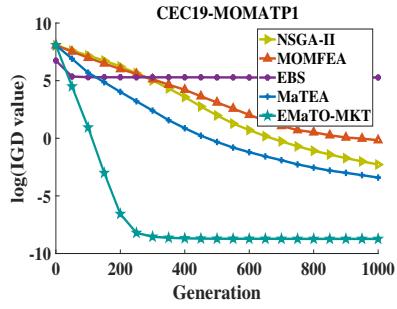
task	CEC19-MOMATP1					CEC19-MOMATP2				
	NSGA-II	MOMFEA	EBS	MaTEA	EMaTO-MKT	NSGA-II	MOMFEA	EBS	MaTEA	EMaTO-MKT
T_1	1.03E-01	8.46E-01	1.95E+02	3.30E-02	**1.61E-04**	5.26E-02	1.73E-01	3.05E+00	2.91E-02	**1.77E-04**
T_2	6.58E+01	9.65E-01	2.16E+02	3.33E-02	**1.60E-04**	5.15E-02	1.76E-01	3.09E+00	2.91E-02	**1.77E-04**
T_3	5.29E+01	7.14E-01	1.65E+02	3.31E-02	**1.61E-04**	5.01E-02	1.66E-01	3.05E+00	2.97E-02	**1.79E-04**
T_4	1.06E+02	7.26E-01	1.23E+02	3.19E-02	**1.61E-04**	5.25E-02	1.72E-01	2.99E+00	2.42E-02	**1.77E-04**
T_5	5.29E+01	8.37E-01	1.83E+02	2.88E-02	**1.60E-04**	5.02E-02	1.71E-01	3.09E+00	2.75E-02	**1.77E-04**
T_6	1.19E-01	7.51E-01	1.58E+02	3.57E-02	**1.62E-04**	5.18E-02	1.75E-01	3.11E+00	2.86E-02	**1.76E-04**
T_7	1.29E-01	6.58E-01	1.35E+02	3.04E-02	**1.61E-04**	4.95E-02	1.71E-01	3.15E+00	2.60E-02	**1.77E-04**
T_8	1.59E+02	7.39E-01	1.68E+02	3.37E-02	**1.59E-04**	5.08E-02	1.55E-01	3.09E+00	3.11E-02	**1.79E-04**
T_9	9.80E-02	6.70E-01	1.43E+02	2.76E-02	**1.59E-04**	5.00E-02	1.83E-01	3.14E+00	2.84E-02	**1.79E-04**
T_{10}	1.04E-01	7.36E-01	1.71E+02	3.05E-02	**1.59E-04**	4.96E-02	1.83E-01	3.21E+00	3.17E-02	**1.76E-04**
T_{11}	5.29E+01	6.54E-01	1.24E+02	2.93E-02	**1.60E-04**	5.01E-02	1.78E-01	3.21E+00	2.74E-02	**1.76E-04**
T_{12}	1.09E-01	6.63E-01	1.35E+02	3.08E-02	**1.60E-04**	5.20E-02	1.75E-01	3.26E+00	2.83E-02	**1.75E-04**
T_{13}	1.10E-01	9.11E-01	1.82E+02	3.20E-02	**1.59E-04**	4.67E-02	1.69E-01	2.99E+00	2.99E-02	**1.80E-04**
T_{14}	5.29E+01	7.18E-01	1.33E+02	3.48E-02	**1.60E-04**	5.04E-02	1.69E-01	3.00E+00	3.05E-02	**1.75E-04**
T_{15}	5.29E+01	7.71E-01	2.15E+02	3.36E-02	**1.60E-04**	4.91E-02	1.62E-01	2.61E+00	2.89E-02	**1.79E-04**
T_{16}	5.30E+01	7.76E-01	1.68E+02	3.23E-02	**1.61E-04**	4.97E-02	1.72E-01	3.35E+00	2.96E-02	**1.76E-04**
T_{17}	1.15E-01	8.06E-01	1.75E+02	3.31E-02	**1.60E-04**	5.01E-02	1.73E-01	3.00E+00	2.60E-02	**1.76E-04**
T_{18}	9.30E-02	8.09E-01	1.97E+02	3.22E-02	**1.58E-04**	5.18E-02	1.76E-01	3.34E+00	2.97E-02	**1.75E-04**
T_{19}	1.09E-01	9.00E-01	1.97E+02	3.07E-02	**1.60E-04**	4.86E-02	1.63E-01	3.01E+00	2.83E-02	**1.75E-04**
T_{20}	1.09E-01	6.94E-01	1.52E+02	3.05E-02	**1.61E-04**	5.13E-02	1.70E-01	3.22E+00	2.75E-02	**1.74E-04**
T_{21}	1.14E-01	6.21E-01	1.17E+02	2.66E-02	**1.63E-04**	5.40E-02	1.72E-01	3.03E+00	3.23E-02	**1.78E-04**
T_{22}	5.29E+01	8.62E-01	1.76E+02	3.27E-02	**1.62E-04**	4.78E-02	1.65E-01	2.75E+00	2.73E-02	**1.77E-04**
T_{23}	1.48E-01	7.58E-01	1.61E+02	3.28E-02	**1.59E-04**	5.04E-02	1.81E-01	3.27E+00	2.78E-02	**1.75E-04**
T_{24}	5.52E+01	6.66E-01	1.50E+02	3.46E-02	**1.60E-04**	4.55E-02	1.71E-01	3.31E+00	2.87E-02	**1.77E-04**
T_{25}	1.27E-01	7.34E-01	1.57E+02	3.00E-02	**1.59E-04**	4.88E-02	1.66E-01	2.88E+00	2.38E-02	**1.73E-04**
T_{26}	2.19E-01	8.19E-01	1.66E+02	3.02E-02	**1.60E-04**	4.79E-02	1.81E-01	3.25E+00	2.95E-02	**1.76E-04**
T_{27}	1.21E-01	7.18E-01	1.56E+02	3.06E-02	**1.62E-04**	4.86E-02	1.91E-01	3.36E+00	2.64E-02	**1.76E-04**
T_{28}	1.06E-01	7.80E-01	1.88E+02	3.20E-02	**1.59E-04**	4.66E-02	1.59E-01	2.97E+00	2.75E-02	**1.79E-04**
T_{29}	1.36E-01	6.64E-01	1.40E+02	2.82E-02	**1.59E-04**	4.86E-02	1.61E-01	2.59E+00	3.04E-02	**1.79E-04**
T_{30}	1.13E-01	8.53E-01	1.67E+02	2.73E-02	**1.59E-04**	4.94E-02	1.70E-01	3.02E+00	3.40E-02	**1.77E-04**
T_{31}	5.30E+01	6.85E-01	1.41E+02	3.46E-02	**1.59E-04**	4.29E-02	1.69E-01	3.37E+00	2.79E-02	**1.76E-04**
T_{32}	1.23E-01	9.34E-01	2.05E+02	3.13E-02	**1.61E-04**	4.85E-02	1.70E-01	2.95E+00	3.17E-02	**1.76E-04**
T_{33}	1.06E+02	7.86E-01	1.84E+02	3.19E-02	**1.61E-04**	5.03E-02	1.67E-01	3.35E+00	3.06E-02	**1.77E-04**
T_{34}	5.30E+01	7.48E-01	1.96E+02	2.96E-02	**1.59E-04**	4.88E-02	1.67E-01	2.53E+00	2.90E-02	**1.76E-04**
T_{35}	5.29E+01	8.05E-01	1.94E+02	3.46E-02	**1.59E-04**	5.15E-02	1.84E-01	3.58E+00	3.16E-02	**1.75E-04**
T_{36}	1.07E-01	7.76E-01	1.74E+02	2.94E-02	**1.59E-04**	4.98E-02	1.80E-01	3.44E+00	2.93E-02	**1.77E-04**
T_{37}	1.39E-01	7.73E-01	1.47E+02	3.19E-02	**1.62E-04**	5.02E-02	1.76E-01	2.99E+00	3.01E-02	**1.78E-04**
T_{38}	1.11E-01	7.20E-01	1.43E+02	3.23E-02	**1.61E-04**	4.78E-02	1.91E-01	3.24E+00	3.07E-02	**1.80E-04**
T_{39}	1.39E-01	7.49E-01	1.64E+02	3.40E-02	**1.60E-04**	4.92E-02	1.68E-01	2.87E+00	2.92E-02	**1.76E-04**
T_{40}	1.03E-01	7.67E-01	1.80E+02	3.56E-02	**1.61E-04**	5.24E-02	1.58E-01	3.17E+00	2.82E-02	**1.75E-04**
T_{41}	1.09E-01	7.84E-01	1.70E+02	3.17E-02	**1.60E-04**	4.79E-02	1.77E-01	3.07E+00	2.63E-02	**1.76E-04**
T_{42}	1.02E-01	6.79E-01	1.51E+02	2.86E-02	**1.60E-04**	5.08E-02	1.86E-01	3.28E+00	3.00E-02	**1.77E-04**
T_{43}	1.36E-01	7.50E-01	1.87E+02	3.23E-02	**1.60E-04**	5.02E-02	1.73E-01	3.32E+00	2.60E-02	**1.78E-04**
T_{44}	5.29E+01	6.63E-01	1.74E+02	3.11E-02	**1.61E-04**	4.96E-02	1.62E-01	2.71E+00	2.66E-02	**1.76E-04**
T_{45}	1.04E-01	1.02E+00	2.53E+02	3.24E-02	**1.60E-04**	4.70E-02	1.80E-01	3.32E+00	3.02E-02	**1.76E-04**
T_{46}	1.21E-01	7.36E-01	1.77E+02	2.97E-02	**1.62E-04**	4.85E-02	1.52E-01	2.67E+00	2.80E-02	**1.74E-04**
T_{47}	9.73E-02	8.03E-01	1.79E+02	3.45E-02	**1.61E-04**	4.89E-02	1.74E-01	3.13E+00	2.96E-02	**1.75E-04**
T_{48}	5.29E+01	6.63E-01	1.60E+02	3.08E-02	**1.62E-04**	4.94E-02	1.68E-01	3.25E+00	2.95E-02	**1.77E-04**
T_{49}	1.24E-01	9.59E-01	1.94E+02	3.06E-02	**1.62E-04**	5.14E-02	1.72E-01	2.87E+00	2.97E-02	**1.77E-04**
T_{50}	1.24E-01	7.84E-01	1.98E+02	3.15E-02	**1.59E-04**	5.01E-02	1.65E-01	3.28E+00	2.64E-02	**1.75E-04**

TABLE S9
AVERAGED IGD VALUE OBTAINED BY NSGA-II, MOMFEA, EBS, MᴀTEA AND EMᴀTO-MKT OF TASK$_1$ TO TASK$_{50}$ ON CEC19-MOMATP3 AND CEC19-MOMATP4 PROBLEMS AFTER 30 INDEPENDENT RUNS, WHERE THE BOLD IS THE BEST RESULT OF ALL ALGORITHMS.
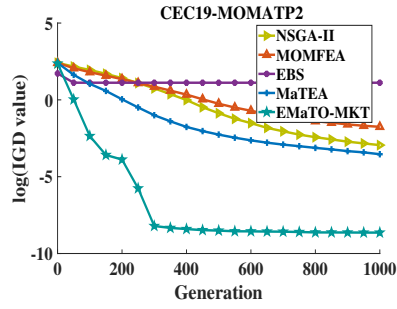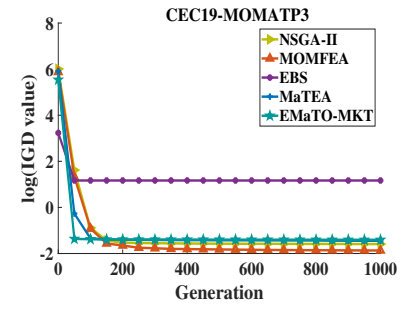
task	CEC19-MOMATP3					CEC19-MOMATP4				
	NSGA-II	MOMFEA	EBS	MaTEA	EMaTO-MKT	NSGA-II	MOMFEA	EBS	MaTEA	EMaTO-MKT
T$_1$	2.01E-01	1.96E-01	1.71E+00	**1.77E-01**	2.43E-01	1.30E+00	1.74E+00	1.11E+01	**8.15E-01**	1.22E+00
T$_2$	**1.21E-01**	1.25E-01	2.42E+00	1.75E-01	2.34E-01	1.41E+00	1.67E+00	1.17E+01	**8.28E-01**	1.18E+00
T$_3$	1.88E-01	2.14E-01	3.90E+00	**1.54E-01**	2.37E-01	1.34E+00	1.69E+00	1.18E+01	**7.90E-01**	1.30E+00
T$_4$	**1.67E-01**	1.76E-01	2.72E+00	1.97E-01	2.43E-01	1.38E+00	1.67E+00	1.05E+01	**7.66E-01**	1.22E+00
T$_5$	**1.25E-01**	1.43E-01	3.82E+00	1.63E-01	2.46E-01	1.39E+00	1.62E+00	1.18E+01	**9.13E-01**	1.16E+00
T$_6$	1.81E-01	**1.74E-01**	3.08E+00	2.20E-01	2.42E-01	1.37E+00	1.63E+00	1.15E+01	**9.01E-01**	1.23E+00
T$_7$	1.39E-01	**1.32E-01**	1.98E+00	1.81E-01	2.49E-01	1.33E+00	1.58E+00	1.19E+01	**8.26E-01**	1.18E+00
T$_8$	**1.42E-01**	1.85E-01	3.76E+00	1.94E-01	2.37E-01	1.28E+00	1.67E+00	1.11E+01	**9.19E-01**	9.96E-01
T$_9$	**1.66E-01**	1.89E-01	2.23E+00	1.83E-01	2.43E-01	1.33E+00	1.72E+00	1.10E+01	**7.80E-01**	1.20E+00
T$_{10}$	2.38E-01	1.78E-01	2.01E+00	**8.27E-02**	2.38E-01	1.56E+00	1.66E+00	1.21E+01	**8.10E-01**	1.14E+00
T$_{11}$	2.10E-01	**1.63E-01**	4.01E+00	1.69E-01	2.49E-01	1.42E+00	1.67E+00	1.23E+01	**8.23E-01**	1.12E+00
T$_{12}$	**1.63E-01**	2.23E-01	3.23E+00	1.80E-01	2.38E-01	1.38E+00	1.64E+00	1.15E+01	**8.59E-01**	1.16E+00
T$_{13}$	**1.72E-01**	2.07E-01	2.62E+00	2.23E-01	2.49E-01	1.58E+00	1.73E+00	1.08E+01	**8.95E-01**	1.41E+00
T$_{14}$	1.25E-01	2.15E-01	7.45E-01	**1.11E-01**	2.37E-01	1.36E+00	1.66E+00	1.12E+01	**8.28E-01**	1.25E+00
T$_{15}$	1.97E-01	**1.86E-01**	2.73E+00	2.19E-01	2.50E-01	1.37E+00	1.70E+00	1.22E+01	**8.87E-01**	1.26E+00
T$_{16}$	1.77E-01	1.42E-01	2.88E+00	**5.54E-02**	2.29E-01	1.42E+00	1.63E+00	1.20E+01	**8.26E-01**	1.14E+00
T$_{17}$	2.30E-01	1.92E-01	2.89E+00	**1.63E-01**	2.09E-01	1.46E+00	1.68E+00	1.22E+01	**9.37E-01**	1.23E+00
T$_{18}$	1.54E-01	**1.24E-01**	2.67E+00	1.57E-01	2.34E-01	1.67E+00	1.63E+00	1.13E+01	**9.03E-01**	1.17E+00
T$_{19}$	1.62E-01	1.61E-01	2.97E+00	**1.36E-01**	2.39E-01	1.38E+00	1.60E+00	1.13E+01	**8.70E-01**	1.14E+00
T$_{20}$	1.86E-01	2.02E-01	1.86E+00	**1.46E-01**	2.47E-01	1.44E+00	1.71E+00	1.18E+01	**8.32E-01**	1.29E+00
T$_{21}$	1.74E-01	1.62E-01	1.13E+00	**1.52E-01**	2.42E-01	1.40E+00	1.69E+00	1.16E+01	**8.39E-01**	1.30E+00
T$_{22}$	1.15E-01	1.34E-01	4.29E+00	**8.83E-02**	2.33E-01	1.56E+00	1.65E+00	1.20E+01	**8.80E-01**	1.18E+00
T$_{23}$	**1.59E-01**	1.62E-01	3.67E+00	1.98E-01	2.51E-01	1.53E+00	1.71E+00	1.21E+01	**9.63E-01**	1.18E+00
T$_{24}$	**1.58E-01**	1.87E-01	3.83E+00	2.12E-01	2.23E-01	1.35E+00	1.66E+00	1.20E+01	**9.06E-01**	1.23E+00
T$_{25}$	**1.77E-01**	2.10E-01	3.62E+00	1.90E-01	2.47E-01	1.52E+00	1.69E+00	1.18E+01	**7.73E-01**	1.21E+00
T$_{26}$	1.95E-01	**1.18E-01**	2.09E+00	1.76E-01	2.46E-01	1.25E+00	1.64E+00	1.18E+01	**8.15E-01**	1.19E+00
T$_{27}$	2.30E-01	2.19E-01	4.48E+00	**1.74E-01**	2.49E-01	1.49E+00	1.69E+00	1.18E+01	**7.79E-01**	1.24E+00
T$_{28}$	2.03E-01	**1.63E-01**	2.50E+00	1.65E-01	2.39E-01	1.37E+00	1.61E+00	1.01E+01	**8.60E-01**	1.24E+00
T$_{29}$	**1.37E-01**	1.91E-01	1.76E+00	1.94E-01	2.47E-01	1.37E+00	1.68E+00	1.14E+01	**9.02E-01**	1.33E+00
T$_{30}$	1.06E-01	1.60E-01	2.59E+00	**9.28E-02**	2.23E-01	1.41E+00	1.65E+00	1.12E+01	**8.92E-01**	1.15E+00
T$_{31}$	2.12E-01	**1.95E-01**	2.13E+00	1.97E-01	2.48E-01	1.51E+00	1.67E+00	1.21E+01	**7.82E-01**	1.14E+00
T$_{32}$	1.39E-01	2.02E-01	2.35E+00	**1.11E-01**	2.47E-01	1.33E+00	1.65E+00	1.20E+01	**7.61E-01**	1.27E+00
T$_{33}$	1.97E-01	**1.93E-01**	4.72E+00	1.96E-01	2.40E-01	1.37E+00	1.62E+00	1.13E+01	**8.41E-01**	1.21E+00
T$_{34}$	1.81E-01	1.56E-01	1.21E+00	**1.37E-01**	2.41E-01	1.42E+00	1.71E+00	1.16E+01	**7.29E-01**	1.05E+00
T$_{35}$	1.17E-01	1.20E-01	1.89E+00	**1.08E-01**	2.45E-01	1.45E+00	1.58E+00	1.12E+01	**8.07E-01**	1.20E+00
T$_{36}$	1.56E-01	1.63E-01	2.72E+00	**1.20E-01**	2.36E-01	1.50E+00	1.63E+00	1.16E+01	**8.19E-01**	1.32E+00
T$_{37}$	1.41E-01	**1.16E-01**	3.00E+00	1.39E-01	2.28E-01	1.38E+00	1.65E+00	1.17E+01	**7.45E-01**	1.15E+00
T$_{38}$	1.39E-01	**1.34E-01**	2.82E+00	1.77E-01	2.46E-01	1.42E+00	1.61E+00	1.14E+01	**8.61E-01**	1.28E+00
T$_{39}$	1.60E-01	**1.23E-01**	4.13E+00	1.64E-01	2.03E-01	1.50E+00	1.70E+00	1.08E+01	**8.31E-01**	1.23E+00
T$_{40}$	**1.82E-01**	2.13E-01	3.07E+00	2.44E-01	2.51E-01	1.50E+00	1.61E+00	1.13E+01	**7.56E-01**	1.19E+00
T$_{41}$	**1.46E-01**	1.57E-01	2.72E+00	1.75E-01	2.06E-01	1.46E+00	1.72E+00	1.21E+01	**8.33E-01**	1.30E+00
T$_{42}$	9.29E-02	**5.50E-02**	2.26E+00	1.00E-01	2.47E-01	1.44E+00	1.68E+00	1.24E+01	**7.92E-01**	9.91E-01
T$_{43}$	**1.31E-01**	1.58E-01	1.38E+00	1.39E-01	2.07E-01	1.47E+00	1.72E+00	1.10E+01	**7.96E-01**	1.21E+00
T$_{44}$	1.63E-01	1.61E-01	4.40E+00	**1.31E-01**	2.43E-01	1.55E+00	1.68E+00	1.23E+01	**7.89E-01**	1.18E+00
T$_{45}$	1.91E-01	**1.56E-01**	3.67E+00	1.64E-01	2.36E-01	1.50E+00	1.66E+00	1.18E+01	**8.84E-01**	1.40E+00
T$_{46}$	1.66E-01	1.46E-01	3.11E+00	**1.27E-01**	2.41E-01	1.46E+00	1.61E+00	1.16E+01	**8.45E-01**	1.18E+00
T$_{47}$	**1.13E-01**	2.15E-01	2.62E+00	1.82E-01	2.37E-01	1.44E+00	1.68E+00	1.22E+01	**8.41E-01**	1.13E+00
T$_{48}$	**1.47E-01**	2.00E-01	1.34E+00	1.72E-01	2.43E-01	1.45E+00	1.66E+00	1.21E+01	**8.57E-01**	1.25E+00
T$_{49}$	2.26E-01	5.50E-01	3.57E+00	**1.31E-01**	5.63E-01	1.40E+00	1.56E+00	1.16E+01	**7.67E-01**	1.19E+00
T$_{50}$	2.04E-01	**1.54E-01**	3.22E+00	2.35E-01	2.45E-01	1.50E+00	1.72E+00	1.18E+01	**8.02E-01**	1.30E+00

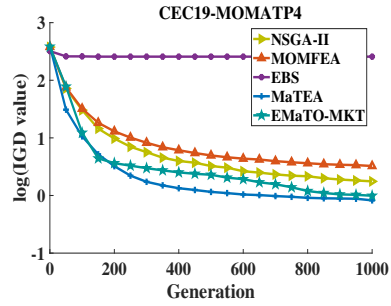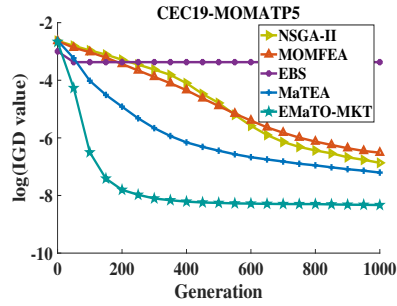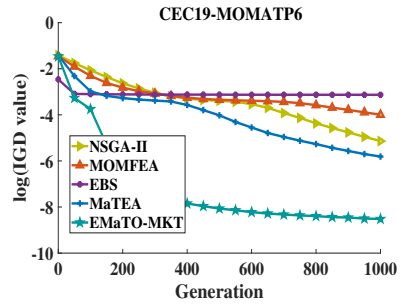| task	CEC19-MOMATP5					CEC19-MOMATP6				
	NSGA-II	MOMFEA	EBS	MaTEA	EMaTO-MKT	NSGA-II	MOMFEA	EBS	MaTEA	EMaTO-MKT
T$_1$	1.04E-03	1.48E-03	3.44E-02	7.43E-04	**2.41E-04**	5.87E-03	1.84E-02	4.37E-02	3.00E-03	**2.00E-04**
T$_2$	1.10E-02	1.45E-03	3.40E-02	7.49E-04	**2.42E-04**	7.31E-03	1.94E-02	4.48E-02	3.52E-03	**1.79E-04**
T$_3$	1.10E-02	1.39E-03	3.32E-02	7.26E-04	**2.41E-04**	7.01E-03	2.03E-02	4.58E-02	3.58E-03	**1.95E-04**
T$_4$	1.09E-02	1.47E-03	3.34E-02	7.32E-04	**2.42E-04**	1.06E-02	1.85E-02	4.39E-02	3.39E-03	**1.81E-04**
T$_5$	9.10E-03	1.42E-03	3.15E-02	7.04E-04	**2.37E-04**	1.50E-02	1.89E-02	4.71E-02	3.37E-03	**1.82E-04**
T$_6$	5.94E-03	1.36E-03	3.16E-02	7.51E-04	**2.40E-04**	6.35E-03	1.86E-02	4.57E-02	3.30E-03	**1.87E-04**
T$_7$	2.03E-02	1.51E-03	3.52E-02	7.16E-04	**2.42E-04**	1.67E-02	1.95E-02	4.57E-02	3.25E-03	**1.89E-04**
T$_8$	1.48E-02	1.41E-03	3.10E-02	7.66E-04	**2.41E-04**	1.02E-02	1.87E-02	4.32E-02	3.68E-03	**1.80E-04**
T$_9$	1.01E-02	1.44E-03	3.46E-02	7.45E-04	**2.45E-04**	6.38E-03	2.03E-02	4.54E-02	3.54E-03	**1.95E-04**
T$_{10}$	2.07E-02	1.50E-03	3.58E-02	7.12E-04	**2.41E-04**	5.99E-03	1.83E-02	4.41E-02	3.22E-03	**1.87E-04**
T$_{11}$	9.32E-03	1.39E-03	3.15E-02	7.27E-04	**2.39E-04**	1.17E-02	1.79E-02	4.38E-02	3.56E-03	**1.93E-04**
T$_{12}$	9.84E-03	1.40E-03	3.35E-02	6.97E-04	**2.45E-04**	1.33E-02	1.83E-02	4.58E-02	3.34E-03	**1.84E-04**
T$_{13}$	6.00E-03	1.43E-03	3.49E-02	7.20E-04	**2.43E-04**	7.32E-03	1.98E-02	4.50E-02	3.64E-03	**1.91E-04**
T$_{14}$	1.30E-03	1.40E-03	3.50E-02	7.64E-04	**2.42E-04**	6.27E-03	1.96E-02	4.37E-02	3.70E-03	**2.33E-04**
T$_{15}$	1.03E-03	1.41E-03	3.24E-02	7.54E-04	**2.44E-04**	6.66E-03	1.95E-02	4.50E-02	3.60E-03	**2.37E-04**
T$_{16}$	5.48E-03	1.43E-03	3.45E-02	7.17E-04	**2.44E-04**	7.58E-03	1.80E-02	4.46E-02	3.19E-03	**1.79E-04**
T$_{17}$	1.53E-03	1.44E-03	3.23E-02	7.22E-04	**2.39E-04**	6.13E-03	1.82E-02	4.40E-02	3.26E-03	**1.91E-04**
T$_{18}$	1.66E-02	1.39E-03	3.21E-02	6.92E-04	**2.42E-04**	1.51E-02	2.18E-02	4.96E-02	3.64E-03	**2.39E-04**
T$_{19}$	1.12E-03	1.48E-03	3.47E-02	7.44E-04	**2.42E-04**	5.79E-03	1.75E-02	4.18E-02	3.49E-03	**2.17E-04**
T$_{20}$	2.02E-03	1.46E-03	3.46E-02	7.65E-04	**2.43E-04**	1.15E-02	2.17E-02	4.83E-02	3.51E-03	**1.83E-04**
T$_{21}$	1.19E-02	1.45E-03	3.45E-02	7.44E-04	**2.36E-04**	1.21E-02	1.77E-02	4.22E-02	3.64E-03	**1.89E-04**
T$_{22}$	1.01E-03	1.50E-03	3.30E-02	7.31E-04	**2.36E-04**	6.42E-03	1.85E-02	4.25E-02	2.90E-03	**2.02E-04**
T$_{23}$	1.06E-02	1.41E-03	3.44E-02	7.53E-04	**2.43E-04**	1.27E-02	1.99E-02	4.26E-02	3.32E-03	**2.24E-04**
T$_{24}$	6.76E-03	1.50E-03	3.56E-02	7.79E-04	**2.45E-04**	6.82E-03	1.98E-02	4.53E-02	3.13E-03	**1.84E-04**
T$_{25}$	1.22E-03	1.42E-03	3.41E-02	7.20E-04	**2.46E-04**	1.14E-02	1.92E-02	4.34E-02	3.50E-03	**1.87E-04**
T$_{26}$	5.52E-03	1.41E-03	3.36E-02	7.45E-04	**2.44E-04**	1.65E-02	1.89E-02	4.51E-02	3.26E-03	**1.95E-04**
T$_{27}$	5.28E-03	1.40E-03	3.39E-02	7.50E-04	**2.38E-04**	1.57E-02	2.08E-02	4.82E-02	3.61E-03	**2.35E-04**
T$_{28}$	1.20E-02	1.41E-03	3.38E-02	7.08E-04	**2.40E-04**	6.49E-03	1.81E-02	4.61E-02	3.31E-03	**2.34E-04**
T$_{29}$	9.73E-03	1.41E-03	3.41E-02	7.05E-04	**2.39E-04**	6.62E-03	1.91E-02	4.35E-02	3.45E-03	**1.87E-04**
T$_{30}$	1.36E-02	1.39E-03	3.51E-02	7.00E-04	**2.41E-04**	9.70E-03	1.89E-02	4.53E-02	3.75E-03	**1.82E-04**
T$_{31}$	7.53E-03	1.38E-03	3.21E-02	7.24E-04	**2.45E-04**	6.90E-03	1.90E-02	4.34E-02	3.03E-03	**1.78E-04**
T$_{32}$	1.19E-02	1.47E-03	3.55E-02	7.38E-04	**2.38E-04**	1.24E-02	2.01E-02	4.51E-02	3.30E-03	**1.86E-04**
T$_{33}$	3.78E-03	1.36E-03	3.14E-02	7.12E-04	**2.43E-04**	7.60E-03	2.07E-02	4.71E-02	3.31E-03	**1.87E-04**
T$_{34}$	6.27E-03	1.46E-03	3.54E-02	7.47E-04	**2.44E-04**	9.81E-03	1.86E-02	4.51E-02	3.48E-03	**1.87E-04**
T$_{35}$	9.46E-03	1.45E-03	3.23E-02	7.11E-04	**2.44E-04**	6.67E-03	1.89E-02	4.41E-02	3.65E-03	**2.96E-04**
T$_{36}$	1.82E-02	1.51E-03	3.60E-02	7.17E-04	**2.36E-04**	1.34E-02	1.98E-02	4.51E-02	3.40E-03	**1.84E-04**
T$_{37}$	9.43E-03	1.49E-03	3.50E-02	7.00E-04	**2.37E-04**	1.25E-02	1.91E-02	4.58E-02	3.49E-03	**1.80E-04**
T$_{38}$	1.58E-03	1.43E-03	3.39E-02	6.67E-04	**2.42E-04**	6.62E-03	1.90E-02	4.62E-02	3.62E-03	**1.83E-04**
T$_{39}$	1.28E-02	1.44E-03	3.29E-02	7.38E-04	**2.47E-04**	1.06E-02	1.87E-02	4.33E-02	3.07E-03	**1.79E-04**
T$_{40}$	5.39E-03	1.45E-03	3.29E-02	6.83E-04	**2.42E-04**	6.79E-03	1.99E-02	4.47E-02	3.54E-03	**1.91E-04**
T$_{41}$	4.67E-03	1.43E-03	3.40E-02	7.15E-04	**2.44E-04**	7.92E-03	1.78E-02	4.48E-02	3.07E-03	**1.90E-04**
T$_{42}$	8.31E-03	1.44E-03	3.35E-02	7.05E-04	**2.44E-04**	6.65E-03	2.01E-02	4.74E-02	3.64E-03	**1.87E-04**
T$_{43}$	1.71E-02	1.48E-03	3.54E-02	7.11E-04	**2.38E-04**	7.24E-03	1.95E-02	4.55E-02	3.30E-03	**1.91E-04**
T$_{44}$	1.08E-02	1.43E-03	3.36E-02	7.02E-04	**2.40E-04**	5.96E-03	1.92E-02	4.25E-02	3.29E-03	**1.92E-04**
T$_{45}$	5.14E-03	1.44E-03	3.17E-02	7.05E-04	**2.41E-04**	6.72E-03	1.86E-02	4.39E-02	3.30E-03	**1.86E-04**
T$_{46}$	1.05E-03	1.38E-03	3.14E-02	7.22E-04	**2.45E-04**	6.14E-03	2.07E-02	4.94E-02	3.18E-03	**1.91E-04**
T$_{47}$	1.28E-03	1.36E-03	3.37E-02	7.37E-04	**2.40E-04**	7.10E-03	1.94E-02	4.52E-02	3.27E-03	**1.88E-04**
T$_{48}$	1.59E-03	1.43E-03	3.75E-02	7.43E-04	**2.39E-04**	6.20E-03	2.02E-02	4.40E-02	3.66E-03	**2.70E-04**
T$_{49}$	4.28E-03	1.40E-03	3.28E-02	8.07E-04	**2.47E-04**	6.04E-03	1.91E-02	4.46E-02	3.46E-03	**1.85E-04**
T$_{50}$	1.33E-02	1.37E-03	3.22E-02	7.67E-04	**2.40E-04**	1.24E-02	1.95E-02	4.55E-02	3.71E-03	**2.05E-04**

Fig. 6. The log(IGD value) numerical curves of NSGA-II, MOMFEA, EBS, MaTEA and EMaTO-MKT after running 30 times independently on CEC19-MOMATP test suite.
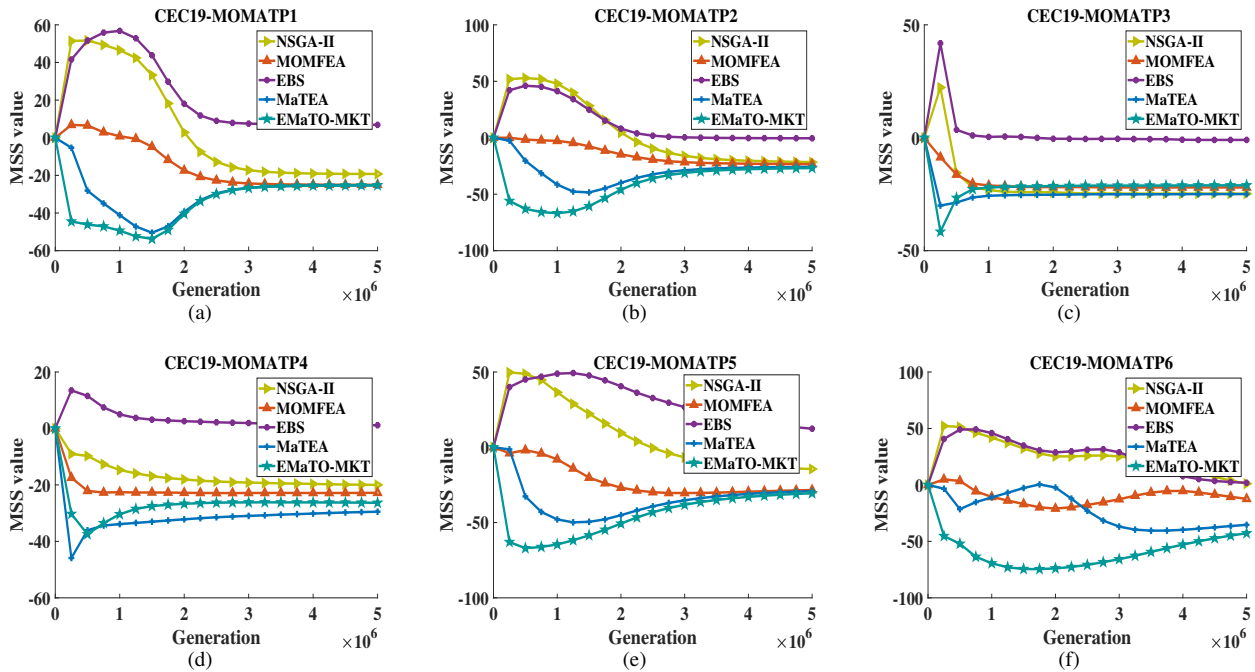
Fig. S2. The MSS value numerical curve of NSGA-II, MOMFEA, EBS, MaTEA and EMaTO-MKT running 30 times independently on CEC19-MOMATP test suite.