

dataset	MTZ\$SRE_BR	MTZ\$SRE_RC	MTZ\$SRE_STA	MTZ\$SRE_DBR	ZSMT\$SRE_BR	ZSMT\$SRE_RC	ZSMT\$SRE_STA	ZSMT\$SRE_DBR	MTZ\$SRM_BR	MTZ\$SRM_RC	MTZ\$SRM_STA	MTZ\$SRM_DBR	ZSMT\$SRM_BR	ZSMT\$SRM_RC	ZSMT\$SRM_STA	ZSMT\$SRM_DBR
S02T5	0.40	0.40	0.44	0.49	0.46	0.40	0.40	0.40	0.40	0.43	0.47	0.44	0.40	0.40	0.40	0.40
S02T10	0.54	0.57	0.57	0.60	0.59	0.54	0.54	0.54	0.53	0.56	0.59	0.57	0.53	0.53	0.53	0.53
S02T15	0.47	0.51	0.51	0.57	0.53	0.47	0.47	0.47	0.50	0.50	0.55	0.52	0.47	0.47	0.48	0.47
S02T20	0.35	0.39	0.39	0.45	0.42	0.35	0.35	0.35	0.35	0.38	0.43	0.41	0.35	0.35	0.35	0.35
S05T5	0.43	0.49	0.49	0.53	0.53	0.43	0.43	0.43	0.43	0.48	0.52	0.52	0.43	0.43	0.43	0.43
S05T10	0.46	0.51	0.51	0.54	0.54	0.46	0.46	0.46	0.46	0.50	0.54	0.53	0.46	0.46	0.46	0.46
S05T15	0.43	0.51	0.51	0.54	0.54	0.43	0.43	0.43	0.43	0.49	0.53	0.53	0.43	0.43	0.43	0.43
S05T20	0.39	0.48	0.48	0.54	0.53	0.39	0.39	0.39	0.39	0.46	0.52	0.51	0.39	0.39	0.40	0.40
S010T5	0.50	0.56	0.56	0.58	0.58	0.50	0.50	0.50	0.50	0.56	0.58	0.58	0.50	0.50	0.50	0.50
S010T10	0.52	0.57	0.57	0.59	0.59	0.52	0.52	0.52	0.52	0.57	0.59	0.59	0.52	0.52	0.52	0.52
S010T15	0.49	0.56	0.56	0.58	0.58	0.49	0.49	0.49	0.49	0.55	0.58	0.58	0.49	0.49	0.49	0.49
S010T20	0.50	0.57	0.57	0.60	0.60	0.50	0.50	0.50	0.50	0.56	0.59	0.59	0.50	0.50	0.50	0.50
Avg. Rank	(5.2)	(11.9)	(15.4)	(14.8)	(5.2)	(7.0)	(5.2)	(6.0)	(4.8)	(10.9)	(14.1)	(13.3)	(4.8)	(6.9)	(5.2)	(5.0)

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

dataset	MTZ\$SRE_BR	MTZ\$SRE_RC	MTZ\$SRE_STA	MTZ\$SRE_DBR	ZSMT\$SRE_BR	ZSMT\$SRE_RC	ZSMT\$SRE_STA	ZSMT\$SRE_DBR	MTZ\$SRM_BR	MTZ\$SRM_RC	MTZ\$SRM_STA	MTZ\$SRM_DBR	ZSMT\$SRM_BR	ZSMT\$SRM_RC	ZSMT\$SRM_STA	ZSMT\$SRM_DBR
S02T5	0.29	0.35	0.35	0.41	0.38	0.29	0.29	0.29	0.30	0.33	0.38	0.35	0.30	0.30	0.30	0.30
S02T10	0.59	0.65	0.65	0.71	0.68	0.59	0.59	0.59	0.59	0.63	0.68	0.65	0.59	0.59	0.58	0.58
S02T15	0.38	0.45	0.45	0.52	0.48	0.38	0.38	0.38	0.38	0.43	0.48	0.46	0.38	0.38	0.38	0.38
S02T20	0.21	0.28	0.28	0.31	0.31	0.21	0.21	0.21	0.21	0.26	0.33	0.29	0.21	0.21	0.21	0.21
S05T5	0.33	0.43	0.43	0.48	0.49	0.33	0.33	0.33	0.34	0.41	0.47	0.47	0.34	0.34	0.34	0.34
S05T10	0.37	0.45	0.45	0.50	0.50	0.37	0.37	0.37	0.37	0.44	0.49	0.48	0.37	0.37	0.37	0.37
S05T15	0.33	0.45	0.45	0.51	0.50	0.33	0.33	0.33	0.33	0.43	0.49	0.48	0.33	0.33	0.33	0.33
S05T20	0.26	0.39	0.39	0.48	0.48	0.26	0.26	0.26	0.26	0.37	0.46	0.44	0.26	0.26	0.26	0.26
S010T5	0.45	0.56	0.56	0.59	0.59	0.45	0.45	0.45	0.45	0.54	0.57	0.57	0.45	0.45	0.45	0.45
S010T10	0.47	0.56	0.56	0.59	0.60	0.47	0.47	0.47	0.47	0.55	0.59	0.59	0.47	0.47	0.48	0.47
S010T15	0.43	0.51	0.51	0.54	0.54	0.43	0.43	0.43	0.43	0.50	0.54	0.54	0.43	0.43	0.43	0.43
S010T20	0.43	0.55	0.55	0.60	0.60	0.43	0.43	0.43	0.43	0.54	0.59	0.59	0.43	0.43	0.43	0.43
Avg. Rank	(5.1)	(11.9)	(15.3)	(15.3)	(5.1)	(6.6)	(5.9)	(5.1)	(5.5)	(10.8)	(13.8)	(13.2)	(5.5)	(6.8)	(5.5)	(5.0)

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

dataset	MTZ\$SRE_BR	MTZ\$SRE_RC	MTZ\$SRE_STA	MTZ\$SRE_DBR	ZSMT\$SRE_BR	ZSMT\$SRE_RC	ZSMT\$SRE_STA	ZSMT\$SRE_DBR	MTZ\$SRM_BR	MTZ\$SRM_RC	MTZ\$SRM_STA	MTZ\$SRM_DBR	ZSMT\$SRM_BR	ZSMT\$SRM_RC	ZSMT\$SRM_STA	ZSMT\$SRM_DBR
S02T5	53.02	57.94	57.94	63.07	60.75	53.02	53.00	53.05	53.44	56.64	61.23	58.53	53.40	53.40	53.40	53.43
S02T10	71.29	75.81	75.81	80.14	78.14	71.29	71.13	71.13	71.15	70.95	74.20	78.23	75.84	75.84	75.84	75.84
S02T15	60.46	65.52	65.52	72.90	68.49	60.46	60.39	60.46	60.45	64.30	70.68	66.61	60.45	60.45	60.45	60.45
S02T20	44.58	50.70	50.70	58.28	54.79	44.58	44.38	44.52	44.77	49.44	56.13	52.58	44.77	44.77	44.77	44.77
S05T5	55.96	63.40	63.40	67.63	67.77	55.96	55.96	55.96	55.96	62.40	66.65	66.65	55.96	55.96	55.96	55.96
S05T10	59.10	65.52	65.52	69.05	68.84	59.10	59.03	59.07	59.03	64.37	68.19	67.74	59.06	59.06	59.06	59.06
S05T15	54.69	61.78	61.78	68.91	68.67	54.69	54.39	54.67	54.67	62.98	67.38	66.92	54.67	54.67	54.67	54.67
S05T20	50.26	61.34	61.34	68.48	67.36	50.26	50.26	50.26	50.26	59.48	66.76	65.73	50.15	50.15	50.15	50.15
S010T5	64.63	71.77	71.77	73.84	74.34	64.63	64.24	64.81	64.81	71.10	73.62	73.79	64.81	64.81	64.81	64.81
S010T10	66.79	73.01	73.01	75.18	75.77	66.79	66.83	66.87	66.87	72.37	74.81	75.21	66.87	66.87	66.87	66.87
S010T15	69.34	72.11	72.11	72.66	72.66	69.34	69.34	69.34	69.34	72.37	74.81	75.21	69.34	69.34	69.34	69.34
S010T20	63.60	72.17	72.17	75.32	75.74	63.60	63.60	63.60	63.60	71.50	74.92	75.14	63.60	63.60	63.60	63.60
Avg. Rank	(5.2)	(11.8)	(15.3)	(15.3)	(14.9)	(5.2)	(5.2)	(6.2)	(4.7)	(5.8)	(10.8)	(13.8)	(13.3)	(5.8)	(5.4)	(5.0)

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

dataset	MTZ\$SRE_BR	MTZ\$SRE_RC	MTZ\$SRE_STA	MTZ\$SRE_DBR	ZSMT\$SRE_BR	ZSMT\$SRE_RC	ZSMT\$SRE_STA	ZSMT\$SRE_DBR	MTZ\$SRM_BR	MTZ\$SRM_RC	MTZ\$SRM_STA	MTZ\$SRM_DBR	ZSMT\$SRM_BR	ZSMT\$SRM_RC	ZSMT\$SRM_STA	ZSMT\$SRM_DBR
S02T5	54.85	59.93	59.93	65.03	62.66	54.85	54.80	54.87	54.81	55.32	58.62	63.19	60.46	60.46	60.46	60.46
S02T10	73.28	77.68	77.68	80.10	78.14	73.28	73.12	73.12	73.14	72.93	76.11	80.23	77.82	77.82	77.82	77.82
S02T15	67.79	72.40	72.40	75.79	75.79	67.79	67.79	67.79	67.79	70.95	74.20	78.23	75.84	75.84	75.84	75.84
S02T20	47.62	53.89	53.89	62.40	58.73	47.62	47.62	47.62	47.62	52.59	56.13	60.09	56.34	56.34	56.34	56.34
S05T5	55.10	62.50	62.50	66.56	66.69	55.10	55.10	55.10	55.10	61.51	65.42	65.60	55.10	55.10	55.10	55.10
S05T10	63.94	71.01	71.01	74.73	74.56	63.94	63.92	63.92	63.92	68.73	73.78	73.38	63.92	63.92	63.92	63.92
S05T15	53.72	63.61	63.61	67.63	67.44	53.72	53.72	53.72	53.70	61.82	66.11	66.11	53.50	53.50	53.50	53.50
S05T20	52.04	63.61	63.61	70.75	69.59	52.04	52.08	52.08	52.08	61.68	66.97	67.49	52.42	52.42	52.42	52.42
S010T5	62.92	69.77	69.77	71.75	72.26	62.92	62.92	62.92	62.92	68.83	71.53	73.01	62.92	62.92	62.92	62.92
S010T10	68.25	74.75	74.75	76.98	77.59	68.25	68.10	68.36	68.30	74.00	76.60	77.01	68.31	68.31	68.31	68.31
S010T15	60.19	68.27	68.27	71.01	71.56	60.19	60.35	60.35	60.35	67.55	70.65	71.01	60.35	60.35	60.35	60.35
S010T20	61.58	69.65	69.65	72.79	73.18	61.58	61.75	61.75	61.77	69.01	72.41	72.60	61.77	61.77	61.77	61.77
Avg. Rank	(5.1)	(11.8)	(15.3)	(15.3)	(14.9)	(5.1)	(5.2)	(6.0)	(4.5)	(6.0)	(10.8)	(13.8)	(13.3)	(6.0)	(5.5)	(5.7)

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

dataset	MTZ\$SRE_BR		MTZ\$SRE_RC		MTZ\$SRE_STA		MTZ\$SRE_DBR		ZSMT\$SRE_BR		ZSMT\$SRE_RC		ZSMT\$SRE_STA		ZSMT\$SRE_DBR		MTZ\$SRM_BR		MTZ\$SRM_RC		MTZ\$SRM_STA		MTZ\$SRM_DBR		ZSMT\$SRM_BR		ZSMT\$SRM_RC		ZSMT\$SRM_STA		ZSMT\$SRM_DBR	
S02T5	16.77	(3.0)	18.32	(12.0)	19.95	(16.0)	19.20	(14.0)	16.77	(3.0)	16.76	(1.0)	16.78	(5.0)	16.77	(3.0)	16.90	(8.0)	17.91	(11.0)	19.36	(15.0)	18.51	(13.0)	16.90	(8.0)	16.89	(6.0)	16.92	(10.0)	16.90	(8.0)
S02T10	22.54	(8.0)	23.97	(22.0)	25.34	(16.0)	24.71	(14.0)	22.54	(8.0)	22.49	(6.5)	22.49	(6.5)	22.43	(4.5)	22.43	(4.5)	23.46	(11.0)	24.74	(15.0)	25.98	(21.0)	22.43	(15.0)	22.39	(14.0)	22.38	(11.0)	22.39	(11.0)
S02T15	19.12	(8.0)	20.72	(12.0)	23.05	(14.0)	21.66	(10.0)	19.12	(8.0)	19.10	(8.0)	19.12	(10.0)	19.08	(10.0)	19.12	(10.0)	20.33	(14.0)	22.35	(15.0)	21.06	(13.0)	19.09	(19.0)	19.11	(13.0)	19.07	(11.0)	19.11	(14.0)
S02T20	14.10	(5.0)	16.03	(12.0)	18.43	(16.0)	17.32	(14.0)	14.10	(5.0)	14.04	(1.0)	14.08	(3.0)	14.05	(2.0)	14.16	(9.5)	15.64	(14.0)	17.75	(15.0)	16.63	(12.0)	14.16	(9.5)	14.29	(4.0)	14.11	(7.0)	14.11	(7.0)
S05T5	17.69	(2.5)	20.05	(10.0)	21.39	(13.0)	21.43	(14.0)	17.69	(2.5)	22.18	(15.0)	17.77	(4.0)	17.67	(6.0)	17.80	(6.5)	19.73	(9.0)	21.08	(12.0)	21.04	(11.0)	17.80	(6.5)	17.79	(16.0)	17.82	(8.0)	17.78	(5.0)
S05T10	18.69	(2.0)	20.72	(14.0)	21.84	(16.0)	21.77	(15.0)	18.69	(2.0)	18.64	(2.0)	18.67	(4.0)	18.68	(4.5)	18.68	(4.5)	20.35	(11.0)	21.56	(14.0)	21.42	(13.0)	18.68	(15.0)	18.67	(13.0)	18.66	(10.0)	18.66	(10.0)
S05T15	17.30	(9.5)	20.49	(12.0)	21.79	(16.0)	21.72	(15.0)	17.30	(9.5)	17.29	(7.5)	17.29	(7.5)	17.29	(7.5)	19.91	(12.0)	21.31	(14.0)	21.26	(14.0)	21.14	(13.0)	17.23	(5.5)	17.13	(3.5)	17.22	(3.5)	17.22	(3.5)
S05T20	15.89	(4.5)	19.40	(12.0)	21.65	(16.0)	21.30	(15.0)	15.89	(4.5)	16.04	(10.0)	15.90	(6.0)	15.95	(8.0)	15.86	(1.5)	18.81	(11.0)	21.11	(14.0)	21.06	(13.0)	15.86	(1.5)	15.99	(9.0)	15.87	(7.0)	15.91	(7.0)
S010T5	20.44	(10.0)	22.69	(24.0)	23.35	(16.0)	23.51	(14.0)	20.44	(10.0)	20.49	(8.0)	20.46	(8.0)	20.49	(8.0)	22.48	(15.0)	23.28	(18.0)	23.03	(20.0)	20.66	(14.0)	20.55	(14.0)	20.55	(14.0)	20.55	(14.0)	20.55	(14.0)
S010T10	23.12	(5.5)	23.09	(12.0)	23.77	(16.0)	23.96	(16.0)	23.12	(5.5)	21.12	(3.5)	21.16	(8.5)	21.15	(7.0)	21.15	(5.5)	22.85	(11.0)	23.66	(13.0)	21.13	(5.5)	21.13	(5.5)	21.09	(2.0)	21.17	(10.0)	21.16	(8.5)
S010T15	19.39	(1.5)	21.93	(12.0)	22.80	(14.5)	22.98	(16.0)	19.39	(1.5)	20.71	(10.0)	20.71	(10.0)	20.71	(10.0)	20.71	(10.0)	21.70	(11.0)	22.69	(13.0)	22.80	(14.5)	19.44	(4.0)	19.44	(4.0)	19.50	(8.0)	19.49	(7.0)
S010T20	20.11	(5.0)	22.82	(16.0)	23.82	(16.0)	23.95	(15.0)	20.11	(5.0)	20.81	(4.5)	20.17	(11.0)	20.17	(11.0)	20.17	(11.0)	22.61	(14.5)	23.69	(16.0)	23.76	(16.0)	20.17	(11.0)	20.60	(9.0)	20.24	(10.0)	20.23	(10.0)
Avg. Rank	(5.2)		(11.8)		(15.3)		(14.9)		(5.2)		(5.2)		(6.1)		(4.7)		(6.0)		(10.8)		(13.8)		(13.3)		(6.0)		(5.5)		(6.6)		(6.7)	