

dataset	MTZ $_{SSRE, BR}$	ZSMT $_{SRE, BR}$	MTZ $_{SSRM, BR}$	ZSMT $_{SRM, BR}$	MTZ $_{SSRE, RC}$	ZSMT $_{SRE, RC}$	MTZ $_{SSRM, RC}$	ZSMT $_{SRM, RC}$	MTZ $_{SSRE, STA}$	ZSMT $_{SRE, STA}$	MTZ $_{SSRM, STA}$	ZSMT $_{SRM, STA}$	MTZ $_{SSRE, DBR}$	ZSMT $_{SRE, DBR}$	MTZ $_{SSRM, DBR}$	DZSMT $_{SRM, BR}$
SO2T5	0.40	0.40	0.40	0.40	0.44	0.40	0.43	0.40	0.49	0.40	0.47	0.40	0.46	0.40	0.44	0.40
SO2T10	0.54	(8.0)	0.54	(8.0)	0.53	(3.0)	0.53	(3.0)	0.57	(12.5)	0.54	(8.0)	0.56	(11.0)	0.53	(3.0)
SO2T15	0.47	(5.0)	0.47	(5.0)	0.47	(5.0)	0.47	(5.0)	0.51	(12.0)	0.47	(5.0)	0.57	(16.0)	0.47	(5.0)
SO2T20	0.35	(5.5)	0.35	(5.5)	0.35	(5.5)	0.35	(5.5)	0.39	(12.0)	0.35	(5.5)	0.45	(16.0)	0.35	(5.5)
SO5T5	0.43	(4.5)	0.43	(4.5)	0.43	(4.5)	0.43	(4.5)	0.49	(10.0)	0.52	(12.0)	0.43	(4.5)	0.43	(4.5)
SO5T10	0.46	(5.5)	0.46	(5.5)	0.46	(5.5)	0.46	(5.5)	0.51	(12.0)	0.46	(5.5)	0.54	(15.0)	0.46	(5.5)
SO5T15	0.43	(5.5)	0.43	(5.5)	0.43	(5.5)	0.43	(5.5)	0.51	(12.0)	0.43	(5.5)	0.54	(15.5)	0.43	(5.5)
SO5T20	0.39	(3.5)	0.39	(3.5)	0.39	(3.5)	0.39	(3.5)	0.48	(12.0)	0.40	(8.5)	0.39	(3.5)	0.39	(3.5)
SO10T5	0.50	(5.5)	0.50	(5.5)	0.50	(5.5)	0.50	(5.5)	0.56	(11.5)	0.50	(5.5)	0.58	(14.0)	0.50	(5.5)
SO10T10	0.52	(4.5)	0.52	(4.5)	0.52	(4.5)	0.52	(4.5)	0.57	(12.0)	0.52	(4.5)	0.58	(15.0)	0.52	(4.5)
SO10T15	0.49	(4.5)	0.49	(4.5)	0.49	(4.5)	0.49	(4.5)	0.56	(12.0)	0.51	(9.5)	0.58	(14.5)	0.49	(4.5)
SO10T20	0.50	(4.5)	0.50	(4.5)	0.50	(4.5)	0.50	(4.5)	0.57	(12.0)	0.51	(9.5)	0.60	(15.5)	0.50	(4.5)
Avg. Rank	(5.2)	(5.2)	(5.2)	(4.8)	(4.8)	(4.8)	(5.7)	(11.9)	(7.0)	(7.0)	(10.9)	(6.9)	(15.4)	(5.2)	(14.1)	(5.2)

Table 1: MAE
 Datasets: 12, Systems: 16
 CD 1%: 7.5 — CD 5%: 6.7 — CD 10%: 6.2

dataset	MTZ $_{SSRE, BR}$	ZSMT $_{SRE, BR}$	MTZ $_{SSRM, BR}$	ZSMT $_{SRM, BR}$	MTZ $_{SSRE, RC}$	ZSMT $_{SRE, RC}$	MTZ $_{SSRM, RC}$	ZSMT $_{SRM, RC}$	MTZ $_{SSRE, STA}$	ZSMT $_{SRE, STA}$	MTZ $_{SSRM, STA}$	ZSMT $_{SRM, STA}$	MTZ $_{SSRE, DBR}$	ZSMT $_{SRE, DBR}$	MTZ $_{SSRM, DBR}$	DZSMT $_{SRM, BR}$
SO2T5	0.29	(3.0)	0.29	(3.0)	0.30	(8.0)	0.30	(8.0)	0.35	(12.5)	0.29	(3.0)	0.38	(14.5)	0.29	(3.0)
SO2T10	0.59	(7.0)	0.59	(7.0)	0.59	(7.0)	0.63	(11.0)	0.58	(2.0)	0.71	(16.0)	0.59	(7.0)	0.65	(12.5)
SO2T15	0.38	(5.5)	0.38	(5.5)	0.38	(5.5)	0.38	(5.5)	0.45	(12.0)	0.38	(5.5)	0.49	(14.0)	0.38	(5.5)
SO2T20	0.21	(5.5)	0.21	(5.5)	0.21	(5.5)	0.26	(11.0)	0.21	(5.5)	0.35	(16.0)	0.21	(5.5)	0.21	(5.5)
SO5T5	0.33	(2.0)	0.33	(2.0)	0.34	(6.0)	0.43	(10.0)	0.67	(15.0)	0.41	(9.0)	0.48	(13.0)	0.34	(6.0)
SO5T10	0.37	(5.5)	0.37	(5.5)	0.37	(5.5)	0.37	(5.5)	0.44	(11.0)	0.37	(5.5)	0.49	(15.5)	0.37	(5.5)
SO5T15	0.33	(8.5)	0.33	(8.5)	0.32	(3.5)	0.32	(3.5)	0.45	(12.0)	0.32	(3.5)	0.50	(15.0)	0.33	(8.5)
SO5T20	0.26	(4.5)	0.26	(4.5)	0.26	(4.5)	0.26	(4.5)	0.39	(12.0)	0.27	(9.5)	0.26	(4.5)	0.26	(4.5)
SO10T5	0.45	(6.5)	0.45	(6.5)	0.45	(6.5)	0.44	(1.5)	0.45	(14.5)	0.57	(15.0)	0.45	(6.5)	0.45	(6.5)
SO10T10	0.47	(4.5)	0.47	(4.5)	0.47	(4.5)	0.56	(12.0)	0.47	(4.5)	0.55	(11.0)	0.59	(14.5)	0.47	(4.5)
SO10T15	0.41	(4.5)	0.41	(4.5)	0.41	(4.5)	0.51	(12.0)	0.48	(9.5)	0.50	(11.0)	0.54	(13.0)	0.41	(4.5)
SO10T20	0.43	(4.5)	0.43	(4.5)	0.43	(4.5)	0.55	(12.0)	0.45	(5.9)	0.54	(15.5)	0.43	(4.5)	0.43	(4.5)
Avg. Rank	(5.1)	(5.1)	(5.1)	(5.5)	(5.5)	(5.5)	(6.6)	(10.8)	(6.8)	(15.3)	(5.9)	(13.8)	(5.5)	(15.0)	(5.1)	(5.0)

Table 2: MSE
 Datasets: 12, Systems: 16
 CD 1%: 7.5 — CD 5%: 6.7 — CD 10%: 6.2

dataset	MTZ $_{SSRE, BR}$	ZSMT $_{SRE, BR}$	MTZ $_{SSRM, BR}$	ZSMT $_{SRM, BR}$	MTZ $_{SSRE, RC}$	ZSMT $_{SRE, RC}$	MTZ $_{SSRM, RC}$	ZSMT $_{SRM, RC}$	MTZ $_{SSRE, STA}$	ZSMT $_{SRE, STA}$	MTZ $_{SSRM, STA}$	ZSMT $_{SRM, STA}$	MTZ $_{SSRE, DBR}$	ZSMT $_{SRE, DBR}$	MTZ $_{SSRM, DBR}$	DZSMT $_{SRM, BR}$
SO2T5	53.02	(3.0)	53.02	(3.0)	53.44	(8.5)	53.44	(8.5)	57.94	(12.0)	53.00	(1.0)	56.64	(11.0)	56.64	(6.0)
SO2T10	71.29	(9.5)	71.29	(9.5)	70.95	(4.5)	70.95	(4.5)	75.81	(12.0)	71.13	(6.5)	74.20	(11.0)	70.80	(2.0)
SO2T15	60.46	(9.0)	60.46	(9.0)	60.45	(6.0)	60.45	(6.0)	65.52	(12.0)	60.39	(4.0)	64.30	(11.0)	60.38	(3.0)
SO2T20	44.58	(5.5)	44.58	(5.5)	44.77	(9.5)	44.77	(9.5)	50.70	(12.0)	44.38	(1.0)	49.44	(11.0)	44.56	(4.0)
SO5T5	55.96	(2.5)	55.96	(2.5)	56.29	(6.5)	56.29	(6.5)	63.40	(10.0)	70.15	(15.0)	62.40	(9.0)	67.63	(13.0)
SO5T10	59.10	(9.5)	59.10	(9.5)	59.06	(6.5)	59.06	(6.5)	65.52	(12.0)	58.93	(2.0)	64.37	(11.0)	58.90	(1.0)
SO5T15	54.69	(9.0)	54.69	(9.0)	54.47	(5.5)	54.47	(5.5)	64.78	(12.0)	54.39	(2.0)	62.98	(11.0)	54.17	(1.0)
SO5T20	50.26	(4.5)	50.26	(4.5)	50.15	(1.5)	50.15	(1.5)	61.34	(12.0)	50.72	(10.0)	59.48	(16.0)	50.28	(3.0)
SO10T5	64.63	(3.5)	64.63	(3.5)	64.81	(7.0)	64.81	(7.0)	71.77	(12.0)	64.24	(1.0)	71.10	(11.0)	64.42	(2.0)
SO10T10	66.79	(3.5)	66.79	(3.5)	66.83	(3.5)	66.83	(3.5)	73.01	(12.0)	66.65	(1.0)	72.37	(11.0)	66.69	(3.0)
SO10T15	61.32	(1.5)	61.32	(1.5)	61.48	(4.0)	61.48	(4.0)	68.61	(12.0)	65.49	(9.0)	72.11	(14.5)	61.50	(6.0)
SO10T20	63.60	(1.5)	63.60	(1.5)	63.80	(5.0)	63.80	(5.0)	72.17	(12.0)	65.81	(9.0)	71.50	(11.0)	66.10	(10.0)
Avg. Rank	(5.2)	(5.2)	(5.2)	(5.8)	(5.8)	(5.8)	(6.6)	(10.8)	(6.8)	(15.3)	(6.2)	(13.8)	(6.7)	(14.9)	(4.7)	(5.8)

Table 3: RMSE
 Datasets: 12, Systems: 16
 CD 1%: 7.5 — CD 5%: 6.7 — CD 10%: 6.2

dataset	MTZ $_{SSRE, BR}$	ZSMT $_{SRE, BR}$	MTZ $_{SSRM, BR}$	ZSMT $_{SRM, BR}$	MTZ $_{SSRE, RC}$	ZSMT $_{SRE, RC}$	MTZ $_{SSRM, RC}$	ZSMT $_{SRM, RC}$	MTZ $_{SSRE, STA}$	ZSMT $_{SRE, STA}$	MTZ $_{SSRM, STA}$	ZSMT $_{SRM, STA}$	MTZ $_{SSRE, DBR}$	ZSMT $_{SRE, DBR}$	MTZ $_{SSRM, DBR}$	DZSMT $_{SRM, BR}$
SO2T5	54.85	(3.5)	54.85	(3.5)	55.32	(8.5)	55.32	(8.5)	59.93	(12.0)	54.80	(1.0)	58.62	(11.0)	55.26	(6.0)
SO2T10	73.28	(9.5)	73.28	(9.5)	72.93	(4.5)	72.93	(4.5)	77.68	(12.0)	73.12	(6.5)	76.11	(11.0)	72.78	(2.0)
SO2T15	57.79	(7.5)	57.79	(7.5)	57.79	(7.5)	57.79	(7.5)	61.32	(11.0)	57.74	(3.5)	60.37	(16.0)	57.79	(7.5)
SO2T20	47.62	(5.5)	47.62	(5.5)	47.80	(9.5)	47.80	(9.5)	53.89	(12.0)	47.42	(1.0)	52.59	(11.0)	47.59	(4.0)
SO5T5	55.10	(2.5)	55.10	(2.5)	55.42	(6.5)	55.42	(6.5)	62.50	(10.0)	69.12	(15.0)	61.51	(9.0)	70.38	(16.0)
SO5T10	63.94	(9.5)	63.94	(9.5)	63.92	(7.0)	63.92	(7.0)	71.01	(12.0)	63.76	(1.0)	69.73	(11.0)	74.73	(16.0)
SO5T15	53.72	(9.0)	53.72	(9.0)	53.50	(5.0)	53.50	(5.0)	63.61	(12.0)	63.42	(2.0)	61.82	(11.0)	53.21	(1.0)
SO5T20	52.04	(4.5)	52.04	(4.5)	51.92	(1.5)	51.92	(1.5)	63.61	(12.0)	52.58	(10.0)	61.68	(16.0)	70.75	(16.0)
SO10T5	62.92	(3.5)	62.92	(3.5)	63.09	(6.5)	63.09	(6.5)	69.77	(12.0)	62.53	(1.0)	69.12	(11.0)	72.71	(14.0)
SO10T10	68.25	(3.5)	68.25	(3.5)	68.31	(6.5)	68.31	(6.5)	74.75	(12.0)	68.10	(1.0)	74.00	(11.0)	68.16	(2.0)
SO10T15	60.19	(1.5)	60.19	(1.5)	60.35	(4.0)	60.35	(4.0)	68.27	(12.0)	64.15	(10.0)	64.08	(9.0)	71.01	(14.5)
SO10T20	61.58	(1.5)	61.58	(1.5)	61.77	(5.5)	61.77	(5.5)	69.65	(12.0)	63.73	(9.0)	72.79	(15.0)	61.75	(4.0)
Avg. Rank	(5.1)	(5.1)	(5.1)	(6.0)	(6.0)	(6.0)	(6.0)	(6.0)	(5.5)	(15.3)	(6.0)	(6.0)	(6.8)	(13.8)	(4.5)	(5.7)

Table 4: RRMSE
 Datasets: 12, Systems: 16
 CD 1%: 7.5 — CD 5%: 6.7 — CD 10%: 6.2

dataset	MTZ _{SSRE, BR}		ZSMT _{SRE, BR}		MTZ _{SSRM, BR}		ZSMT _{SRM, BR}		MTZ _{SSRE, RC}		ZSMT _{SRE, RC}		MTZ _{SSRM, RC}		ZSMT _{SRM, RC}		MTZ _{SSRE, STA}		ZSMT _{SRE, STA}		MTZ _{SSRM, STA}		ZSMT _{SRM, STA}		MTZ _{SSRE, DBR}		ZSMT _{SRE, DBR}		MTZ _{SSRM, DBR}		DZSMT _{SRM, BR}	
SO2T5	16.77	(3.0)	16.77	(3.0)	16.90	(8.0)	16.90	(8.0)	18.32	(12.0)	16.76	(1.0)	17.91	(11.0)	17.91	(6.0)	19.20	16.78	(5.0)	19.36	16.92	(10.0)	19.20	16.77	(14.0)	18.51	16.90	(8.0)	19.07	16.90	(8.0)	
SO2T10	22.54	(22.5)	22.54	(9.5)	22.43	(9.5)	22.43	(4.5)	23.97	(14.0)	22.49	(6.5)	23.46	(6.5)	23.46	(11.0)	22.39	24.74	(15.0)	22.49	24.74	(15.0)	22.39	24.74	(15.0)	22.39	24.74	(15.0)	22.39	24.74	(15.0)	
SO2T15	19.12	(19.1)	19.12	(19.1)	19.12	(19.1)	19.12	(8.0)	20.72	(12.0)	20.33	(12.0)	20.33	(12.0)	20.33	(16.0)	19.08	19.36	(8.0)	19.08	19.36	(8.0)	19.08	19.36	(8.0)	19.08	19.36	(8.0)	19.08	19.36	(8.0)	
SO2T20	14.10	(5.5)	14.10	(5.5)	14.16	(9.5)	14.16	(9.5)	16.03	(12.0)	14.04	(1.0)	15.64	(11.0)	14.09	(11.0)	17.66	14.08	(5.0)	17.66	14.08	(5.0)	17.66	14.08	(5.0)	17.66	14.08	(5.0)	17.66	14.08	(5.0)	
SO5T5	17.69	(2.5)	17.69	(2.5)	17.80	(6.5)	17.80	(6.5)	20.05	(10.0)	22.18	(15.0)	19.73	(9.0)	22.59	(16.0)	21.39	21.43	(14.0)	21.39	21.43	(14.0)	21.39	21.43	(14.0)	21.39	21.43	(14.0)	21.39	21.43	(14.0)	
SO5T10	18.69	(9.5)	18.69	(9.5)	18.68	(7.0)	18.68	(7.0)	20.72	(12.0)	20.35	(11.0)	18.63	(1.0)	21.84	(16.0)	21.87	18.77	(4.0)	21.87	18.77	(4.0)	21.87	18.77	(4.0)	21.87	18.77	(4.0)	21.87	18.77	(4.0)	
SO5T15	17.30	(9.5)	17.30	(9.5)	17.23	(5.5)	17.23	(5.5)	19.49	(12.0)	16.04	(10.0)	15.99	(9.0)	21.65	(16.0)	20.37	21.72	(7.5)	21.31	21.72	(7.5)	21.31	21.72	(7.5)	21.31	21.72	(7.5)	21.31	21.72	(7.5)	
SO5T20	15.89	(4.5)	15.89	(4.5)	15.86	(1.5)	15.86	(1.5)	19.40	(12.0)	16.04	(10.0)	15.99	(9.0)	21.65	(16.0)	20.37	21.72	(7.5)	21.31	21.72	(7.5)	21.31	21.72	(7.5)	21.31	21.72	(7.5)	21.31	21.72	(7.5)	
SO10T5	20.44	(3.5)	20.44	(3.5)	20.49	(7.0)	20.49	(7.0)	22.69	(12.0)	20.31	(1.0)	22.48	(11.0)	20.37	(2.0)	23.48	20.31	(4.0)	23.48	20.31	(4.0)	23.48	20.31	(4.0)	23.48	20.31	(4.0)	23.48	20.31	(4.0)	
SO10T10	21.12	(3.5)	21.12	(3.5)	21.13	(3.5)	21.13	(3.5)	23.09	(12.0)	21.08	(1.0)	22.85	(11.0)	21.09	(2.0)	23.77	21.16	(8.5)	23.66	21.17	(8.5)	23.66	21.17	(8.5)	23.66	21.17	(8.5)	23.66	21.17	(8.5)	
SO10T15	19.39	(1.5)	19.39	(1.5)	19.44	(4.0)	19.44	(4.0)	21.93	(12.0)	20.71	(11.0)	21.70	(11.0)	20.69	(9.0)	22.80	20.71	(14.5)	20.69	21.70	(14.5)	20.69	21.70	(14.5)	20.69	21.70	(14.5)	20.69	21.70	(14.5)	
SO10T20	20.11	(4.5)	20.11	(4.5)	20.17	(9.0)	20.17	(9.0)	22.82	(12.0)	20.81	(11.0)	22.61	(9.0)	20.80	(16.0)	23.82	20.17	(4.5)	20.80	22.61	(4.5)	20.80	22.61	(4.5)	20.80	22.61	(4.5)	20.80	22.61	(4.5)	
Avg. Rank	(5.2)	(5.2)	(5.2)	(5.2)	(6.0)	(6.0)	(6.0)	(6.0)	(11.8)	(11.8)	(5.2)	(5.2)	(10.8)	(10.8)	(5.5)	(5.5)	(15.3)	(6.1)	(6.1)	(13.8)	(6.6)	(6.6)	(14.9)	(4.7)	(4.7)	(13.3)	(13.3)	(13.3)	(13.3)	(5.7)		