

TABLE S11
AVERAGED FITNESS VALUE OBTAINED BY MFEA, EBS, EEMTA, MATEA, SAEF-AKT AND EMaTO-MKT OF TASK₁ TO TASK₅₀ ON WCCI20-SOMATP1 AND WCCI20-SOMATP9 AFTER 30 INDEPENDENT RUNS, WHERE THE BOLD IS THE BEST RESULT OF ALL ALGORITHMS.

task	WCCI20-SOMATP1						WCCI20-SOMATP9					
	MFEA	EBS	EEMTA	MaTEA	SAEF-AKT	EMaTO-MKT	MFEA	EBS	EEMTA	MaTEA	SAEF-AKT	EMaTO-MKT
T ₁	1.20E+01	1.01E+03	1.26E+00	1.37E+02	3.52E-01	8.84E-25	5.17E+03	5.62E+08	6.14E+04	7.16E+07	1.89E+03	1.78E+03
T ₂	1.28E+01	9.11E+02	2.00E+00	1.52E+02	2.85E-01	1.00E-24	2.01E+01	2.03E+01	1.80E+01	6.07E+00	2.00E+01	2.67E-12
T ₃	1.10E+01	1.41E+03	1.47E+00	1.38E+02	3.32E-01	1.23E-24	5.95E+02	1.15E+04	1.20E+03	1.60E+03	3.55E+02	1.08E+02
T ₄	1.41E+01	1.42E+03	1.42E+00	1.63E+02	3.84E-01	1.10E-06	5.20E-01	8.86E+00	6.31E-01	1.40E+00	1.08E-01	4.96E-05
T ₅	1.17E+01	9.26E+02	8.46E+00	1.49E+02	2.93E-01	7.93E-25	5.46E+01	6.34E+01	3.75E+01	4.06E+01	4.51E+01	2.33E+01
T ₆	1.10E+01	1.33E+03	4.98E+00	1.36E+02	3.33E-01	8.82E-25	5.78E+03	1.69E+04	6.26E+03	5.90E+03	5.49E+03	5.88E+03
T ₇	1.39E+01	1.30E+03	2.42E+00	1.50E+02	3.35E-01	7.65E-25	4.90E+04	6.62E+08	3.61E+04	4.39E+07	4.40E+03	4.85E+01
T ₈	1.14E+01	1.29E+03	5.99E+00	1.75E+02	3.05E-01	8.25E-25	2.01E+01	2.02E+01	1.67E+01	6.08E+00	1.74E+01	2.61E-12
T ₉	1.40E+01	1.28E+03	5.09E-01	1.63E+02	3.66E-01	9.46E-25	5.62E+02	1.21E+04	1.22E+03	1.64E+03	4.41E+02	1.22E+02
T ₁₀	1.19E+01	1.36E+03	1.61E+00	2.10E+02	3.27E-01	7.99E-25	5.59E-01	1.38E+01	8.24E-01	1.61E+00	8.32E-02	1.08E-04
T ₁₁	1.31E+01	1.14E+03	1.21E+00	1.76E+02	2.71E-01	1.04E-24	5.05E+01	5.79E+01	3.96E+01	3.91E+01	4.59E+01	2.68E+01
T ₁₂	1.19E+01	9.41E+02	6.84E-01	1.31E+02	3.38E-01	1.04E-24	6.48E+03	1.67E+04	5.41E+03	5.51E+03	5.58E+03	5.22E+03
T ₁₃	1.38E+01	1.35E+03	1.96E+00	1.61E+02	3.36E-01	9.22E-25	3.94E+04	8.18E+08	1.03E+05	5.93E+07	9.36E+03	3.32E+02
T ₁₄	1.38E+01	1.11E+03	6.86E+00	1.07E+02	3.07E-01	9.44E-25	1.76E+01	2.00E+01	1.37E+01	6.14E+00	1.19E+01	4.50E-13
T ₁₅	1.29E+01	1.38E+03	3.43E+00	1.81E+02	3.72E-01	9.23E-25	6.78E+02	1.68E+04	1.19E+03	2.08E+03	4.41E+02	1.14E+02
T ₁₆	1.27E+01	1.22E+03	2.69E+00	1.53E+02	3.68E-01	7.31E-25	5.35E-01	1.44E+01	8.14E-01	1.72E+00	1.07E-01	5.61E-05
T ₁₇	1.30E+01	1.41E+03	2.81E+00	1.88E+02	3.21E-01	6.78E-25	5.16E+01	6.57E+01	3.83E+01	4.30E+01	4.42E+01	2.87E+01
T ₁₈	1.21E+01	1.16E+03	3.16E+00	1.36E+02	2.41E-01	9.05E-25	6.06E+03	1.69E+04	4.85E+03	6.32E+03	5.70E+03	5.57E+03
T ₁₉	1.32E+01	1.18E+03	2.88E+00	1.60E+02	3.40E-01	8.07E-25	9.57E+03	3.96E+08	3.06E+04	4.56E+07	1.19E+04	1.58E+02
T ₂₀	1.18E+01	1.35E+03	1.38E+00	1.50E+02	3.55E-01	1.06E-24	2.01E+01	2.06E+01	1.78E+01	6.25E+00	1.73E+01	4.63E-13
T ₂₁	1.14E+01	1.14E+03	1.76E+00	1.47E+02	2.73E-01	9.81E-25	6.65E+02	1.27E+04	1.26E+03	1.65E+03	4.15E+02	1.02E+02
T ₂₂	1.26E+01	1.53E+03	8.90E-01	1.80E+02	3.06E-01	7.14E-25	5.85E-01	1.16E+01	6.77E-01	1.54E+00	8.11E-02	2.13E-05
T ₂₃	1.25E+01	1.66E+03	1.83E+00	1.80E+02	3.82E-01	2.15E-05	5.10E+01	6.01E+01	3.38E+01	3.96E+01	4.66E+01	2.26E+01
T ₂₄	1.40E+01	8.80E+02	1.84E+00	9.52E+01	3.66E-01	7.86E-25	6.84E+03	1.66E+04	5.38E+03	6.02E+03	5.33E+03	4.97E+03
T ₂₅	1.10E+01	1.05E+03	5.25E+00	1.39E+02	2.80E-01	7.55E-25	8.36E+03	6.73E+08	8.94E+04	5.66E+07	1.87E+03	5.18E+02
T ₂₆	1.25E+01	9.01E+02	3.92E+00	1.17E+02	3.18E-01	6.95E-25	2.01E+01	2.06E+01	1.53E+01	6.16E+00	2.00E+01	3.33E+00
T ₂₇	1.32E+01	1.28E+03	2.70E+00	1.64E+02	3.69E-01	7.04E-25	5.81E+02	9.66E+03	1.16E+03	1.84E+03	3.90E+02	1.00E+02
T ₂₈	1.20E+01	1.11E+03	9.58E-01	9.50E+01	3.61E-01	8.41E-25	5.37E-01	1.15E+01	7.98E-01	1.49E+00	8.99E-02	2.69E-05
T ₂₉	1.27E+01	1.22E+03	1.83E+00	1.55E+02	3.38E-01	7.41E-25	5.12E+01	6.43E+01	3.80E+01	4.20E+01	4.61E+01	2.39E+01
T ₃₀	1.56E+01	1.12E+03	1.17E+00	1.43E+02	3.51E-01	1.64E-20	6.28E+03	1.68E+04	5.96E+03	6.34E+03	5.77E+03	5.59E+03
T ₃₁	1.31E+01	1.09E+03	2.08E+00	1.19E+02	3.07E-01	8.44E-25	2.05E+04	6.15E+08	9.70E+03	5.56E+07	2.63E+04	3.74E+02
T ₃₂	1.32E+01	1.21E+03	1.16E+00	1.47E+02	3.61E-01	8.44E-25	2.01E+01	2.05E+01	1.73E+01	6.08E+00	1.74E+01	4.11E-13
T ₃₃	1.28E+01	1.02E+03	1.76E+00	1.15E+02	3.24E-01	1.02E-24	5.94E+02	1.38E+04	9.79E+02	1.61E+03	3.71E+02	1.14E+02
T ₃₄	1.32E+01	1.36E+03	6.73E+00	1.37E+02	3.80E-01	8.53E-25	5.39E-01	1.08E+01	7.41E-01	1.80E+00	9.14E-02	6.78E-05
T ₃₅	1.17E+01	9.08E+02	7.48E-01	1.41E+02	3.09E-01	8.66E-25	5.01E+01	6.90E+01	3.67E+01	3.97E+01	4.37E+01	2.50E+01
T ₃₆	1.33E+01	1.54E+03	4.32E+00	1.71E+02	2.99E-01	6.82E-25	6.20E+03	1.68E+04	6.35E+03	6.54E+03	5.62E+03	5.81E+03
T ₃₇	1.17E+01	9.36E+02	2.80E+00	1.19E+02	2.59E-01	9.34E-25	1.89E+04	1.02E+09	4.91E+04	7.17E+07	8.86E+02	1.71E+02
T ₃₈	1.26E+01	1.35E+03	1.80E+00	1.47E+02	2.68E-01	9.93E-25	2.01E+01	2.05E+01	1.64E+01	6.53E+00	9.34E+00	1.28E-12
T ₃₉	1.20E+01	1.04E+03	3.67E+00	9.39E+01	3.68E-01	9.03E-25	5.35E+02	1.13E+04	1.16E+03	1.57E+03	3.95E+02	1.02E+02
T ₄₀	1.08E+01	1.01E+03	1.70E+00	1.30E+02	3.36E-01	7.20E-25	5.04E-01	1.67E+01	7.17E-01	2.12E+00	8.74E-02	1.06E-05
T ₄₁	1.17E+01	1.00E+03	1.97E+00	1.59E+02	3.48E-01	8.57E-25	5.29E+01	5.88E+01	3.69E+01	3.95E+01	4.36E+01	2.76E+01
T ₄₂	1.20E+01	1.52E+03	2.21E+00	1.53E+02	3.32E-01	8.55E-25	6.13E+03	1.60E+04	3.64E+03	5.98E+03	4.68E+03	5.79E+03
T ₄₃	1.30E+01	1.12E+03	1.75E+00	1.27E+02	3.33E-01	7.91E-25	9.09E+03	1.01E+09	3.54E+04	7.90E+07	8.44E+02	1.68E+03
T ₄₄	1.40E+01	8.89E+02	7.33E-01	1.34E+02	3.42E-01	7.31E-25	2.02E+01	2.06E+01	1.47E+01	6.29E+00	1.49E+01	1.25E-11
T ₄₅	1.46E+01	1.78E+03	4.43E+00	1.90E+02	3.16E-01	6.78E-25	6.34E+02	1.31E+04	1.32E+03	1.70E+03	3.80E+02	1.06E+02
T ₄₆	1.44E+01	1.06E+03	2.30E+00	1.16E+02	3.87E-01	9.22E-25	4.95E-01	1.26E+01	7.05E-01	1.88E+00	9.30E-02	1.62E-05
T ₄₇	1.39E+01	1.12E+03	2.72E+00	1.08E+02	4.51E-01	1.04E-24	5.35E+01	5.96E+01	3.77E+01	3.98E+01	4.64E+01	2.07E+01
T ₄₈	1.11E+01	1.02E+03	1.34E+00	1.17E+02	3.16E-01	9.00E-25	6.80E+03	1.67E+04	6.33E+03	5.59E+03	5.86E+03	6.00E+03
T ₄₉	1.07E+01	1.31E+03	3.15E+00	1.90E+02	3.02E-01	1.06E-24	6.20E+04	7.21E+08	8.88E+04	6.78E+07	7.30E+03	4.88E+01
T ₅₀	1.33E+01	1.10E+03	6.43E+00	1.68E+02	2.65E-01	9.65E-25	2.01E+01	2.05E+01	1.78E+01	6.18E+00	8.81E+00	3.33E+00

TABLE S12
AVERAGED FITNESS VALUE OBTAINED BY MFEA, EBS, EEMTA, MaTEA, SaEF-AKT AND EMaTO-MKT OF TASK₁ TO TASK₅₀ ON WCCI20-SOMATP2 AND WCCI20-SOMATP3 AFTER 30 INDEPENDENT RUNS, WHERE THE BOLD IS THE BEST RESULT OF ALL ALGORITHMS.

task	WCCI20-SOMATP2						WCCI20-SOMATP3					
	MFEA	EBS	EEMTA	MaTEA	SaEF-AKT	EMaTO-MKT	MFEA	EBS	EEMTA	MaTEA	SaEF-AKT	EMaTO-MKT
T ₁	2.59E+03	4.57E+05	6.75E+02	7.01E+04	1.13E+04	4.80E+01	5.32E+02	6.87E+02	4.37E+02	3.52E+02	3.83E+02	1.01E+02
T ₂	4.82E+03	1.72E+05	3.86E+02	1.60E+04	9.48E+03	3.05E+02	5.32E+02	6.53E+02	4.91E+02	3.38E+02	4.51E+02	1.04E+02
T ₃	5.96E+03	5.02E+05	5.03E+02	3.52E+04	9.32E+03	1.06E+02	5.75E+02	6.07E+02	4.23E+02	3.85E+02	3.86E+02	1.01E+02
T ₄	8.00E+03	4.80E+05	4.90E+02	6.22E+04	9.92E+03	1.78E+02	5.56E+02	6.33E+02	4.92E+02	3.06E+02	3.37E+02	1.13E+02
T ₅	2.77E+03	3.71E+05	5.28E+02	4.15E+04	1.24E+04	8.57E+01	5.50E+02	6.43E+02	4.73E+02	3.43E+02	3.79E+02	1.10E+02
T ₆	5.59E+03	3.30E+05	3.95E+02	4.53E+04	9.75E+03	4.77E+01	5.43E+02	7.00E+02	5.93E+02	3.24E+02	4.22E+02	1.19E+02
T ₇	3.81E+03	4.33E+05	6.15E+02	2.48E+04	9.81E+03	1.26E+02	4.95E+02	7.45E+02	4.91E+02	3.58E+02	4.01E+02	9.25E+01
T ₈	1.45E+04	7.75E+05	4.72E+02	7.45E+04	1.34E+04	1.72E+02	5.05E+02	6.94E+02	4.61E+02	3.79E+02	4.01E+02	1.17E+02
T ₉	3.07E+03	3.02E+05	6.70E+02	2.65E+04	7.35E+03	6.25E+01	5.63E+02	6.72E+02	4.91E+02	3.49E+02	3.75E+02	1.02E+02
T ₁₀	3.62E+03	3.57E+05	2.62E+03	4.19E+04	2.07E+04	4.90E+01	5.22E+02	6.75E+02	4.81E+02	3.61E+02	3.84E+02	1.24E+02
T ₁₁	1.06E+04	2.92E+05	4.51E+02	2.76E+04	8.44E+03	7.50E+01	5.26E+02	6.98E+02	5.13E+02	3.24E+02	3.78E+02	9.83E+01
T ₁₂	6.18E+03	5.96E+05	9.10E+02	6.16E+04	1.14E+04	6.99E+01	5.46E+02	7.37E+02	4.53E+02	3.71E+02	4.12E+02	1.13E+02
T ₁₃	4.15E+03	5.43E+05	4.91E+02	3.90E+04	1.10E+04	8.89E+01	5.52E+02	6.84E+02	5.49E+02	3.55E+02	4.33E+02	1.07E+02
T ₁₄	4.45E+03	4.86E+05	5.07E+02	6.71E+04	1.29E+04	1.20E+02	5.25E+02	6.96E+02	3.68E+02	3.32E+02	3.73E+02	1.05E+02
T ₁₅	3.67E+03	7.32E+05	7.53E+02	6.75E+04	5.32E+03	1.62E+02	5.29E+02	7.10E+02	5.63E+02	3.35E+02	3.86E+02	1.12E+02
T ₁₆	2.31E+03	4.89E+05	1.09E+03	5.37E+04	7.90E+03	6.01E+01	5.17E+02	7.81E+02	4.85E+02	3.59E+02	4.20E+02	1.01E+02
T ₁₇	5.27E+03	4.99E+05	4.38E+02	2.29E+04	8.55E+03	4.82E+01	5.85E+02	6.44E+02	4.79E+02	3.49E+02	4.11E+02	1.13E+02
T ₁₈	1.97E+03	3.95E+05	6.27E+02	4.57E+04	5.59E+02	2.06E+02	5.09E+02	6.41E+02	4.74E+02	3.55E+02	4.07E+02	9.72E+01
T ₁₉	2.68E+03	4.80E+05	9.86E+02	3.95E+04	1.46E+04	4.80E+01	5.38E+02	6.63E+02	4.52E+02	3.59E+02	4.04E+02	9.88E+01
T ₂₀	2.31E+03	4.89E+05	1.09E+03	5.37E+04	7.90E+03	1.17E+02	5.17E+02	7.81E+02	4.85E+02	3.59E+02	4.20E+02	1.01E+02
T ₂₁	2.86E+03	6.69E+05	3.05E+02	7.70E+04	7.40E+03	4.89E+01	5.48E+02	6.66E+02	4.93E+02	3.61E+02	4.15E+02	1.17E+02
T ₂₂	2.29E+03	4.44E+05	4.61E+02	2.25E+04	4.45E+03	1.22E+02	5.59E+02	6.91E+02	5.57E+02	3.30E+02	3.54E+02	1.12E+02
T ₂₃	1.97E+03	4.51E+05	3.07E+02	5.30E+04	9.54E+03	9.91E+01	5.25E+02	7.03E+02	4.44E+02	3.61E+02	3.90E+02	1.21E+02
T ₂₄	4.20E+03	5.73E+05	5.53E+02	4.53E+04	8.46E+03	4.81E+01	5.71E+02	6.47E+02	5.54E+02	3.56E+02	3.81E+02	1.03E+02
T ₂₅	8.87E+03	5.72E+05	6.67E+02	5.65E+04	9.20E+03	9.17E+01	5.50E+02	6.71E+02	5.51E+02	3.31E+02	3.65E+02	1.20E+02
T ₂₆	2.85E+03	6.86E+05	1.89E+03	6.16E+04	1.13E+04	1.19E+02	5.84E+02	7.42E+02	4.65E+02	3.96E+02	3.81E+02	1.30E+02
T ₂₇	2.95E+03	4.04E+05	2.98E+02	4.35E+04	1.17E+03	1.24E+02	5.08E+02	7.62E+02	4.96E+02	3.61E+02	3.79E+02	9.80E+01
T ₂₈	3.76E+03	5.76E+05	1.05E+03	5.05E+04	1.39E+04	4.77E+01	6.54E+02	7.22E+02	4.94E+02	3.48E+02	3.51E+02	9.83E+01
T ₂₉	9.22E+03	4.10E+05	5.20E+02	6.91E+04	9.08E+03	1.27E+02	5.59E+02	6.47E+02	4.87E+02	3.75E+02	3.99E+02	9.59E+01
T ₃₀	4.63E+03	3.90E+05	6.25E+02	3.33E+04	6.07E+03	1.49E+02	4.87E+02	6.19E+02	4.93E+02	3.08E+02	3.62E+02	1.01E+02
T ₃₁	2.43E+03	3.74E+05	3.28E+02	4.55E+04	2.65E+03	1.33E+02	4.70E+02	6.03E+02	4.37E+02	3.38E+02	4.24E+02	1.08E+02
T ₃₂	5.37E+03	4.70E+05	7.56E+02	6.35E+04	6.11E+03	6.83E+01	4.92E+02	6.44E+02	4.81E+02	3.34E+02	3.24E+02	1.10E+02
T ₃₃	3.34E+03	3.88E+05	7.52E+02	3.56E+04	7.82E+03	1.53E+02	5.29E+02	6.58E+02	4.49E+02	3.56E+02	3.66E+02	1.13E+02
T ₃₄	5.08E+03	3.92E+05	7.08E+02	4.24E+04	1.13E+04	3.55E+02	5.76E+02	6.79E+02	4.93E+02	3.35E+02	4.62E+02	1.11E+02
T ₃₅	1.71E+04	5.57E+05	4.38E+02	4.82E+04	8.65E+03	6.52E+01	5.31E+02	6.60E+02	5.21E+02	3.36E+02	3.49E+02	1.10E+02
T ₃₆	1.35E+03	5.16E+05	5.33E+02	1.02E+05	1.21E+04	6.97E+01	5.37E+02	7.22E+02	4.40E+02	3.48E+02	3.64E+02	1.08E+02
T ₃₇	3.38E+03	5.34E+05	4.83E+02	3.45E+04	4.00E+03	8.43E+01	6.14E+02	6.92E+02	4.76E+02	3.39E+02	3.87E+02	1.17E+02
T ₃₈	6.14E+03	3.96E+05	6.55E+02	6.67E+04	1.37E+04	4.82E+01	4.99E+02	6.85E+02	5.23E+02	3.34E+02	4.08E+02	1.20E+02
T ₃₉	3.09E+03	4.28E+05	1.24E+03	3.56E+04	4.36E+03	5.73E+02	4.88E+02	6.36E+02	4.84E+02	3.19E+02	3.74E+02	1.06E+02
T ₄₀	3.27E+03	3.75E+05	3.88E+02	3.16E+04	6.22E+03	1.40E+02	5.52E+02	6.42E+02	3.64E+02	3.37E+02	3.31E+02	9.45E+01
T ₄₁	2.06E+03	3.11E+05	3.17E+02	3.25E+04	5.49E+03	4.84E+01	4.60E+02	6.69E+02	5.03E+02	3.40E+02	4.23E+02	1.25E+02
T ₄₂	1.84E+03	5.32E+05	6.23E+02	4.77E+04	1.64E+04	1.92E+02	4.40E+02	6.37E+02	4.72E+02	3.15E+02	4.34E+02	9.57E+01
T ₄₃	2.41E+03	3.70E+05	9.85E+02	2.13E+04	1.06E+04	6.04E+01	5.05E+02	7.23E+02	5.31E+02	3.91E+02	4.10E+02	1.15E+02
T ₄₄	1.12E+03	3.66E+05	3.78E+02	2.80E+04	9.55E+03	5.17E+01	5.06E+02	6.35E+02	5.30E+02	3.31E+02	4.36E+02	1.06E+02
T ₄₅	6.69E+03	5.95E+05	4.96E+02	6.65E+04	1.94E+03	3.60E+02	5.23E+02	5.83E+02	4.12E+02	3.34E+02	3.97E+02	1.17E+02
T ₄₆	3.11E+03	6.69E+05	4.75E+02	2.99E+04	1.06E+04	2.62E+02	5.25E+02	7.29E+02	4.65E+02	3.58E+02	3.93E+02	1.13E+02
T ₄₇	3.20E+03	5.13E+05	6.33E+02	6.28E+04	8.01E+03	1.62E+02	5.40E+02	6.35E+02	4.32E+02	3.46E+02	3.76E+02	1.09E+02
T ₄₈	2.79E+03	3.78E+05	6.95E+02	4.94E+04	8.45E+03	4.40E+02	5.67E+02	7.81E+02	5.53E+02	3.39E+02	3.67E+02	1.03E+02
T ₄₉	2.90E+03	3.91E+05	3.65E+02	5.83E+04	1.22E+04	3.26E+02	6.03E+02	6.29E+02	4.72E+02	3.44E+02	3.07E+02	1.18E+02
T ₅₀	1.01E+04	5.03E+05	6.16E+02	5.15E+04	7.33E+03	7.19E+01	4.61E+02	7.06E+02	4.28E+02	3.13E+02	3.54E+02	9.99E+01

TABLE S13
AVERAGED FITNESS VALUE OBTAINED BY MFEA, EBS, EEMTA, MaTEA, SaEF-AKT AND EMaTO-MKT OF TASK₁ TO TASK₅₀ ON WCCI20-SOMATP4 AND WCCI20-SOMATP5 AFTER 30 INDEPENDENT RUNS, WHERE THE BOLD IS THE BEST RESULT OF ALL ALGORITHMS.

task	WCCI20-SOMATP4						WCCI20-SOMATP5					
	MFEA	EBS	EEMTA	MaTEA	SaEF-AKT	EMaTO-MKT	MFEA	EBS	EEMTA	MaTEA	SaEF-AKT	EMaTO-MKT
T ₁	1.72E+01	1.00E+04	6.08E+00	1.08E+03	3.21E-01	1.57E-24	5.79E+02	3.80E+03	1.04E+03	6.39E+02	4.77E+02	9.85E+01
T ₂	3.85E+03	5.65E+07	5.78E+03	3.22E+06	1.40E+04	1.09E+02	5.59E-01	4.49E+00	3.94E-01	5.99E-01	7.91E-02	2.30E-05
T ₃	4.81E+00	1.74E+01	9.74E+00	5.42E+00	4.16E+00	6.22E-10	3.91E+01	4.75E+01	3.00E+01	3.78E+01	4.13E+01	1.78E+01
T ₄	1.86E+01	1.23E+04	1.07E+01	8.82E+02	3.78E-01	1.41E-24	6.86E+02	3.32E+03	1.02E+03	6.90E+02	4.43E+02	1.04E+02
T ₅	1.15E+04	5.95E+07	1.01E+04	2.17E+06	2.03E+03	2.71E+02	5.32E-01	3.54E+00	4.26E-01	5.97E-01	9.61E-02	2.54E-05
T ₆	4.47E+00	1.78E+01	1.20E+01	5.47E+00	3.27E+00	3.85E-13	4.10E+01	4.54E+01	3.10E+01	3.75E+01	4.37E+01	2.30E+01
T ₇	1.66E+01	1.06E+04	7.59E+00	9.98E+02	3.79E-01	1.50E-24	5.92E+02	4.25E+03	8.01E+02	7.45E+02	4.36E+02	8.77E+01
T ₈	9.19E+03	9.34E+07	8.18E+00	4.10E+06	4.85E+03	8.27E+01	5.24E-01	4.03E+00	3.71E-01	6.90E-01	9.47E-02	2.42E-05
T ₉	4.95E+00	1.75E+01	1.14E+01	5.00E+00	3.76E+00	3.89E-13	4.18E+01	4.97E+01	3.31E+01	3.76E+01	4.26E+01	2.24E+01
T ₁₀	1.72E+01	1.26E+04	2.33E+02	1.14E+03	3.31E-01	1.48E-24	5.43E+02	3.67E+03	1.01E+03	6.54E+02	4.11E+02	9.17E+01
T ₁₁	2.60E+04	7.82E+07	3.58E+03	4.49E+06	4.20E+04	5.59E+01	5.33E-01	4.08E+00	4.66E-01	7.41E-01	7.65E-02	1.62E-05
T ₁₂	4.94E+00	1.68E+01	1.78E+01	5.00E+00	3.70E+00	4.38E-13	4.35E+01	4.51E+01	3.70E+01	3.56E+01	4.15E+01	2.31E+01
T ₁₃	1.76E+01	1.17E+04	1.94E+01	8.29E+02	4.25E-01	1.47E-24	6.06E+02	4.18E+03	1.04E+03	6.74E+02	4.20E+02	1.02E+02
T ₁₄	2.68E+04	5.90E+07	3.85E+03	2.64E+06	1.91E+03	8.22E+02	4.93E-01	4.02E+00	4.49E-01	6.28E-01	8.82E-02	2.09E-05
T ₁₅	5.46E+00	1.74E+01	9.57E+00	5.10E+00	3.35E+00	4.11E-13	3.54E+01	4.26E+01	3.14E+01	3.68E+01	3.89E+01	2.11E+01
T ₁₆	1.68E+01	1.36E+04	1.78E+01	1.40E+03	3.45E-01	1.63E-24	5.20E+02	3.33E+03	9.76E+02	6.20E+02	3.47E+02	1.08E+02
T ₁₇	9.01E+03	5.67E+07	4.85E+03	1.87E+06	3.93E+03	5.40E+02	4.53E-01	3.60E+00	4.73E-01	6.96E-01	8.23E-02	5.85E-05
T ₁₈	4.89E+00	1.74E+01	1.11E+01	5.74E+00	3.80E+00	3.87E-13	4.21E+01	4.52E+01	3.33E+01	3.45E+01	4.20E+01	2.59E+01
T ₁₉	1.61E+01	1.27E+04	1.46E+01	1.04E+03	3.72E-01	1.08E-24	5.54E+02	3.56E+03	7.76E+02	7.05E+02	4.05E+02	9.14E+01
T ₂₀	1.78E+04	7.02E+07	1.66E+04	4.44E+06	1.66E+04	4.77E+01	5.43E-01	4.28E+00	3.79E-01	7.26E-01	8.69E-02	1.25E-03
T ₂₁	4.70E+00	1.83E+01	9.97E+00	5.07E+00	3.54E+00	4.19E-13	3.53E+01	4.44E+01	3.30E+01	3.48E+01	4.28E+01	2.08E+01
T ₂₂	1.67E+01	9.78E+03	6.92E+00	1.07E+03	3.71E-01	1.57E-24	5.42E+02	3.30E+03	8.43E+02	6.96E+02	3.91E+02	1.12E+02
T ₂₃	4.52E+03	6.16E+07	1.06E+04	1.44E+06	8.00E+02	1.21E+02	5.00E-01	4.22E+00	4.77E-01	6.76E-01	8.04E-02	1.06E-05
T ₂₄	5.12E+00	1.73E+01	1.06E+01	5.21E+00	4.21E+00	4.63E-13	4.03E+01	4.76E+01	3.56E+01	3.73E+01	3.94E+01	2.35E+01
T ₂₅	1.73E+01	1.30E+04	2.25E+01	1.25E+03	3.76E-01	1.68E-24	6.18E+02	3.79E+03	6.75E+02	6.82E+02	3.86E+02	9.00E+01
T ₂₆	1.18E+05	3.32E+07	2.34E+03	1.29E+06	4.24E+04	8.97E+01	5.40E-01	4.98E+00	4.82E-01	7.31E-01	8.69E-02	3.03E-05
T ₂₇	4.63E+00	1.80E+01	1.04E+01	5.44E+00	3.95E+00	3.63E-13	4.38E+01	4.87E+01	4.30E+01	3.76E+01	4.43E+01	2.27E+01
T ₂₈	1.71E+01	1.32E+04	1.76E+01	1.31E+03	3.38E-01	1.69E-24	5.66E+02	2.85E+03	9.85E+02	6.10E+02	3.66E+02	8.76E+01
T ₂₉	7.66E+03	2.27E+07	3.12E+03	1.82E+06	1.58E+03	4.84E+02	5.50E-01	3.98E+00	3.26E-01	7.06E-01	8.18E-02	3.92E-05
T ₃₀	4.84E+00	1.76E+01	9.82E+00	5.54E+00	4.44E+00	1.15E-12	4.18E+01	4.80E+01	3.79E+01	3.25E+01	3.91E+01	2.16E+01
T ₃₁	1.73E+01	1.17E+04	2.31E+01	1.21E+03	3.30E-01	1.32E-24	5.91E+02	3.59E+03	7.86E+02	6.53E+02	3.37E+02	1.11E+02
T ₃₂	7.85E+03	3.21E+07	1.78E+03	1.93E+06	3.11E+04	1.24E+03	5.38E-01	3.27E+00	4.56E-01	6.03E-01	1.13E-01	1.62E-05
T ₃₃	5.25E+00	1.69E+01	1.00E+01	5.18E+00	3.51E+00	3.87E-13	4.06E+01	4.69E+01	3.53E+01	3.34E+01	4.31E+01	2.00E+01
T ₃₄	1.67E+01	1.26E+04	1.35E+01	1.48E+03	3.85E-01	1.27E-24	6.03E+02	3.15E+03	6.76E+02	6.23E+02	3.90E+02	9.70E+01
T ₃₅	2.87E+03	4.66E+07	2.30E+04	1.59E+06	2.24E+03	1.76E+02	5.16E-01	4.75E+00	5.36E-01	7.54E-01	8.73E-02	1.54E-05
T ₃₆	4.69E+00	1.71E+01	8.54E+00	5.33E+00	3.57E+00	9.60E-13	3.95E+01	4.39E+01	3.23E+01	3.73E+01	4.37E+01	2.00E+01
T ₃₇	1.68E+01	1.29E+04	1.39E+01	1.24E+03	3.02E-01	9.83E-25	5.10E+02	3.76E+03	9.41E+02	7.93E+02	3.66E+02	1.07E+02
T ₃₈	5.34E+03	6.06E+07	7.47E+03	4.28E+06	1.33E+04	1.43E+03	5.56E-01	4.35E+00	4.31E-01	7.03E-01	7.61E-02	3.64E-05
T ₃₉	5.10E+00	1.71E+01	9.87E+00	5.45E+00	4.12E+00	7.17E-13	4.23E+01	4.72E+01	3.15E+01	3.67E+01	4.31E+01	2.11E+01
T ₄₀	2.02E+01	1.29E+04	2.53E+01	1.54E+03	3.35E-01	1.54E-24	5.31E+02	3.12E+03	9.60E+02	6.59E+02	4.06E+02	1.13E+02
T ₄₁	1.54E+04	8.76E+07	6.59E+03	6.58E+06	3.17E+03	6.23E+01	4.91E-01	4.19E+00	3.79E-01	7.58E-01	9.21E-02	1.25E-03
T ₄₂	4.85E+00	1.70E+01	1.06E+01	5.11E+00	3.78E+00	4.34E-13	3.92E+01	4.50E+01	3.05E+01	3.34E+01	4.32E+01	2.21E+01
T ₄₃	1.72E+01	1.55E+04	1.29E+03	1.52E+03	3.10E-01	1.58E-24	5.60E+02	3.56E+03	9.48E+02	6.35E+02	3.58E+02	1.21E+02
T ₄₄	5.99E+04	4.24E+07	1.99E+03	2.25E+06	2.21E+03	8.79E+02	5.06E-01	3.12E+00	3.80E-01	6.61E-01	6.91E-02	7.70E-06
T ₄₅	4.38E+00	1.80E+01	1.23E+01	5.34E+00	3.59E+00	3.09E-07	4.23E+01	4.71E+01	2.88E+01	3.29E+01	4.06E+01	2.26E+01
T ₄₆	1.74E+01	1.05E+04	7.17E+00	8.51E+02	3.46E-01	1.48E-24	6.67E+02	3.99E+03	8.31E+02	7.04E+02	3.84E+02	1.26E+02
T ₄₇	4.46E+03	5.41E+07	5.76E+03	3.42E+06	4.64E+04	1.35E+02	5.11E-01	3.75E+00	3.83E-01	6.05E-01	8.96E-02	1.25E-05
T ₄₈	4.46E+00	1.72E+01	9.35E+00	5.03E+00	3.68E+00	3.62E-13	4.07E+01	4.46E+01	3.00E+01	3.41E+01	4.30E+01	2.25E+01
T ₄₉	1.81E+01	1.04E+04	1.07E+01	1.17E+03	3.31E-01	1.76E-24	6.02E+02	4.01E+03	9.12E+02	6.89E+02	3.66E+02	9.06E+01
T ₅₀	4.39E+03	3.96E+07	2.30E+03	2.35E+06	3.07E+03	1.07E+03	5.27E-01	4.16E+00	4.88E-01	6.88E-01	7.62E-02	5.90E-05

TABLE S14

AVERAGED FITNESS VALUE OBTAINED BY MFEA, EBS, EEMTA, MaTEA, SaEF-AKT AND EMaTO-MKT OF TASK₁ TO TASK₅₀ ON WCCI20-SOMATP6 AND WCCI20-SOMATP7 AFTER 30 INDEPENDENT RUNS, WHERE THE BOLD IS THE BEST RESULT OF ALL ALGORITHMS.

task	WCCI20-SOMATP6						WCCI20-SOMATP7					
	MFEA	EBS	EEMTA	MaTEA	SaEF-AKT	EMaTO-MKT	MFEA	EBS	EEMTA	MaTEA	SaEF-AKT	EMaTO-MKT
T ₁	2.48E+03	2.38E+07	1.00E+05	3.37E+06	3.93E+03	5.96E+02	4.21E+00	1.80E+01	1.03E+01	5.31E+00	3.66E+00	4.10E-13
T ₂	5.05E-01	3.52E+00	3.56E-01	6.59E-01	1.04E-01	3.26E-05	6.04E+02	3.50E+03	9.94E+02	7.52E+02	4.08E+02	9.14E+01
T ₃	7.84E+03	1.73E+04	7.35E+03	7.24E+03	7.58E+03	7.24E+03	4.00E+01	5.07E+01	3.24E+01	3.61E+01	4.41E+01	1.94E+01
T ₄	6.93E+04	3.87E+07	1.32E+04	2.11E+06	1.48E+03	2.84E+02	4.99E+00	1.80E+01	1.04E+01	5.38E+00	3.47E+00	4.07E-13
T ₅	4.77E-01	3.14E+00	4.11E-01	6.21E-01	8.01E-02	2.37E-05	5.61E+02	3.68E+03	1.10E+03	7.08E+02	3.67E+02	1.13E+02
T ₆	7.52E+03	1.71E+04	6.33E+03	7.89E+03	7.55E+03	7.39E+03	3.84E+01	4.52E+01	2.59E+01	3.69E+01	4.61E+01	2.35E+01
T ₇	2.36E+04	3.04E+07	5.26E+03	3.49E+06	2.32E+03	7.35E+02	4.25E+00	1.79E+01	1.24E+01	5.56E+00	3.81E+00	3.85E-13
T ₈	5.01E-01	3.09E+00	3.29E-01	6.80E-01	8.71E-02	3.03E-05	5.83E+02	3.55E+03	1.17E+03	5.68E+02	4.35E+02	1.06E+02
T ₉	7.52E+03	1.75E+04	6.59E+03	7.70E+03	7.43E+03	7.45E+03	4.33E+01	4.63E+01	3.30E+01	3.68E+01	4.00E+01	2.02E+01
T ₁₀	6.90E+03	5.45E+07	4.24E+03	2.86E+06	1.27E+03	3.86E+02	5.27E+00	1.72E+01	8.60E+00	5.56E+00	3.57E+00	3.73E-13
T ₁₁	4.92E-01	3.49E+00	3.75E-01	7.28E-01	9.11E-02	1.53E-04	5.66E+02	3.70E+03	9.80E+02	7.58E+02	3.11E+02	1.03E+02
T ₁₂	7.55E+03	1.72E+04	5.76E+03	7.30E+03	7.23E+03	9.44E+02	4.83E+01	4.62E+01	3.39E+01	3.55E+01	4.19E+01	1.91E+01
T ₁₃	1.71E+04	3.14E+07	5.47E+04	4.28E+06	8.33E+02	4.01E+02	5.15E+00	1.74E+01	1.19E+01	5.17E+00	3.65E+00	3.82E-13
T ₁₄	4.85E-01	3.59E+00	3.26E-01	7.29E-01	7.92E-02	3.97E-05	5.00E+02	3.52E+03	1.16E+03	6.54E+02	3.31E+02	1.36E+02
T ₁₅	7.02E+03	1.76E+04	6.60E+03	7.00E+03	7.65E+03	6.91E+03	4.15E+01	4.88E+01	3.20E+01	3.75E+01	4.25E+01	2.13E+01
T ₁₆	5.99E+03	2.51E+07	2.64E+03	3.27E+06	2.13E+03	9.44E+02	4.83E+01	1.77E+01	1.04E+01	5.25E+00	3.46E+00	3.61E-13
T ₁₇	4.98E-01	3.33E+00	4.66E-01	7.08E-01	8.58E-02	2.35E-05	6.34E+02	3.76E+03	1.08E+03	7.03E+02	4.35E+02	1.23E+02
T ₁₈	8.07E+03	1.76E+04	5.80E+03	7.22E+03	6.69E+03	7.37E+03	4.19E+01	4.73E+01	2.89E+01	4.00E+01	4.21E+01	2.34E+01
T ₁₉	2.16E+04	2.63E+07	1.33E+04	2.87E+06	9.27E+03	6.74E+01	4.82E+00	1.76E+01	8.88E+00	5.22E+00	4.01E+00	9.23E-04
T ₂₀	4.74E-01	3.36E+00	3.94E-01	7.13E-01	8.75E-02	1.28E-04	6.07E+02	4.01E+03	1.05E+03	7.31E+02	3.74E+02	1.03E+02
T ₂₁	7.56E+03	1.70E+04	6.52E+03	7.48E+03	7.56E+03	7.23E+03	4.13E+01	4.52E+01	3.03E+01	3.80E+01	4.33E+01	2.33E+01
T ₂₂	4.79E+03	2.72E+07	2.73E+04	4.44E+06	6.51E+03	5.62E+02	4.30E+00	1.79E+01	1.09E+01	5.30E+00	3.88E+00	4.05E-13
T ₂₃	4.71E-01	3.50E+00	3.74E-01	6.31E-01	8.90E-02	1.43E-05	6.31E+02	3.08E+03	8.07E+02	6.07E+02	3.27E+02	9.99E+01
T ₂₄	7.20E+03	1.72E+04	7.24E+03	7.68E+03	7.06E+03	7.63E+03	4.29E+01	4.93E+01	3.25E+01	3.55E+01	4.13E+01	2.32E+01
T ₂₅	4.52E+04	2.42E+07	1.12E+04	2.19E+06	4.40E+03	4.81E+02	5.12E+00	1.76E+01	9.84E+00	5.67E+00	3.65E+00	3.64E-13
T ₂₆	4.86E-01	3.50E+00	5.04E-01	7.97E-01	8.71E-02	5.28E-05	6.07E+02	4.63E+03	1.11E+03	8.27E+02	4.14E+02	1.05E+02
T ₂₇	7.74E+03	1.74E+04	6.46E+03	7.39E+03	7.30E+03	7.17E+03	4.29E+01	4.79E+01	3.11E+01	3.65E+01	4.31E+01	1.66E+01
T ₂₈	6.61E+03	2.54E+07	9.72E+04	1.66E+06	1.50E+03	5.97E+01	5.47E+00	1.72E+01	9.43E+00	5.20E+00	4.29E+00	3.59E-13
T ₂₉	4.89E-01	3.27E+00	5.15E-01	7.11E-01	9.12E-02	2.94E-05	6.96E+02	3.42E+03	9.66E+02	6.18E+02	3.91E+02	1.18E+02
T ₃₀	7.75E+03	1.70E+04	6.94E+03	7.67E+03	7.53E+03	7.00E+03	4.35E+01	4.50E+01	3.08E+01	3.99E+01	4.24E+01	2.25E+01
T ₃₁	9.24E+03	2.76E+07	1.50E+05	3.73E+06	5.74E+03	2.78E+02	4.73E+00	1.82E+01	1.26E+01	5.80E+00	3.63E+00	3.90E-13
T ₃₂	5.01E-01	3.68E+00	6.03E-01	6.46E-01	7.84E-02	4.26E-05	5.27E+02	3.84E+03	1.10E+03	6.53E+02	4.05E+02	1.04E+02
T ₃₃	8.14E+03	1.69E+04	5.68E+03	7.48E+03	6.84E+03	7.22E+03	4.06E+01	4.29E+01	3.05E+01	3.62E+01	4.21E+01	1.68E+01
T ₃₄	1.53E+04	5.08E+07	6.14E+03	4.88E+06	5.02E+03	3.93E+02	4.66E+00	1.77E+01	1.09E+01	5.58E+00	3.87E+00	3.91E-13
T ₃₅	5.10E-01	3.47E+00	4.81E-01	7.42E-01	9.06E-02	4.29E-05	6.23E+02	3.26E+03	9.17E+02	6.16E+02	4.08E+02	1.21E+02
T ₃₆	8.29E+03	1.75E+04	5.56E+03	8.07E+03	6.85E+03	8.05E+03	4.13E+01	4.38E+01	3.31E+01	3.66E+01	4.53E+01	2.16E+01
T ₃₇	1.51E+04	1.79E+07	4.16E+03	1.62E+06	6.05E+03	1.98E+02	4.89E+00	1.77E+01	1.18E+01	5.33E+00	3.35E+00	4.15E-13
T ₃₈	5.23E-01	3.84E+00	4.05E-01	8.37E-01	8.63E-02	1.81E-05	6.70E+02	3.68E+03	1.10E+03	6.71E+02	3.65E+02	9.62E+01
T ₃₉	7.74E+03	1.72E+04	4.73E+03	7.71E+03	7.43E+03	7.06E+03	4.03E+01	4.19E+01	3.27E+01	3.38E+01	4.35E+01	2.44E+01
T ₄₀	1.50E+04	3.04E+07	4.73E+03	4.89E+06	1.27E+04	7.37E+02	4.65E+00	1.79E+01	1.16E+01	5.25E+00	3.58E+00	3.67E-13
T ₄₁	5.17E-01	3.58E+00	4.08E-01	6.97E-01	7.75E-02	1.06E-05	5.35E+02	4.20E+03	1.17E+03	7.45E+02	3.83E+02	9.52E+01
T ₄₂	7.98E+03	1.66E+04	7.69E+03	7.34E+03	6.93E+03	7.97E+03	4.47E+01	4.59E+01	2.86E+01	3.64E+01	4.20E+01	2.40E+01
T ₄₃	2.71E+04	3.10E+07	6.54E+04	5.21E+06	3.09E+03	1.72E+02	5.03E+00	1.72E+01	9.00E+00	5.10E+00	3.57E+00	3.83E-13
T ₄₄	5.15E-01	3.10E+00	3.25E-01	7.29E-01	8.28E-02	2.64E-05	6.59E+02	4.20E+03	1.09E+03	6.69E+02	3.87E+02	1.11E+02
T ₄₅	7.56E+03	1.71E+04	5.95E+03	7.63E+03	7.38E+03	7.50E+03	4.44E+01	4.43E+01	3.24E+01	3.39E+01	4.24E+01	1.98E+01
T ₄₆	3.94E+03	3.31E+07	2.08E+04	5.31E+06	2.89E+03	2.89E+02	4.36E+00	1.76E+01	1.29E+01	5.36E+00	3.76E+00	4.21E-13
T ₄₇	4.99E-01	3.24E+00	4.17E-01	7.56E-01	9.58E-02	8.05E-06	5.68E+02	4.08E+03	9.89E+02	6.80E+02	3.89E+02	1.07E+02
T ₄₈	8.00E+03	1.74E+04	6.62E+03	7.32E+03	7.70E+03	7.77E+03	4.22E+01	4.73E+01	3.10E+01	3.66E+01	4.58E+01	2.08E+01
T ₄₉	2.13E+04	2.34E+07	4.77E+03	3.48E+06	3.90E+03	6.43E+01	4.84E+00	1.78E+01	1.12E+01	5.42E+00	3.83E+00	3.43E-13
T ₅₀	5.11E-01	3.59E+00	4.49E-01	7.86E-01	9.14E-02	1.27E-05	5.12E+02	3.20E+03	8.48E+02	7.21E+02	4.07E+02	9.47E+01

TABLE S15
AVERAGED FITNESS VALUE OBTAINED BY MFEA, EBS, EEMTA, MaTEA, SaEF-AKT AND EMaTO-MKT OF TASK₁ TO TASK₅₀ ON WCCI20-SOMATP8 AND WCCI20-SOMATP10 AFTER 30 INDEPENDENT RUNS, WHERE THE BOLD IS THE BEST RESULT OF ALL ALGORITHMS.

task	WCCI20-SOMATP8						WCCI20-SOMATP10					
	MFEA	EBS	EEMTA	MaTEA	SaEF-AKT	EMaTO-MKT	MFEA	EBS	EEMTA	MaTEA	SaEF-AKT	EMaTO-MKT
T ₁	1.07E+04	6.24E+08	6.64E+06	4.60E+07	1.80E+04	7.68E+02	2.02E+01	2.04E+01	1.66E+01	6.16E+00	1.47E+01	3.35E+00
T ₂	2.01E+01	2.06E+01	1.76E+01	6.18E+00	1.47E+01	5.53E-13	5.59E+02	9.81E+03	8.93E+02	1.50E+03	3.81E+02	1.19E+02
T ₃	6.25E+02	1.13E+04	1.18E+03	1.24E+03	3.96E+02	1.11E+02	5.73E-01	1.40E+01	8.35E-01	2.19E+00	9.74E-02	3.27E-05
T ₄	4.95E-01	1.59E+01	7.37E-01	1.67E+00	8.64E-02	5.79E-06	5.35E+01	6.44E+01	4.30E+01	4.09E+01	4.50E+01	2.84E+01
T ₅	5.03E+01	6.19E+01	4.88E+01	4.08E+01	4.17E+01	2.14E+01	6.17E+03	1.60E+04	6.90E+03	6.32E+03	5.75E+03	5.42E+03
T ₆	5.23E+04	5.11E+08	3.15E+04	5.40E+07	5.42E+03	4.83E+01	1.75E+01	2.05E+01	1.52E+01	6.11E+00	1.44E+01	3.33E+00
T ₇	2.00E+01	2.00E+01	1.17E+01	6.09E+00	1.73E+01	2.88E-04	5.71E+02	1.12E+04	1.06E+03	2.00E+03	4.14E+02	9.70E+01
T ₈	6.01E+02	1.25E+04	1.17E+03	1.45E+03	3.87E+02	1.06E+02	5.49E-01	1.24E+01	4.07E+00	1.79E+00	9.01E-02	6.23E-05
T ₉	5.53E-01	1.58E+01	1.77E+00	1.57E+00	7.82E-02	1.06E-05	5.18E+01	6.22E+01	3.67E+01	3.77E+01	4.15E+01	2.57E+01
T ₁₀	5.11E+01	6.22E+01	4.92E+01	4.04E+01	4.46E+01	2.24E+01	7.11E+03	1.66E+04	7.30E+03	6.23E+03	6.49E+03	7.13E+03
T ₁₁	6.73E+04	5.15E+08	1.39E+04	4.78E+07	1.25E+04	2.34E+02	2.01E+01	2.05E+01	1.24E+01	6.36E+00	1.73E+01	4.45E-13
T ₁₂	2.01E+01	2.02E+01	1.72E+01	5.91E+00	2.00E+01	5.51E-13	5.49E+02	1.06E+04	1.20E+03	1.79E+03	3.40E+02	9.09E+01
T ₁₃	6.27E+02	1.08E+04	1.08E+03	1.64E+03	4.27E+02	8.99E+01	5.26E-01	1.41E+01	9.26E+00	1.94E+00	8.09E-02	5.81E-06
T ₁₄	5.39E-01	1.13E+01	6.13E-01	1.39E+00	8.80E-02	9.67E-06	4.98E+01	6.18E+01	3.87E+01	4.09E+01	4.60E+01	2.75E+01
T ₁₅	5.38E+01	6.97E+01	4.04E+01	4.23E+01	4.44E+01	2.43E+01	6.06E+03	1.67E+04	4.59E+03	5.65E+03	5.51E+03	5.85E+03
T ₁₆	3.66E+04	1.29E+09	2.85E+04	5.82E+07	2.38E+03	5.02E+02	2.02E+01	2.08E+01	2.01E+01	6.33E+00	2.01E+01	1.34E+01
T ₁₇	2.02E+01	2.03E+01	1.54E+01	6.11E+00	1.45E+01	5.04E-13	6.36E+02	1.18E+04	1.44E+03	1.95E+03	3.43E+02	1.03E+02
T ₁₈	6.18E+02	1.61E+04	2.41E+03	1.98E+03	3.86E+02	8.57E+01	5.43E-01	1.31E+01	1.73E+00	1.69E+00	6.99E-02	2.51E-05
T ₁₉	5.16E-01	1.45E+01	1.05E+01	1.90E+00	8.02E-02	1.20E-05	5.16E+01	6.70E+01	3.90E+01	3.94E+01	4.17E+01	2.66E+01
T ₂₀	5.12E+01	6.72E+01	4.00E+01	4.31E+01	4.62E+01	2.32E+01	7.01E+03	1.69E+04	7.70E+03	6.27E+03	5.67E+03	6.29E+03
T ₂₁	1.44E+05	9.45E+08	2.45E+08	4.44E+07	5.90E+03	4.77E+01	2.01E+01	2.02E+01	1.67E+01	5.72E+00	1.47E+01	6.68E+00
T ₂₂	2.01E+01	2.06E+01	1.55E+01	6.26E+00	1.23E+01	3.96E-13	6.11E+02	1.15E+04	1.94E+03	1.79E+03	3.36E+02	1.02E+02
T ₂₃	5.62E+02	1.68E+04	3.86E+03	1.71E+03	3.94E+02	1.06E+02	5.25E-01	1.30E+01	8.27E-01	1.58E+00	9.49E-02	1.06E-04
T ₂₄	5.46E-01	1.25E+01	1.38E+00	1.58E+00	9.33E-02	2.74E-05	5.21E+01	6.36E+01	5.05E+01	4.04E+01	4.36E+01	2.24E+01
T ₂₅	5.27E+01	6.20E+01	3.46E+01	3.84E+01	4.38E+01	2.49E+01	6.07E+03	1.61E+04	6.88E+03	5.91E+03	5.13E+03	5.28E+03
T ₂₆	1.34E+04	7.65E+08	1.24E+09	5.59E+07	6.36E+03	1.69E+03	2.01E+01	2.07E+01	1.37E+01	6.25E+00	2.01E+01	3.33E+00
T ₂₇	2.01E+01	2.04E+01	1.34E+01	6.01E+00	1.47E+01	6.06E-10	6.14E+02	1.10E+04	1.41E+03	1.54E+03	3.81E+02	1.03E+02
T ₂₈	5.95E+02	1.27E+04	2.18E+03	1.39E+03	4.12E+02	1.09E+02	5.22E-01	1.59E+01	4.74E+00	2.41E+00	7.52E-02	1.09E-05
T ₂₉	5.23E-01	1.45E+01	7.97E-01	1.96E+00	9.18E-02	9.49E-06	5.28E+01	6.21E+01	4.42E+01	3.63E+01	4.17E+01	2.63E+01
T ₃₀	5.20E+01	6.63E+01	3.91E+01	4.00E+01	4.43E+01	2.02E+01	6.42E+03	1.64E+04	5.59E+03	5.99E+03	5.05E+03	6.38E+03
T ₃₁	9.50E+03	1.13E+09	2.66E+08	6.30E+07	6.88E+02	5.45E+02	2.02E+01	2.04E+01	1.57E+01	6.06E+00	1.74E+01	5.19E+07
T ₃₂	2.02E+01	2.06E+01	1.54E+01	6.48E+00	1.74E+01	6.71E+00	5.39E+02	1.15E+04	1.02E+03	1.96E+03	4.15E+02	1.01E+02
T ₃₃	5.91E+02	1.24E+04	1.25E+03	1.81E+03	3.36E+02	9.49E+01	5.11E-01	1.36E+01	7.07E-01	1.69E+00	9.66E-02	1.28E-03
T ₃₄	5.23E-01	1.46E+01	6.26E-01	1.84E+00	1.02E-01	8.90E-05	4.66E+01	5.86E+01	4.72E+01	4.19E+01	4.34E+01	2.26E+01
T ₃₅	5.01E+01	6.74E+01	4.14E+01	4.23E+01	4.40E+01	3.01E+01	6.61E+03	1.69E+04	8.10E+03	6.68E+03	5.78E+03	5.77E+03
T ₃₆	8.06E+03	2.68E+08	1.67E+06	3.84E+07	2.18E+03	5.76E+02	2.01E+01	2.05E+01	1.63E+01	6.46E+00	1.72E+01	3.33E+00
T ₃₇	2.00E+01	2.06E+01	1.76E+01	5.96E+00	1.47E+01	1.21E-09	6.62E+02	8.73E+03	8.84E+02	1.47E+03	4.39E+02	1.05E+02
T ₃₈	6.58E+02	1.49E+04	1.40E+03	1.75E+03	4.38E+02	1.05E+02	4.86E-01	1.38E+01	7.38E-01	1.73E+00	1.14E-01	1.86E-05
T ₃₉	5.27E-01	1.41E+01	2.64E+00	1.57E+00	8.67E-02	9.36E-06	5.14E+01	6.67E+01	4.57E+01	4.05E+01	4.37E+01	2.66E+01
T ₄₀	5.29E+01	6.69E+01	4.58E+01	4.02E+01	4.59E+01	2.90E+01	6.87E+03	1.70E+04	7.47E+03	6.41E+03	5.42E+03	5.63E+03
T ₄₁	1.58E+04	7.10E+08	4.27E+08	5.36E+07	2.31E+03	1.30E+03	2.02E+01	2.06E+01	1.66E+01	6.61E+00	1.47E+01	3.62E+00
T ₄₂	2.01E+01	2.06E+01	1.92E+01	6.15E+00	1.72E+01	3.91E-13	6.58E+02	1.49E+04	3.17E+03	1.89E+03	3.45E+02	1.10E+02
T ₄₃	5.69E+02	1.09E+04	1.64E+03	1.52E+03	4.36E+02	9.09E+01	5.00E-01	1.25E+01	1.96E+00	1.44E+00	7.96E-02	2.89E-05
T ₄₄	4.93E-01	1.17E+01	1.16E+00	1.69E+00	7.86E-02	1.34E-05	5.28E+01	6.52E+01	5.21E+01	3.92E+01	4.36E+01	2.61E+01
T ₄₅	5.32E+01	6.11E+01	4.82E+01	4.10E+01	4.19E+01	2.36E+01	7.08E+03	1.68E+04	6.75E+03	6.09E+03	6.04E+03	5.30E+03
T ₄₆	7.44E+04	6.94E+08	1.88E+04	6.00E+07	6.31E+03	4.63E+01	2.01E+01	2.07E+01	1.40E+01	6.08E+00	1.74E+01	1.00E+01
T ₄₇	1.76E+01	2.05E+01	1.35E+01	6.13E+00	1.47E+01	6.91E-13	5.81E+02	1.08E+04	1.89E+03	1.74E+03	3.80E+02	8.77E+01
T ₄₈	5.97E+02	1.30E+04	1.32E+03	1.77E+03	4.35E+02	9.80E+01	5.42E-01	9.95E+00	5.73E-01	1.31E+00	9.29E-02	6.73E-05
T ₄₉	5.14E-01	1.42E+01	8.16E-01	1.37E+00	8.54E-02	5.42E-05	5.39E+01	6.05E+01	4.02E+01	4.22E+01	4.46E+01	2.26E+01
T ₅₀	5.16E+01	6.43E+01	3.93E+01	3.59E+01	4.36E+01	2.49E+01	5.92E+03	1.67E+04	7.39E+03	5.83E+03	5.56E+03	5.44E+03

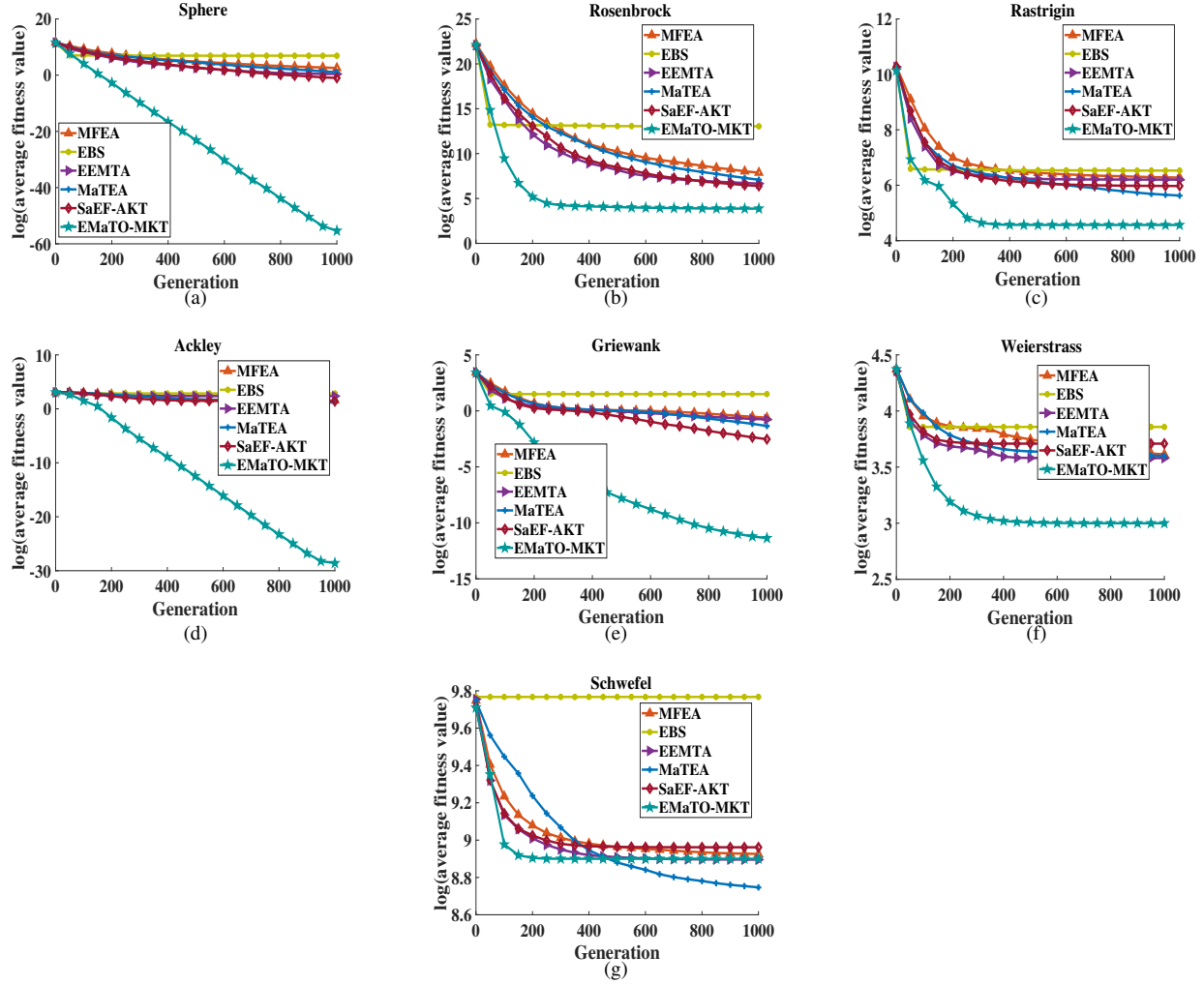


Fig. S3. The log(average fitness) numerical curve of MFEA, EBS, EEMTA, MaTEA, SaEF-AKT and EMaTO-MKT running 30 times independently on 7 single functions in WCCI20-SOMATP test suite.