

Results of the experiments on the 4 water quality parameters

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Authors:
Luís Torgo
Orlando Ohashi

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Chapter 1

Window Size 30

This chapter presents the results for the 4 water quality parameters for the window size of 30 values, $k = 30$.

1.1 Aluminum

1.1.1 MAQ - Mean Absolute Quantile Deviation

Figure 1.1 shows the results using the MAQ error measure for all different setups.

Table 1.1 shows all setups order by the MAQ error.

	MAQ.Q1	MAQ.Q3	MAQ
Quantile SVM cost 1 gamma 0.001	3.54	6.98	5.26
Quantile RF ntree 1000	3.66	7.68	5.67
Quantile RF ntree 1500	3.67	7.69	5.68
Quantile RF ntree 500	3.67	7.69	5.68
Nmodels QRF ntree 500	3.49	8.07	5.78
Nmodels QRF ntree 1500	3.5	8.06	5.78
Nmodels QRF ntree 1000	3.5	8.07	5.78
Iterated QRF ntree 1000	3.81	8.15	5.98
Iterated QRF ntree 1500	3.82	8.18	6
Iterated QRF ntree 500	3.83	8.19	6.01
Quantile SVM cost 5 gamma 0.001	4.05	8.19	6.12
Quantile RT se 0	3.87	8.42	6.14
Quantile SVM cost 1 gamma 0.01	4	8.32	6.16
Quantile SVM cost 1 gamma 0.05	3.88	8.45	6.16
Quantile RT se 0.5	4.02	8.33	6.17
Quantile SVM cost 1 gamma 0.1	3.97	8.62	6.29

Quantile RT se 1	4.16	8.64	6.4
Quantile SVM cost 10 gamma 0.001	4.32	8.64	6.48
Quantile RT se 1.5	4.25	8.79	6.52
Nmodels SVM cost 5 gamma 0.05	5.35	7.7	6.52
Quantile SVM cost 5 gamma 0.1	4.16	8.89	6.53
Quantile SVM cost 5 gamma 0.01	4.18	8.92	6.55
Nmodels SVM cost 10 gamma 0.05	5.26	7.85	6.56
Quantile SVM cost 5 gamma 0.05	4.12	9	6.56
Quantile SVM cost 10 gamma 0.1	4.29	9.01	6.65
Quantile SVM cost 10 gamma 0.05	4.24	9.11	6.67
Quantile SVM cost 100 gamma 0.1	4.3	9.11	6.7
Nmodels SVM cost 1 gamma 0.05	5.48	7.93	6.71
Quantile SVM cost 50 gamma 0.1	4.35	9.13	6.74
Nmodels SVM cost 5 gamma 0.001	5.88	7.68	6.78
Quantile SVM cost 10 gamma 0.01	4.3	9.26	6.78
Nmodels SVM cost 5 gamma 0.01	5.64	7.94	6.79
Nmodels SVM cost 5 gamma 0.1	5.35	8.27	6.81
Nmodels SVM cost 1 gamma 0.01	5.67	7.97	6.82
Iterated SVM cost 1 gamma 0.001	4.72	9.01	6.86
Nmodels SVM cost 10 gamma 0.01	5.77	8	6.88
Nmodels SVM cost 10 gamma 0.001	5.99	7.78	6.88
Nmodels SVM cost 1 gamma 0.1	5.57	8.2	6.88
Nmodels SVM cost 10 gamma 0.1	5.16	8.63	6.9
Quantile SVM cost 50 gamma 0.05	4.54	9.36	6.95
Nmodels SVM cost 1 gamma 0.001	6.01	7.91	6.96
Nmodels SVM cost 50 gamma 0.01	6.15	7.86	7.01
Nmodels SVM cost 50 gamma 0.05	5.1	8.92	7.01
Quantile SVM cost 50 gamma 0.001	4.69	9.51	7.1
Quantile SVM cost 100 gamma 0.05	4.61	9.63	7.12
Nmodels SVM cost 50 gamma 0.1	4.6	9.77	7.19
Nmodels SVM cost 100 gamma 0.1	4.47	10.24	7.35
Quantile SVM cost 50 gamma 0.01	4.68	10.04	7.36
Nmodels SVM cost 100 gamma 0.01	6.61	8.16	7.38
Nmodels SVM cost 50 gamma 0.001	6.63	8.17	7.4
Nmodels SVM cost 100 gamma 0.05	5.26	9.55	7.4
Quantile SVM cost 100 gamma 0.001	4.86	9.97	7.41
Iterated SVM cost 5 gamma 0.001	6.06	9.07	7.56
Quantile SVM cost 100 gamma 0.01	4.93	10.3	7.62
Iterated SVM cost 1 gamma 0.01	5.97	9.27	7.62
Nmodels SVM cost 100 gamma 0.001	7.1	8.33	7.71
Iterated SVM cost 5 gamma 0.05	6.27	9.27	7.77

Iterated SVM cost 1 gamma 0.05	6.27	9.4	7.84
Quantile QRF ntree 500	7.51	8.17	7.84
Quantile QRF ntree 1000	7.48	8.2	7.84
Iterated SVM cost 1 gamma 0.1	6.24	9.45	7.84
Quantile QRF ntree 1500	7.5	8.19	7.84
Iterated SVM cost 5 gamma 0.01	6.49	9.36	7.92
Iterated SVM cost 10 gamma 0.05	6.41	9.46	7.93
Iterated SVM cost 10 gamma 0.01	6.62	9.48	8.05
Iterated SVM cost 5 gamma 0.1	6.56	9.54	8.05
Nmodels RF ntree 1500	8.52	7.7	8.11
Nmodels RF ntree 500	8.51	7.73	8.12
Nmodels RF ntree 1000	8.54	7.71	8.13
Iterated SVM cost 10 gamma 0.001	6.81	9.71	8.26
Iterated SVM cost 10 gamma 0.1	6.76	10.08	8.42
Iterated SVM cost 50 gamma 0.01	7.43	9.8	8.61
Nmodels RT se 0	8.37	9.11	8.74
RW	5.91	11.71	8.81
Iterated SVM cost 100 gamma 0.01	7.78	10.13	8.95
Iterated SVM cost 50 gamma 0.1	7.21	10.81	9.01
Nmodels RT se 0.5	8.83	9.25	9.04
Nmodels RT se 1	8.89	9.48	9.19
Iterated SVM cost 50 gamma 0.05	7.25	11.15	9.2
Iterated SVM cost 100 gamma 0.1	7.34	11.19	9.27
Nmodels RT se 1.5	8.91	9.75	9.33
Iterated SVM cost 100 gamma 0.05	7.76	11.61	9.69
Iterated SVM cost 50 gamma 0.001	8.26	11.44	9.85
Iterated SVM cost 100 gamma 0.001	8.79	12.04	10.42
Iterated RT se 1.5	11.02	10.28	10.65
Iterated RT se 0.5	11.24	10.08	10.66
Iterated RT se 1	11.17	10.15	10.66
Iterated RF ntree 1500	11.34	10.25	10.8
Iterated RF ntree 500	11.33	10.31	10.82
Iterated RT se 0	12.06	9.63	10.84
Iterated RF ntree 1000	11.41	10.36	10.88

Table 1.1: All setups MAQ

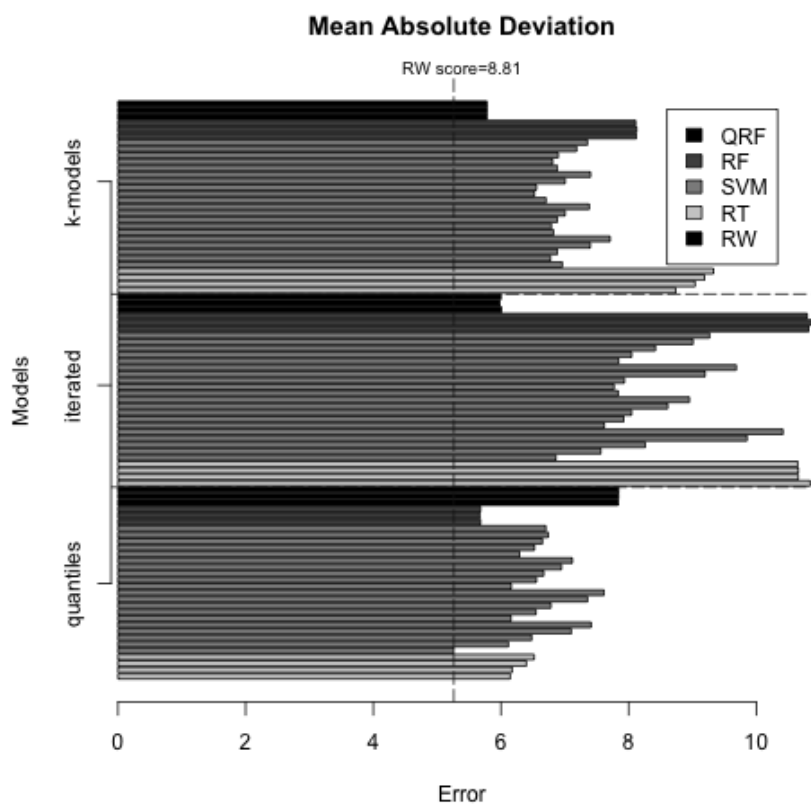


Figure 1.1: Aluminium

1.1.2 TQE - Total Quantile Error

Figure 1.2 shows the results using the TQE error measure for all different setups.

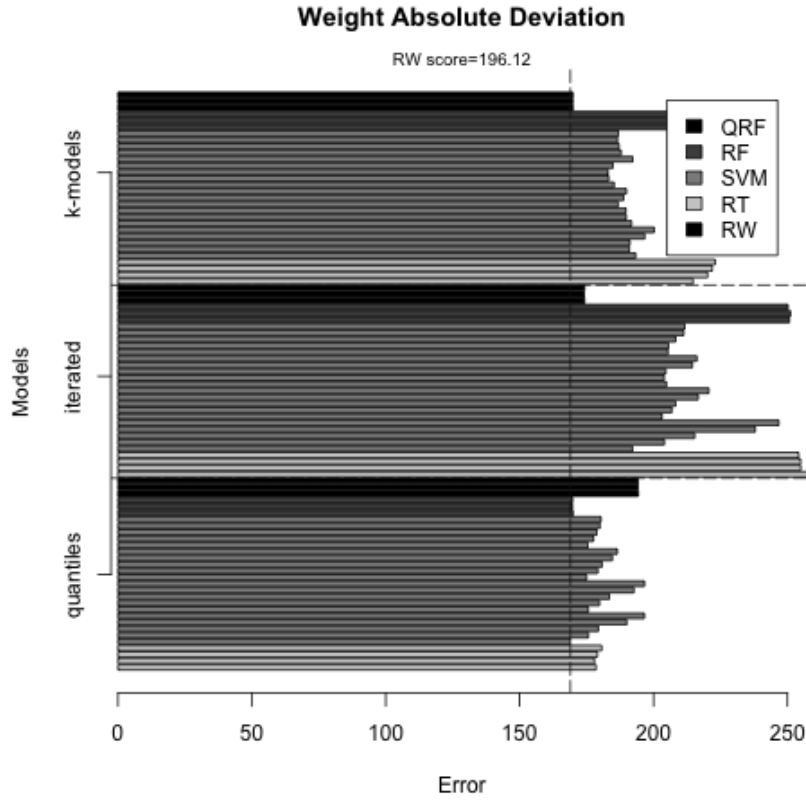


Figure 1.2: Aluminium

Table 1.2 shows all setups order by the TQE error.

	TQE.Q1	TQE.Q3	QTE
Quantile SVM cost 1 gamma 0.001	66.66	102.25	168.91
Quantile RF ntree 1000	67.44	102.27	169.71
Quantile RF ntree 1500	67.48	102.28	169.76
Nmodels QRF ntree 500	65.34	104.52	169.85
Nmodels QRF ntree 1000	65.34	104.51	169.86
Nmodels QRF ntree 1500	65.35	104.51	169.86
Quantile RF ntree 500	67.51	102.4	169.91

Iterated QRF ntree 1000	67.01	107.07	174.08
Iterated QRF ntree 500	66.99	107.24	174.23
Iterated QRF ntree 1500	67.04	107.2	174.24
Quantile SVM cost 1 gamma 0.05	67.41	107.57	174.98
Quantile SVM cost 1 gamma 0.1	67.52	107.96	175.49
Quantile SVM cost 1 gamma 0.01	68.78	106.84	175.62
Quantile SVM cost 5 gamma 0.001	69.16	106.51	175.67
Quantile SVM cost 5 gamma 0.1	68.36	109.19	177.56
Quantile RT se 0.5	71.36	106.53	177.89
Quantile RT se 0	70.91	107.61	178.52
Quantile SVM cost 10 gamma 0.1	69.18	109.64	178.82
Quantile RT se 1	71.72	107.29	179.01
Quantile SVM cost 5 gamma 0.05	68.17	111.01	179.18
Quantile SVM cost 10 gamma 0.001	70.15	109.2	179.35
Quantile SVM cost 5 gamma 0.01	68.9	110.91	179.81
Quantile SVM cost 50 gamma 0.1	69.54	110.41	179.95
Quantile SVM cost 100 gamma 0.1	69.44	110.92	180.36
Quantile RT se 1.5	72.25	108.38	180.62
Quantile SVM cost 10 gamma 0.05	68.8	111.94	180.74
Nmodels SVM cost 50 gamma 0.05	74.81	108.21	183.01
Nmodels SVM cost 10 gamma 0.05	77.13	106.1	183.23
Quantile SVM cost 10 gamma 0.01	69.16	114.3	183.46
Quantile SVM cost 50 gamma 0.05	70.9	113.7	184.6
Nmodels SVM cost 100 gamma 0.05	74.51	110.28	184.8
Nmodels SVM cost 5 gamma 0.05	78.22	107.05	185.26
Quantile SVM cost 100 gamma 0.05	71.47	115.01	186.49
Nmodels SVM cost 50 gamma 0.1	74.48	112.06	186.54
Nmodels SVM cost 50 gamma 0.01	80.41	106.31	186.71
Nmodels SVM cost 100 gamma 0.1	73.07	113.8	186.88
Nmodels SVM cost 10 gamma 0.1	78.43	108.66	187.09
Nmodels SVM cost 5 gamma 0.1	79.55	108.32	187.88
Nmodels SVM cost 100 gamma 0.01	82.13	106.65	188.77
Nmodels SVM cost 10 gamma 0.01	79.59	110.07	189.66
Nmodels SVM cost 5 gamma 0.01	79.1	110.69	189.78
Nmodels SVM cost 1 gamma 0.05	78.93	110.94	189.86
Quantile SVM cost 50 gamma 0.001	71.61	118.36	189.98
Nmodels SVM cost 5 gamma 0.001	80.91	110.02	190.93
Nmodels SVM cost 10 gamma 0.001	81	110.14	191.15
Nmodels SVM cost 1 gamma 0.01	79.85	111.93	191.78
Iterated SVM cost 1 gamma 0.001	73.94	118.17	192.1
Nmodels SVM cost 1 gamma 0.1	79.93	112.27	192.2

Quantile SVM cost 50 gamma 0.01	70.82	121.82	192.65
Nmodels SVM cost 1 gamma 0.001	80.74	112.56	193.3
Quantile QRF ntree 1000	90.02	104.18	194.2
Quantile QRF ntree 1500	90.11	104.13	194.24
Quantile QRF ntree 500	90.22	104.08	194.3
RW	72.36	123.76	196.12
Quantile SVM cost 100 gamma 0.001	72.38	124.2	196.58
Quantile SVM cost 100 gamma 0.01	72.09	124.52	196.61
Nmodels SVM cost 50 gamma 0.001	84.32	112.37	196.69
Nmodels SVM cost 100 gamma 0.001	86.72	113.48	200.19
Iterated SVM cost 1 gamma 0.01	84.6	118.54	203.14
Iterated SVM cost 5 gamma 0.05	88.35	115.59	203.95
Iterated SVM cost 5 gamma 0.001	84.19	119.83	204.01
Iterated SVM cost 10 gamma 0.05	90.42	114.14	204.57
Iterated SVM cost 1 gamma 0.05	87.52	117.26	204.77
Iterated SVM cost 1 gamma 0.1	88.44	116.94	205.37
Iterated SVM cost 5 gamma 0.1	92.66	112.9	205.56
Nmodels RF ntree 500	101.7	103.9	205.6
Nmodels RF ntree 1500	101.91	103.8	205.71
Nmodels RF ntree 1000	101.94	103.84	205.79
Iterated SVM cost 5 gamma 0.01	86.44	120.35	206.79
Iterated SVM cost 10 gamma 0.01	85.85	122.36	208.21
Iterated SVM cost 10 gamma 0.1	93.62	114.6	208.23
Iterated SVM cost 50 gamma 0.1	94.25	117.02	211.27
Iterated SVM cost 100 gamma 0.1	94.47	117.17	211.64
Iterated SVM cost 50 gamma 0.05	95.66	118.83	214.49
Nmodels RT se 0	101.91	112.83	214.74
Iterated SVM cost 10 gamma 0.001	88.62	126.74	215.36
Iterated SVM cost 100 gamma 0.05	95.95	120.2	216.16
Iterated SVM cost 50 gamma 0.01	91.35	125.32	216.67
Nmodels RT se 0.5	105.99	114.17	220.16
Iterated SVM cost 100 gamma 0.01	93.51	127.13	220.63
Nmodels RT se 1	106.67	115.23	221.9
Nmodels RT se 1.5	106.83	116.14	222.98
Iterated SVM cost 50 gamma 0.001	96.07	141.91	237.98
Iterated SVM cost 100 gamma 0.001	98.91	147.84	246.75
Iterated RF ntree 1500	134.98	115.22	250.2
Iterated RF ntree 500	135.19	115.52	250.71
Iterated RF ntree 1000	135.26	115.85	251.11
Iterated RT se 1.5	130.05	124.15	254.2
Iterated RT se 1	130.92	123.98	254.9

Iterated RT se 0.5	132.15	122.81	254.96
Iterated RT se 0	140.87	118.54	259.42

Table 1.2: All setups TQE

1.1.3 Utility

Figure 1.3 shows the results using the Utility error measure (larger is better) for all different setups.

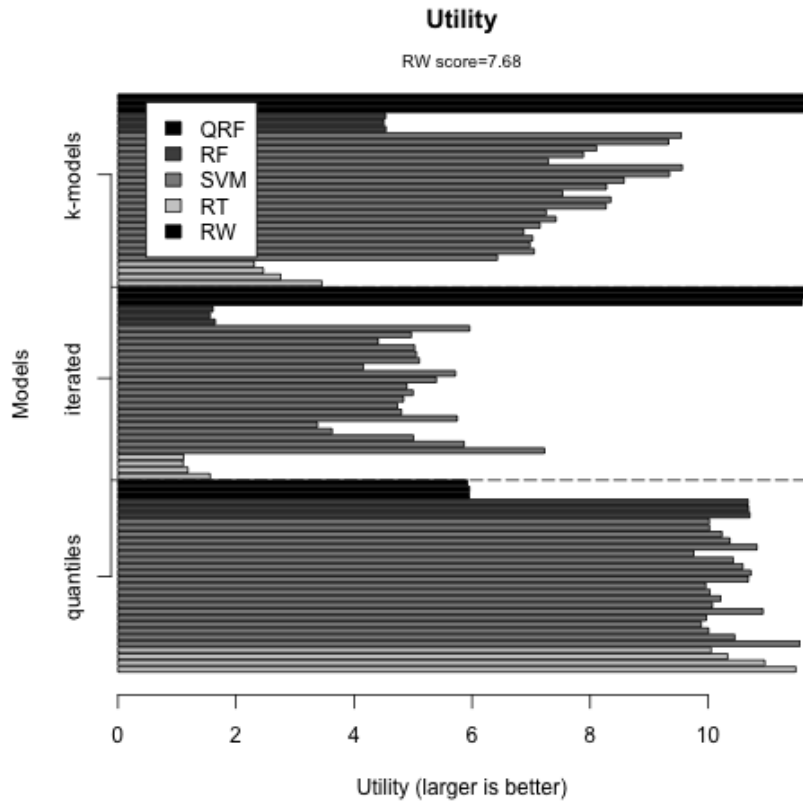


Figure 1.3: Aluminium

Table 1.3 shows all setups order by the Utility.

	utility
Nmodels QRF ntree 1500	11.77
Iterated QRF ntree 1000	11.75
Nmodels QRF ntree 500	11.69
Nmodels QRF ntree 1000	11.67
Iterated QRF ntree 1500	11.65
Iterated QRF ntree 500	11.6
Quantile SVM cost 1 gamma 0.001	11.55

Quantile RT se 0	11.49
Quantile RT se 0.5	10.96
Quantile SVM cost 1 gamma 0.01	10.93
Quantile SVM cost 1 gamma 0.1	10.83
Quantile SVM cost 5 gamma 0.05	10.72
Quantile RF ntree 500	10.71
Quantile RF ntree 1000	10.68
Quantile SVM cost 1 gamma 0.05	10.68
Quantile RF ntree 1500	10.68
Quantile SVM cost 10 gamma 0.05	10.59
Quantile SVM cost 5 gamma 0.001	10.45
Quantile SVM cost 50 gamma 0.05	10.43
Quantile SVM cost 5 gamma 0.1	10.37
Quantile RT se 1	10.33
Quantile SVM cost 10 gamma 0.1	10.23
Quantile SVM cost 10 gamma 0.01	10.21
Quantile SVM cost 5 gamma 0.01	10.07
Quantile RT se 1.5	10.05
Quantile SVM cost 50 gamma 0.01	10.03
Quantile SVM cost 50 gamma 0.1	10.02
Quantile SVM cost 100 gamma 0.1	10.02
Quantile SVM cost 10 gamma 0.001	10.01
Quantile SVM cost 100 gamma 0.001	9.97
Quantile SVM cost 100 gamma 0.01	9.96
Quantile SVM cost 50 gamma 0.001	9.88
Quantile SVM cost 100 gamma 0.05	9.76
Nmodels SVM cost 100 gamma 0.05	9.56
Nmodels SVM cost 100 gamma 0.1	9.54
Nmodels SVM cost 50 gamma 0.05	9.35
Nmodels SVM cost 50 gamma 0.1	9.33
Nmodels SVM cost 10 gamma 0.05	8.58
Nmodels SVM cost 100 gamma 0.01	8.35
Nmodels SVM cost 5 gamma 0.05	8.28
Nmodels SVM cost 50 gamma 0.01	8.27
Nmodels SVM cost 10 gamma 0.1	8.11
Nmodels SVM cost 5 gamma 0.1	7.89
RW	7.68
Nmodels SVM cost 1 gamma 0.05	7.53
Nmodels SVM cost 5 gamma 0.01	7.42
Nmodels SVM cost 1 gamma 0.1	7.29
Nmodels SVM cost 10 gamma 0.01	7.25

Iterated SVM cost 1 gamma 0.001	7.23
Nmodels SVM cost 1 gamma 0.01	7.15
Nmodels SVM cost 5 gamma 0.001	7.05
Nmodels SVM cost 50 gamma 0.001	7.03
Nmodels SVM cost 10 gamma 0.001	6.98
Nmodels SVM cost 100 gamma 0.001	6.87
Nmodels SVM cost 1 gamma 0.001	6.43
Iterated SVM cost 100 gamma 0.1	5.96
Quantile QRF ntree 1000	5.96
Quantile QRF ntree 500	5.95
Quantile QRF ntree 1500	5.92
Iterated SVM cost 5 gamma 0.001	5.86
Iterated SVM cost 1 gamma 0.01	5.75
Iterated SVM cost 10 gamma 0.05	5.72
Iterated SVM cost 5 gamma 0.05	5.39
Iterated SVM cost 100 gamma 0.05	5.11
Iterated SVM cost 1 gamma 0.1	5.06
Iterated SVM cost 5 gamma 0.1	5.03
Iterated SVM cost 10 gamma 0.001	5.01
Iterated SVM cost 100 gamma 0.01	5
Iterated SVM cost 50 gamma 0.1	4.97
Iterated SVM cost 1 gamma 0.05	4.89
Iterated SVM cost 50 gamma 0.01	4.84
Iterated SVM cost 5 gamma 0.01	4.8
Iterated SVM cost 10 gamma 0.01	4.73
Nmodels RF ntree 500	4.54
Nmodels RF ntree 1500	4.54
Nmodels RF ntree 1000	4.51
Iterated SVM cost 10 gamma 0.1	4.41
Iterated SVM cost 50 gamma 0.05	4.16
Iterated SVM cost 50 gamma 0.001	3.63
Nmodels RT se 0	3.46
Iterated SVM cost 100 gamma 0.001	3.38
Nmodels RT se 0.5	2.76
Nmodels RT se 1	2.46
Nmodels RT se 1.5	2.31
Iterated RF ntree 500	1.65
Iterated RF ntree 1500	1.61
Iterated RT se 0	1.56
Iterated RF ntree 1000	1.56
Iterated RT se 0.5	1.18

Iterated RT se 1.5	1.11
Iterated RT se 1	1.1

Table 1.3: All setups Utility

1.2 Iron

1.2.1 MAQ - Mean Absolute Quantile Deviation

Figure 1.4 shows the results using the MAQ error measure for all different setups.

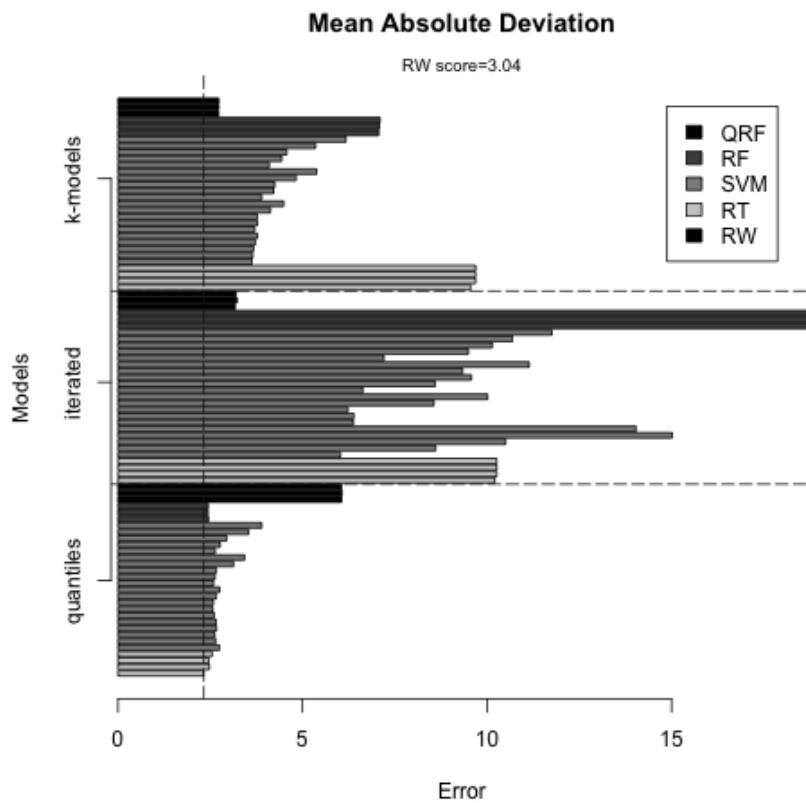


Figure 1.4: Iron

Table 1.4 shows all setups order by the MAQ error.

	MAQ.Q1	MAQ.Q3	MAQ
Quantile RT se 0	0.02	4.63	2.32
Quantile RF ntree 1000	0.06	4.81	2.44
Quantile RF ntree 1500	0.07	4.82	2.44
Quantile RF ntree 500	0.07	4.84	2.45
Quantile RT se 1	0.03	4.89	2.46

Quantile RT se 0.5	0.03	4.93	2.48
Quantile RT se 1.5	0.04	5.06	2.55
Quantile SVM cost 5 gamma 0.01	0.15	4.99	2.57
Quantile SVM cost 10 gamma 0.01	0.14	5.03	2.58
Quantile SVM cost 1 gamma 0.05	0.19	4.99	2.59
Quantile SVM cost 1 gamma 0.01	0.18	5.03	2.61
Quantile SVM cost 10 gamma 0.001	0.14	5.11	2.62
Quantile SVM cost 5 gamma 0.05	0.15	5.11	2.63
Quantile SVM cost 1 gamma 0.1	0.19	5.08	2.63
Quantile SVM cost 5 gamma 0.001	0.16	5.13	2.65
Quantile SVM cost 100 gamma 0.001	0.12	5.2	2.66
Quantile SVM cost 10 gamma 0.05	0.15	5.18	2.66
Quantile SVM cost 50 gamma 0.01	0.13	5.2	2.66
Quantile SVM cost 50 gamma 0.001	0.12	5.22	2.67
Nmodels QRF ntree 500	0.01	5.45	2.73
Nmodels QRF ntree 1000	0.01	5.45	2.73
Nmodels QRF ntree 1500	0.01	5.46	2.73
Quantile SVM cost 1 gamma 0.001	0.28	5.22	2.75
Quantile SVM cost 100 gamma 0.01	0.13	5.37	2.75
Quantile SVM cost 5 gamma 0.1	0.17	5.36	2.77
Quantile SVM cost 10 gamma 0.1	0.18	5.71	2.94
RW	0.57	5.52	3.04
Quantile SVM cost 50 gamma 0.05	0.14	6.12	3.13
Iterated QRF ntree 500	0	6.35	3.18
Iterated QRF ntree 1500	0	6.4	3.2
Iterated QRF ntree 1000	0	6.45	3.23
Quantile SVM cost 100 gamma 0.05	0.15	6.71	3.43
Quantile SVM cost 50 gamma 0.1	0.18	6.9	3.54
Nmodels SVM cost 1 gamma 0.001	2.28	4.99	3.63
Nmodels SVM cost 5 gamma 0.001	2.18	5.12	3.65
Nmodels SVM cost 10 gamma 0.001	2.19	5.16	3.67
Nmodels SVM cost 1 gamma 0.01	2.26	5.15	3.7
Nmodels SVM cost 50 gamma 0.001	2.25	5.18	3.72
Nmodels SVM cost 10 gamma 0.01	2.34	5.2	3.77
Nmodels SVM cost 100 gamma 0.001	2.33	5.21	3.77
Nmodels SVM cost 5 gamma 0.01	2.32	5.23	3.78
Quantile SVM cost 100 gamma 0.1	0.2	7.59	3.9
Nmodels SVM cost 1 gamma 0.05	2.48	5.32	3.9
Nmodels SVM cost 1 gamma 0.1	2.67	5.53	4.1
Nmodels SVM cost 50 gamma 0.01	2.65	5.62	4.13
Nmodels SVM cost 5 gamma 0.05	2.73	5.7	4.22

Nmodels SVM cost 10 gamma 0.05	2.68	5.81	4.25
Nmodels SVM cost 5 gamma 0.1	2.76	6.11	4.44
Nmodels SVM cost 100 gamma 0.01	2.93	6.05	4.49
Nmodels SVM cost 10 gamma 0.1	2.67	6.47	4.57
Nmodels SVM cost 50 gamma 0.05	2.94	6.72	4.83
Nmodels SVM cost 50 gamma 0.1	3.18	7.52	5.35
Nmodels SVM cost 100 gamma 0.05	3.31	7.45	5.38
Iterated SVM cost 1 gamma 0.001	4.9	7.16	6.03
Quantile QRF ntree 1500	5.12	6.99	6.06
Quantile QRF ntree 500	5.14	6.98	6.06
Quantile QRF ntree 1000	5.13	7.01	6.07
Nmodels SVM cost 100 gamma 0.1	3.81	8.54	6.17
Iterated SVM cost 10 gamma 0.01	5.24	7.23	6.23
Iterated SVM cost 1 gamma 0.01	5.31	7.44	6.38
Iterated SVM cost 5 gamma 0.01	5.31	7.47	6.39
Iterated SVM cost 1 gamma 0.05	5.68	7.58	6.63
Nmodels RF ntree 500	5.71	8.43	7.07
Nmodels RF ntree 1000	5.75	8.41	7.08
Nmodels RF ntree 1500	5.74	8.46	7.1
Iterated SVM cost 1 gamma 0.1	6.08	8.33	7.21
Iterated SVM cost 50 gamma 0.01	5.28	11.84	8.56
Iterated SVM cost 5 gamma 0.05	5.78	11.4	8.59
Iterated SVM cost 5 gamma 0.001	5.55	11.67	8.61
Iterated SVM cost 50 gamma 0.05	4.6	14.07	9.34
Iterated SVM cost 5 gamma 0.1	6.84	12.15	9.49
Nmodels RT se 0	9.82	9.28	9.55
Iterated SVM cost 10 gamma 0.05	6.04	13.12	9.58
Nmodels RT se 0.5	9.99	9.39	9.69
Nmodels RT se 1.5	10	9.39	9.69
Nmodels RT se 1	10	9.39	9.69
Iterated SVM cost 100 gamma 0.01	5.44	14.59	10.02
Iterated SVM cost 10 gamma 0.1	6.87	13.4	10.14
Iterated RT se 0	12.86	7.56	10.21
Iterated RT se 0.5	12.96	7.57	10.26
Iterated RT se 1	12.96	7.57	10.26
Iterated RT se 1.5	12.96	7.57	10.26
Iterated SVM cost 10 gamma 0.001	5.94	15.07	10.5
Iterated SVM cost 50 gamma 0.1	5.54	15.84	10.69
Iterated SVM cost 100 gamma 0.05	4.76	17.52	11.14
Iterated SVM cost 100 gamma 0.1	5.77	17.74	11.76
Iterated SVM cost 100 gamma 0.001	6.65	21.42	14.03

Iterated SVM cost 50 gamma 0.001	6.71	23.33	15.02
Iterated RF ntree 1500	15.23	22.29	18.76
Iterated RF ntree 500	15.11	22.51	18.81
Iterated RF ntree 1000	15.39	22.26	18.82

Table 1.4: All setups MAQ

1.2.2 TQE - Total Quantile Error

Figure 1.5 shows the results using the TQE error measure for all different setups.

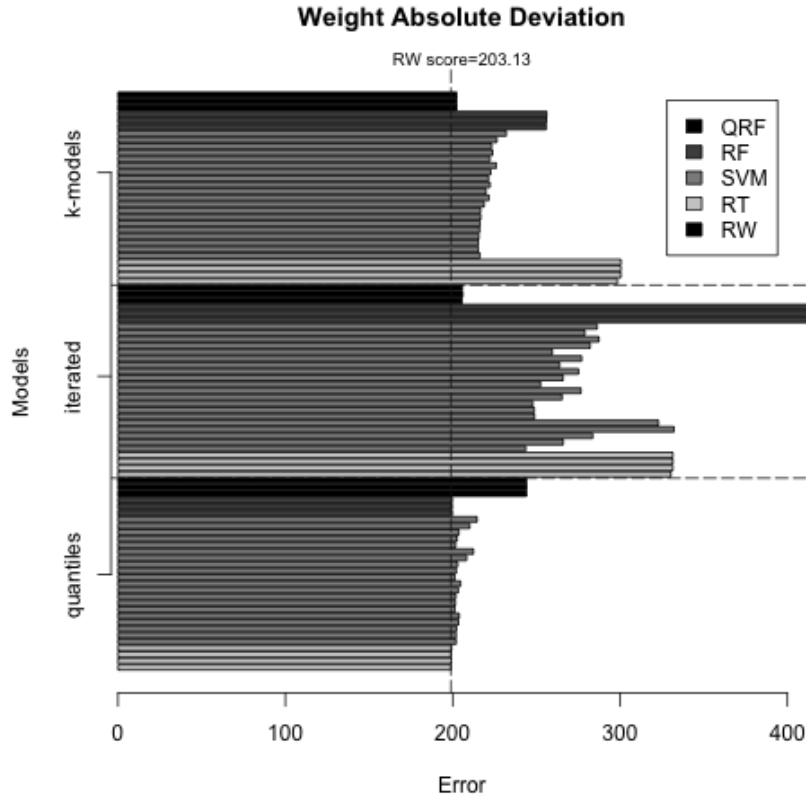


Figure 1.5: Iron

Table 1.5 shows all setups order by the TQE error.

	TQE.Q1	TQE.Q3	QTE
Quantile RT se 0	53.25	145.68	198.92
Quantile RT se 1	53.33	145.68	199.01
Quantile RT se 0.5	53.31	145.89	199.19
Quantile RT se 1.5	53.38	145.93	199.3
Quantile RF ntree 1000	53.43	146.3	199.72
Quantile RF ntree 1500	53.43	146.32	199.75
Quantile RF ntree 500	53.43	146.33	199.76

Quantile SVM cost 1 gamma 0.05	53.98	147.35	201.33
Quantile SVM cost 1 gamma 0.01	53.96	147.4	201.36
Quantile SVM cost 5 gamma 0.01	53.81	147.77	201.58
Quantile SVM cost 1 gamma 0.1	54.02	147.7	201.71
Quantile SVM cost 10 gamma 0.01	53.75	148.07	201.82
Quantile SVM cost 5 gamma 0.001	53.83	148.18	202.01
Quantile SVM cost 1 gamma 0.001	54.39	147.63	202.02
Quantile SVM cost 5 gamma 0.05	53.79	148.31	202.1
Quantile SVM cost 10 gamma 0.001	53.73	148.49	202.22
Nmodels QRF ntree 500	53.2	149.17	202.38
Nmodels QRF ntree 1000	53.2	149.21	202.41
Nmodels QRF ntree 1500	53.2	149.24	202.44
Quantile SVM cost 5 gamma 0.1	53.93	148.69	202.62
Quantile SVM cost 10 gamma 0.05	53.78	149.15	202.93
RW	55.88	147.25	203.13
Quantile SVM cost 50 gamma 0.01	53.72	149.57	203.28
Quantile SVM cost 50 gamma 0.001	53.67	149.76	203.43
Quantile SVM cost 10 gamma 0.1	53.94	149.74	203.68
Quantile SVM cost 100 gamma 0.001	53.67	150.18	203.85
Quantile SVM cost 100 gamma 0.01	53.71	150.94	204.65
Iterated QRF ntree 500	53.16	152.51	205.67
Iterated QRF ntree 1500	53.16	152.65	205.81
Iterated QRF ntree 1000	53.16	152.84	206
Quantile SVM cost 50 gamma 0.05	53.77	154.55	208.32
Quantile SVM cost 50 gamma 0.1	53.99	156.18	210.18
Quantile SVM cost 100 gamma 0.05	53.84	158.56	212.4
Quantile SVM cost 100 gamma 0.1	54.09	160.47	214.56
Nmodels SVM cost 5 gamma 0.001	67.77	147.57	215.34
Nmodels SVM cost 10 gamma 0.001	67.61	147.74	215.35
Nmodels SVM cost 50 gamma 0.001	67.82	147.83	215.65
Nmodels SVM cost 100 gamma 0.001	68.29	147.78	216.07
Nmodels SVM cost 1 gamma 0.001	68.93	147.28	216.21
Nmodels SVM cost 1 gamma 0.01	68.64	147.64	216.29
Nmodels SVM cost 10 gamma 0.01	68.63	148.03	216.66
Nmodels SVM cost 5 gamma 0.01	68.63	148.14	216.77
Nmodels SVM cost 50 gamma 0.01	69.53	149.29	218.82
Nmodels SVM cost 1 gamma 0.05	71.36	148.53	219.9
Nmodels SVM cost 10 gamma 0.05	71.74	149.65	221.38
Nmodels SVM cost 100 gamma 0.01	70.67	150.95	221.62
Nmodels SVM cost 1 gamma 0.1	73.35	148.87	222.22
Nmodels SVM cost 5 gamma 0.05	72.71	149.59	222.29

Nmodels SVM cost 50 gamma 0.05	71.05	151.65	222.7
Nmodels SVM cost 10 gamma 0.1	72.34	150.98	223.32
Nmodels SVM cost 5 gamma 0.1	73.53	150.25	223.78
Nmodels SVM cost 100 gamma 0.05	72.03	154.02	226.05
Nmodels SVM cost 50 gamma 0.1	72.79	153.59	226.38
Nmodels SVM cost 100 gamma 0.1	75.41	156.56	231.97
Iterated SVM cost 1 gamma 0.001	92.86	150.82	243.68
Quantile QRF ntree 1500	92.93	151.14	244.07
Quantile QRF ntree 500	93.05	151.07	244.12
Quantile QRF ntree 1000	93.01	151.17	244.18
Iterated SVM cost 10 gamma 0.01	96.22	151.65	247.87
Iterated SVM cost 5 gamma 0.01	96.82	151.9	248.72
Iterated SVM cost 1 gamma 0.01	97.09	151.76	248.86
Iterated SVM cost 1 gamma 0.05	100.45	152.01	252.46
Nmodels RF ntree 500	99.86	155.93	255.79
Nmodels RF ntree 1000	100.28	155.85	256.13
Nmodels RF ntree 1500	100.13	156.02	256.14
Iterated SVM cost 1 gamma 0.1	105.29	154.24	259.53
Iterated SVM cost 50 gamma 0.05	89.07	174.84	263.9
Iterated SVM cost 50 gamma 0.01	95.29	170.06	265.36
Iterated SVM cost 5 gamma 0.05	102.25	163.71	265.96
Iterated SVM cost 5 gamma 0.001	101.83	164.2	266.03
Iterated SVM cost 10 gamma 0.05	105.58	169.63	275.21
Iterated SVM cost 100 gamma 0.01	95.31	181.31	276.62
Iterated SVM cost 100 gamma 0.05	89.49	187.56	277.05
Iterated SVM cost 50 gamma 0.1	96.92	182.07	278.99
Iterated SVM cost 5 gamma 0.1	115.58	166.56	282.14
Iterated SVM cost 10 gamma 0.001	107.24	176.38	283.63
Iterated SVM cost 100 gamma 0.1	98.3	188.04	286.34
Iterated SVM cost 10 gamma 0.1	115.93	171.4	287.33
Nmodels RT se 0	140.72	157.69	298.41
Nmodels RT se 0.5	142.61	157.92	300.53
Nmodels RT se 1.5	142.65	157.92	300.57
Nmodels RT se 1	142.66	157.92	300.58
Iterated SVM cost 100 gamma 0.001	117.55	205.42	322.97
Iterated RT se 0	177.56	152.8	330.36
Iterated RT se 0.5	178.67	152.85	331.52
Iterated RT se 1	178.67	152.85	331.52
Iterated RT se 1.5	178.67	152.85	331.52
Iterated SVM cost 50 gamma 0.001	119.16	213.06	332.23
Iterated RF ntree 500	208.49	204.59	413.07

Iterated RF ntree 1500	209.61	203.66	413.27
Iterated RF ntree 1000	211.94	203.15	415.09

Table 1.5: All setups TQE

1.2.3 Utility

Figure 1.6 shows the results using the Utility error measure (larger is better) for all different setups.

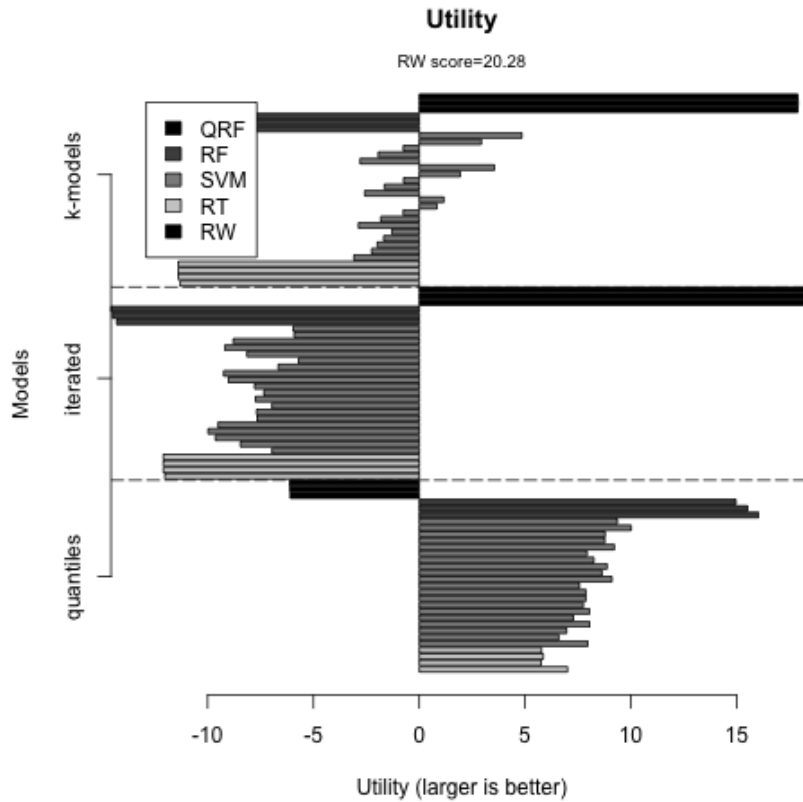


Figure 1.6: Iron

Table 1.6 shows all setups order by the Utility.

	utility
RW	20.28
Iterated QRF ntree 500	18.59
Iterated QRF ntree 1500	18.54
Iterated QRF ntree 1000	18.43
Nmodels QRF ntree 1000	17.9
Nmodels QRF ntree 500	17.89
Nmodels QRF ntree 1500	17.89

Quantile RF ntree 500	16.03
Quantile RF ntree 1000	15.51
Quantile RF ntree 1500	14.96
Quantile SVM cost 50 gamma 0.1	10.01
Quantile SVM cost 100 gamma 0.1	9.36
Quantile SVM cost 1 gamma 0.1	9.22
Quantile SVM cost 1 gamma 0.05	9.11
Quantile SVM cost 10 gamma 0.05	8.87
Quantile SVM cost 10 gamma 0.1	8.79
Quantile SVM cost 5 gamma 0.1	8.77
Quantile SVM cost 5 gamma 0.05	8.63
Quantile SVM cost 50 gamma 0.05	8.25
Quantile SVM cost 50 gamma 0.001	8.05
Quantile SVM cost 1 gamma 0.01	8.04
Quantile SVM cost 1 gamma 0.001	7.96
Quantile SVM cost 100 gamma 0.05	7.93
Quantile SVM cost 50 gamma 0.01	7.87
Quantile SVM cost 10 gamma 0.01	7.87
Quantile SVM cost 5 gamma 0.01	7.76
Quantile SVM cost 100 gamma 0.01	7.57
Quantile SVM cost 100 gamma 0.001	7.28
Quantile RT se 0	7.01
Quantile SVM cost 10 gamma 0.001	6.96
Quantile SVM cost 5 gamma 0.001	6.59
Quantile RT se 1	5.86
Quantile RT se 1.5	5.78
Quantile RT se 0.5	5.76
Nmodels SVM cost 100 gamma 0.1	4.85
Nmodels SVM cost 100 gamma 0.05	3.55
Nmodels SVM cost 50 gamma 0.1	2.93
Nmodels SVM cost 50 gamma 0.05	1.94
Nmodels SVM cost 100 gamma 0.01	1.16
Nmodels SVM cost 50 gamma 0.01	0.83
Nmodels SVM cost 10 gamma 0.05	-0.74
Nmodels SVM cost 10 gamma 0.1	-0.75
Nmodels SVM cost 10 gamma 0.01	-0.76
Nmodels SVM cost 100 gamma 0.001	-1.29
Nmodels SVM cost 5 gamma 0.05	-1.65
Nmodels SVM cost 50 gamma 0.001	-1.68
Nmodels SVM cost 5 gamma 0.01	-1.82
Nmodels SVM cost 5 gamma 0.1	-1.94

Nmodels SVM cost 10 gamma 0.001	-1.98
Nmodels SVM cost 5 gamma 0.001	-2.25
Nmodels SVM cost 1 gamma 0.05	-2.58
Nmodels SVM cost 1 gamma 0.1	-2.8
Nmodels SVM cost 1 gamma 0.01	-2.87
Nmodels SVM cost 1 gamma 0.001	-3.09
Iterated SVM cost 100 gamma 0.05	-5.7
Iterated SVM cost 50 gamma 0.1	-5.91
Iterated SVM cost 100 gamma 0.1	-5.96
Quantile QRF ntree 500	-6.1
Quantile QRF ntree 1000	-6.11
Quantile QRF ntree 1500	-6.12
Iterated SVM cost 50 gamma 0.05	-6.66
Iterated SVM cost 1 gamma 0.001	-6.96
Iterated SVM cost 10 gamma 0.01	-6.96
Iterated SVM cost 100 gamma 0.01	-7.34
Iterated SVM cost 1 gamma 0.01	-7.66
Nmodels RF ntree 1000	-7.68
Iterated SVM cost 5 gamma 0.01	-7.69
Nmodels RF ntree 500	-7.7
Nmodels RF ntree 1500	-7.7
Iterated SVM cost 50 gamma 0.01	-7.74
Iterated SVM cost 1 gamma 0.05	-7.78
Iterated SVM cost 1 gamma 0.1	-8.14
Iterated SVM cost 5 gamma 0.001	-8.45
Iterated SVM cost 10 gamma 0.1	-8.79
Iterated SVM cost 5 gamma 0.05	-9.01
Iterated SVM cost 5 gamma 0.1	-9.18
Iterated SVM cost 10 gamma 0.05	-9.24
Iterated SVM cost 100 gamma 0.001	-9.51
Iterated SVM cost 10 gamma 0.001	-9.64
Iterated SVM cost 50 gamma 0.001	-9.98
Nmodels RT se 0	-11.3
Nmodels RT se 0.5	-11.39
Nmodels RT se 1	-11.39
Nmodels RT se 1.5	-11.39
Iterated RT se 0	-12.02
Iterated RT se 0.5	-12.09
Iterated RT se 1	-12.09
Iterated RT se 1.5	-12.09
Iterated RF ntree 500	-14.3

Iterated RF ntree 1000	-14.5
Iterated RF ntree 1500	-14.57

Table 1.6: All setups Utility

1.3 pH

1.3.1 MAQ - Mean Absolute Quantile Deviation

Figure 1.7 shows the results using the MAQ error measure for all different setups.

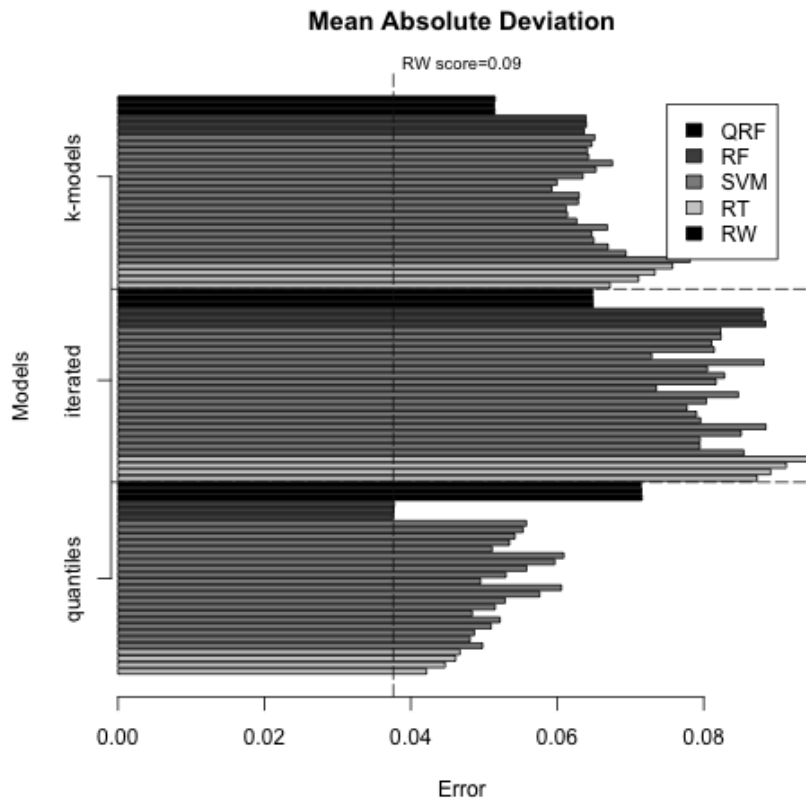


Figure 1.7: pH

Table 1.7 shows all setups order by the MAQ error.

	MAQ.Q1	MAQ.Q3	MAQ
Quantile RF ntree 500	0.04	0.04	0.04
Quantile RF ntree 1000	0.04	0.04	0.04
Quantile RF ntree 1500	0.04	0.04	0.04
Quantile RT se 0	0.04	0.04	0.04
Quantile RT se 0.5	0.05	0.04	0.04

Quantile RT se 1	0.05	0.04	0.05
Quantile RT se 1.5	0.05	0.04	0.05
Quantile SVM cost 5 gamma 0.001	0.05	0.04	0.05
Quantile SVM cost 1 gamma 0.01	0.05	0.04	0.05
Quantile SVM cost 10 gamma 0.001	0.05	0.04	0.05
Quantile SVM cost 1 gamma 0.05	0.05	0.05	0.05
Quantile SVM cost 1 gamma 0.001	0.05	0.05	0.05
Quantile SVM cost 50 gamma 0.001	0.05	0.05	0.05
Quantile SVM cost 1 gamma 0.1	0.05	0.05	0.05
Nmodels QRF ntree 1000	0.06	0.04	0.05
Nmodels QRF ntree 500	0.06	0.04	0.05
Nmodels QRF ntree 1500	0.06	0.04	0.05
Quantile SVM cost 5 gamma 0.01	0.06	0.05	0.05
Quantile SVM cost 100 gamma 0.001	0.06	0.05	0.05
Quantile SVM cost 10 gamma 0.01	0.06	0.05	0.05
Quantile SVM cost 5 gamma 0.05	0.05	0.05	0.05
Quantile SVM cost 5 gamma 0.1	0.06	0.05	0.05
Quantile SVM cost 10 gamma 0.1	0.06	0.05	0.05
Quantile SVM cost 50 gamma 0.1	0.06	0.05	0.06
Quantile SVM cost 100 gamma 0.1	0.06	0.05	0.06
Quantile SVM cost 10 gamma 0.05	0.06	0.05	0.06
Quantile SVM cost 50 gamma 0.01	0.06	0.05	0.06
Nmodels SVM cost 5 gamma 0.05	0.06	0.06	0.06
Quantile SVM cost 50 gamma 0.05	0.06	0.06	0.06
Nmodels SVM cost 10 gamma 0.05	0.07	0.05	0.06
Quantile SVM cost 100 gamma 0.01	0.06	0.06	0.06
Quantile SVM cost 100 gamma 0.05	0.06	0.06	0.06
Nmodels SVM cost 50 gamma 0.01	0.07	0.06	0.06
Nmodels SVM cost 10 gamma 0.01	0.07	0.06	0.06
Nmodels SVM cost 5 gamma 0.01	0.07	0.06	0.06
Nmodels SVM cost 100 gamma 0.01	0.07	0.06	0.06
Nmodels SVM cost 1 gamma 0.05	0.07	0.06	0.06
Nmodels SVM cost 50 gamma 0.05	0.07	0.06	0.06
Nmodels RF ntree 500	0.07	0.06	0.06
Nmodels RF ntree 1500	0.07	0.06	0.06
Nmodels RF ntree 1000	0.07	0.06	0.06
Nmodels SVM cost 10 gamma 0.1	0.07	0.06	0.06
Nmodels SVM cost 5 gamma 0.1	0.07	0.06	0.06
Nmodels SVM cost 100 gamma 0.001	0.07	0.06	0.06
Nmodels SVM cost 50 gamma 0.1	0.07	0.06	0.06
Iterated QRF ntree 1500	0.08	0.05	0.06

Iterated QRF ntree 1000	0.08	0.05	0.06
Iterated QRF ntree 500	0.08	0.05	0.06
Nmodels SVM cost 50 gamma 0.001	0.07	0.06	0.06
Nmodels SVM cost 100 gamma 0.1	0.07	0.06	0.07
Nmodels SVM cost 100 gamma 0.05	0.07	0.06	0.07
Nmodels SVM cost 1 gamma 0.01	0.07	0.06	0.07
Nmodels SVM cost 10 gamma 0.001	0.07	0.06	0.07
Nmodels RT se 0	0.08	0.06	0.07
Nmodels SVM cost 1 gamma 0.1	0.07	0.06	0.07
Nmodels SVM cost 5 gamma 0.001	0.07	0.06	0.07
Nmodels RT se 0.5	0.08	0.06	0.07
Quantile QRF ntree 1500	0.08	0.07	0.07
Quantile QRF ntree 1000	0.08	0.07	0.07
Quantile QRF ntree 500	0.08	0.07	0.07
Iterated SVM cost 1 gamma 0.1	0.08	0.07	0.07
Nmodels RT se 1	0.08	0.06	0.07
Iterated SVM cost 1 gamma 0.05	0.08	0.07	0.07
Nmodels RT se 1.5	0.08	0.07	0.08
Iterated SVM cost 10 gamma 0.01	0.09	0.07	0.08
Nmodels SVM cost 1 gamma 0.001	0.09	0.07	0.08
Iterated SVM cost 5 gamma 0.01	0.09	0.07	0.08
Iterated SVM cost 5 gamma 0.001	0.09	0.07	0.08
Iterated SVM cost 10 gamma 0.001	0.09	0.07	0.08
Iterated SVM cost 1 gamma 0.01	0.09	0.07	0.08
Iterated SVM cost 50 gamma 0.01	0.09	0.07	0.08
Iterated SVM cost 50 gamma 0.05	0.09	0.07	0.08
Iterated SVM cost 10 gamma 0.1	0.09	0.07	0.08
Iterated SVM cost 5 gamma 0.1	0.09	0.07	0.08
Iterated SVM cost 5 gamma 0.05	0.09	0.07	0.08
Iterated SVM cost 100 gamma 0.1	0.09	0.07	0.08
Iterated SVM cost 50 gamma 0.1	0.09	0.07	0.08
Iterated SVM cost 10 gamma 0.05	0.09	0.07	0.08
Iterated SVM cost 100 gamma 0.01	0.1	0.07	0.08
Iterated SVM cost 50 gamma 0.001	0.1	0.07	0.09
Iterated SVM cost 1 gamma 0.001	0.09	0.08	0.09
Iterated RT se 0	0.09	0.08	0.09
Iterated RF ntree 1000	0.09	0.08	0.09
Iterated RF ntree 1500	0.09	0.08	0.09
Iterated SVM cost 100 gamma 0.05	0.1	0.08	0.09
Iterated RF ntree 500	0.09	0.08	0.09
Iterated SVM cost 100 gamma 0.001	0.11	0.07	0.09

Iterated RT se 0.5	0.09	0.08	0.09
Iterated RT se 1	0.09	0.09	0.09
RW	0.11	0.07	0.09
Iterated RT se 1.5	0.1	0.09	0.09

Table 1.7: All setups MAQ

1.3.2 TQE - Total Quantile Error

Figure 1.8 shows the results using the TQE error measure for all different setups.

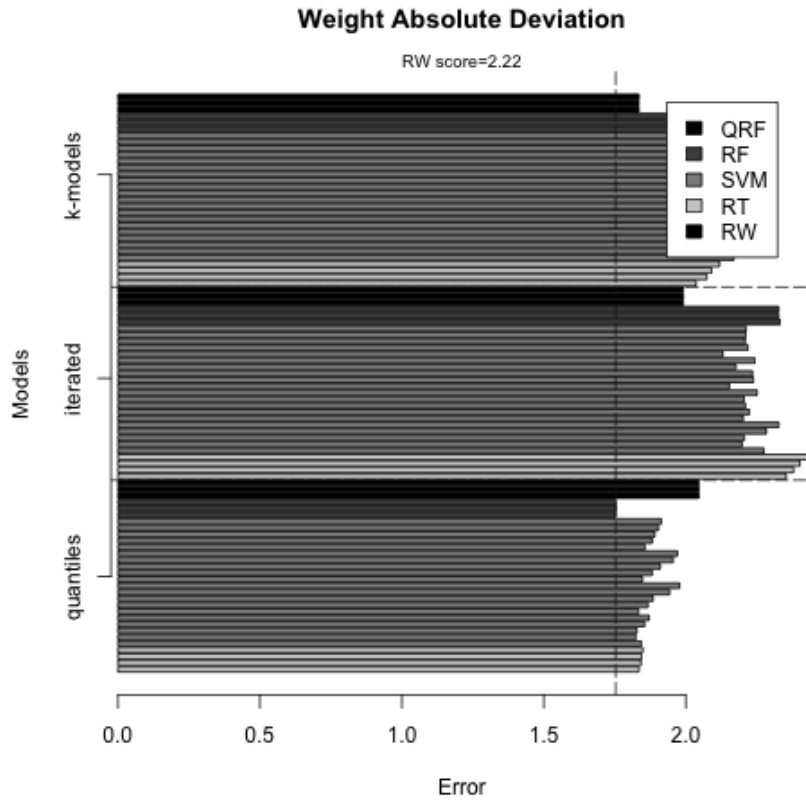


Figure 1.8: pH

Table 1.8 shows all setups order by the TQE error.

	TQE.Q1	TQE.Q3	QTE
Quantile RF ntree 500	0.91	0.84	1.75
Quantile RF ntree 1000	0.91	0.84	1.75
Quantile RF ntree 1500	0.91	0.84	1.75
Quantile SVM cost 5 gamma 0.001	0.96	0.87	1.82
Quantile SVM cost 10 gamma 0.001	0.96	0.87	1.83
Quantile SVM cost 1 gamma 0.01	0.96	0.87	1.83
Nmodels QRF ntree 1000	0.97	0.86	1.83

Nmodels QRF ntree 500	0.97	0.86	1.83
Quantile RT se 0	0.95	0.89	1.84
Nmodels QRF ntree 1500	0.97	0.86	1.84
Quantile RT se 0.5	0.96	0.88	1.84
Quantile SVM cost 1 gamma 0.001	0.97	0.87	1.84
Quantile RT se 1	0.96	0.88	1.84
Quantile SVM cost 1 gamma 0.05	0.96	0.88	1.85
Quantile RT se 1.5	0.97	0.88	1.85
Quantile SVM cost 50 gamma 0.001	0.97	0.88	1.85
Quantile SVM cost 1 gamma 0.1	0.97	0.89	1.86
Quantile SVM cost 5 gamma 0.01	0.98	0.89	1.87
Quantile SVM cost 100 gamma 0.001	0.98	0.89	1.87
Quantile SVM cost 5 gamma 0.05	0.97	0.91	1.88
Quantile SVM cost 5 gamma 0.1	0.98	0.9	1.88
Quantile SVM cost 10 gamma 0.01	0.98	0.9	1.88
Quantile SVM cost 10 gamma 0.1	0.98	0.91	1.89
Quantile SVM cost 50 gamma 0.1	0.99	0.92	1.9
Quantile SVM cost 10 gamma 0.05	0.98	0.93	1.91
Quantile SVM cost 100 gamma 0.1	0.99	0.93	1.91
Quantile SVM cost 50 gamma 0.01	1	0.94	1.94
Nmodels SVM cost 10 gamma 0.05	1.01	0.94	1.95
Nmodels SVM cost 50 gamma 0.05	1.02	0.93	1.95
Nmodels SVM cost 5 gamma 0.05	1.01	0.94	1.95
Quantile SVM cost 50 gamma 0.05	1.01	0.95	1.96
Nmodels SVM cost 100 gamma 0.05	1.03	0.93	1.96
Quantile SVM cost 100 gamma 0.05	1.01	0.96	1.97
Nmodels SVM cost 50 gamma 0.1	1.04	0.93	1.97
Nmodels SVM cost 50 gamma 0.01	1.03	0.94	1.97
Nmodels SVM cost 10 gamma 0.1	1.03	0.94	1.97
Nmodels SVM cost 100 gamma 0.1	1.04	0.94	1.98
Quantile SVM cost 100 gamma 0.01	1.02	0.96	1.98
Nmodels SVM cost 100 gamma 0.01	1.04	0.94	1.98
Nmodels SVM cost 10 gamma 0.01	1.03	0.95	1.98
Nmodels SVM cost 5 gamma 0.1	1.03	0.95	1.98
Iterated QRF ntree 1500	1.08	0.91	1.99
Iterated QRF ntree 500	1.08	0.91	1.99
Iterated QRF ntree 1000	1.08	0.91	1.99
Nmodels SVM cost 1 gamma 0.05	1.03	0.97	2
Nmodels SVM cost 5 gamma 0.01	1.04	0.96	2
Nmodels RF ntree 500	1.04	0.97	2.01
Nmodels RF ntree 1500	1.04	0.97	2.01

Nmodels RF ntree 1000	1.04	0.97	2.01
Nmodels SVM cost 100 gamma 0.001	1.06	0.96	2.02
Nmodels SVM cost 50 gamma 0.001	1.06	0.97	2.02
Nmodels SVM cost 1 gamma 0.1	1.05	0.99	2.03
Nmodels RT se 0	1.09	0.95	2.04
Nmodels SVM cost 1 gamma 0.01	1.06	0.98	2.04
Nmodels SVM cost 10 gamma 0.001	1.06	0.98	2.04
Quantile QRF ntree 1500	1.06	0.98	2.05
Quantile QRF ntree 1000	1.06	0.98	2.05
Quantile QRF ntree 500	1.06	0.98	2.05
Nmodels SVM cost 5 gamma 0.001	1.08	0.99	2.07
Nmodels RT se 0.5	1.1	0.97	2.07
Nmodels RT se 1	1.1	0.99	2.09
Nmodels RT se 1.5	1.11	1.01	2.12
Iterated SVM cost 1 gamma 0.1	1.11	1.02	2.13
Iterated SVM cost 1 gamma 0.05	1.1	1.05	2.15
Nmodels SVM cost 1 gamma 0.001	1.13	1.04	2.17
Iterated SVM cost 50 gamma 0.05	1.17	1.01	2.18
Iterated SVM cost 5 gamma 0.001	1.17	1.02	2.2
Iterated SVM cost 1 gamma 0.01	1.19	1.02	2.2
Iterated SVM cost 50 gamma 0.01	1.17	1.04	2.21
Iterated SVM cost 10 gamma 0.001	1.19	1.01	2.21
Iterated SVM cost 10 gamma 0.1	1.21	1	2.21
Iterated SVM cost 10 gamma 0.01	1.17	1.04	2.21
Iterated SVM cost 50 gamma 0.1	1.19	1.02	2.21
Iterated SVM cost 100 gamma 0.1	1.2	1.01	2.21
Iterated SVM cost 5 gamma 0.1	1.19	1.03	2.22
RW	1.19	1.03	2.22
Iterated SVM cost 5 gamma 0.01	1.18	1.04	2.22
Iterated SVM cost 10 gamma 0.05	1.2	1.04	2.23
Iterated SVM cost 5 gamma 0.05	1.19	1.04	2.24
Iterated SVM cost 100 gamma 0.05	1.2	1.04	2.24
Iterated SVM cost 100 gamma 0.01	1.19	1.06	2.25
Iterated SVM cost 1 gamma 0.001	1.16	1.11	2.28
Iterated SVM cost 50 gamma 0.001	1.26	1.02	2.28
Iterated RF ntree 1000	1.19	1.14	2.33
Iterated RF ntree 1500	1.19	1.14	2.33
Iterated SVM cost 100 gamma 0.001	1.29	1.04	2.33
Iterated RF ntree 500	1.19	1.14	2.33
Iterated RT se 0	1.24	1.11	2.35
Iterated RT se 0.5	1.25	1.13	2.38

Iterated RT se 1	1.24	1.16	2.4
Iterated RT se 1.5	1.25	1.2	2.45

Table 1.8: All setups TQE

1.3.3 Utility

Figure 1.9 shows the results using the Utility error measure (larger is better) for all different setups.

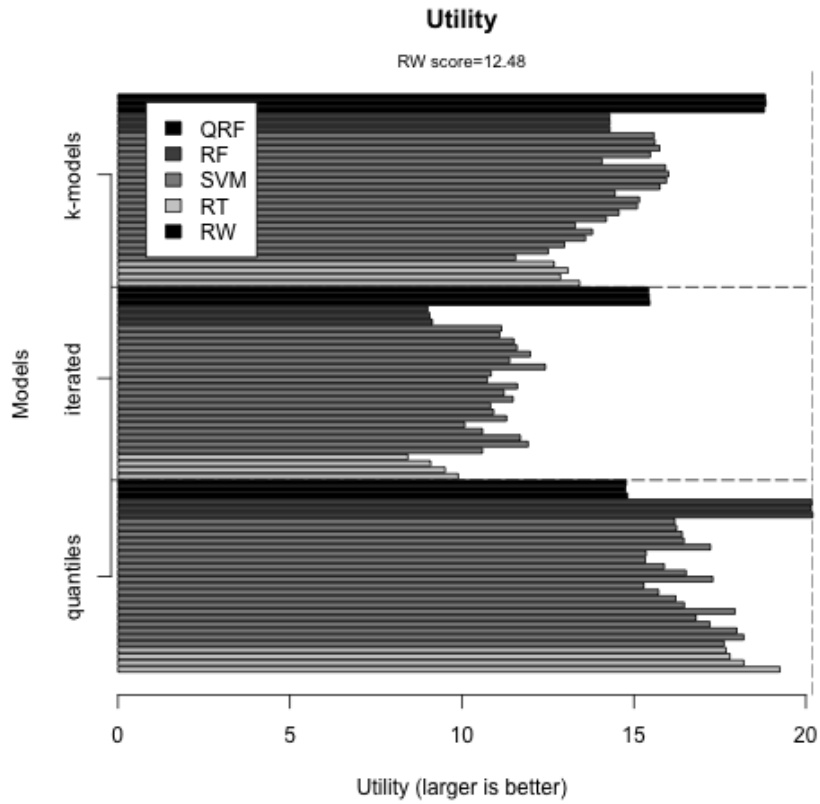


Figure 1.9: pH

Table 1.9 shows all setups order by the Utility.

	utility
Quantile RF ntree 500	20.2
Quantile RF ntree 1500	20.18
Quantile RF ntree 1000	20.13
Quantile RT se 0	19.24
Nmodels QRF ntree 1000	18.84
Nmodels QRF ntree 1500	18.82
Nmodels QRF ntree 500	18.8

Quantile RT se 0.5	18.19
Quantile SVM cost 5 gamma 0.001	18.19
Quantile SVM cost 10 gamma 0.001	17.99
Quantile SVM cost 1 gamma 0.01	17.94
Quantile RT se 1	17.79
Quantile RT se 1.5	17.68
Quantile SVM cost 1 gamma 0.001	17.62
Quantile SVM cost 1 gamma 0.05	17.29
Quantile SVM cost 1 gamma 0.1	17.23
Quantile SVM cost 50 gamma 0.001	17.21
Quantile SVM cost 100 gamma 0.001	16.8
Quantile SVM cost 5 gamma 0.05	16.52
Quantile SVM cost 5 gamma 0.01	16.46
Quantile SVM cost 5 gamma 0.1	16.46
Quantile SVM cost 10 gamma 0.1	16.4
Quantile SVM cost 50 gamma 0.1	16.24
Quantile SVM cost 10 gamma 0.01	16.22
Quantile SVM cost 100 gamma 0.1	16.19
Nmodels SVM cost 50 gamma 0.05	16.01
Nmodels SVM cost 10 gamma 0.05	15.94
Nmodels SVM cost 100 gamma 0.05	15.92
Quantile SVM cost 10 gamma 0.05	15.88
Nmodels SVM cost 5 gamma 0.05	15.75
Nmodels SVM cost 10 gamma 0.1	15.75
Quantile SVM cost 50 gamma 0.01	15.72
Nmodels SVM cost 50 gamma 0.1	15.61
Nmodels SVM cost 100 gamma 0.1	15.58
Nmodels SVM cost 5 gamma 0.1	15.48
Iterated QRF ntree 500	15.46
Iterated QRF ntree 1000	15.44
Iterated QRF ntree 1500	15.43
Quantile SVM cost 100 gamma 0.05	15.35
Quantile SVM cost 50 gamma 0.05	15.33
Quantile SVM cost 100 gamma 0.01	15.29
Nmodels SVM cost 100 gamma 0.01	15.16
Nmodels SVM cost 50 gamma 0.01	15.1
Quantile QRF ntree 500	14.81
Quantile QRF ntree 1500	14.77
Quantile QRF ntree 1000	14.76
Nmodels SVM cost 10 gamma 0.01	14.56
Nmodels SVM cost 1 gamma 0.05	14.45

Nmodels RF ntree 500	14.3
Nmodels RF ntree 1000	14.3
Nmodels RF ntree 1500	14.29
Nmodels SVM cost 5 gamma 0.01	14.2
Nmodels SVM cost 1 gamma 0.1	14.07
Nmodels SVM cost 100 gamma 0.001	13.79
Nmodels SVM cost 50 gamma 0.001	13.59
Nmodels RT se 0	13.42
Nmodels SVM cost 1 gamma 0.01	13.29
Nmodels RT se 1	13.08
Nmodels SVM cost 10 gamma 0.001	12.98
Nmodels RT se 0.5	12.86
Nmodels RT se 1.5	12.68
Nmodels SVM cost 5 gamma 0.001	12.51
RW	12.48
Iterated SVM cost 50 gamma 0.05	12.43
Iterated SVM cost 1 gamma 0.1	11.99
Iterated SVM cost 5 gamma 0.001	11.92
Iterated SVM cost 10 gamma 0.001	11.7
Iterated SVM cost 1 gamma 0.05	11.61
Iterated SVM cost 5 gamma 0.1	11.6
Nmodels SVM cost 1 gamma 0.001	11.56
Iterated SVM cost 10 gamma 0.1	11.51
Iterated SVM cost 50 gamma 0.01	11.49
Iterated SVM cost 100 gamma 0.05	11.39
Iterated SVM cost 1 gamma 0.01	11.3
Iterated SVM cost 100 gamma 0.01	11.22
Iterated SVM cost 100 gamma 0.1	11.15
Iterated SVM cost 50 gamma 0.1	11.1
Iterated SVM cost 5 gamma 0.01	10.92
Iterated SVM cost 10 gamma 0.05	10.85
Iterated SVM cost 10 gamma 0.01	10.83
Iterated SVM cost 5 gamma 0.05	10.74
Iterated SVM cost 50 gamma 0.001	10.6
Iterated SVM cost 1 gamma 0.001	10.6
Iterated SVM cost 100 gamma 0.001	10.08
Iterated RT se 0	9.89
Iterated RT se 0.5	9.51
Iterated RF ntree 500	9.14
Iterated RT se 1	9.09
Iterated RF ntree 1000	9.07

Iterated RF ntree 1500	9
Iterated RT se 1.5	8.43

Table 1.9: All setups Utility

1.4 Turbidity

1.4.1 MAQ - Mean Absolute Quantile Deviation

Figure 1.10 shows the results using the MAQ error measure for all different setups.

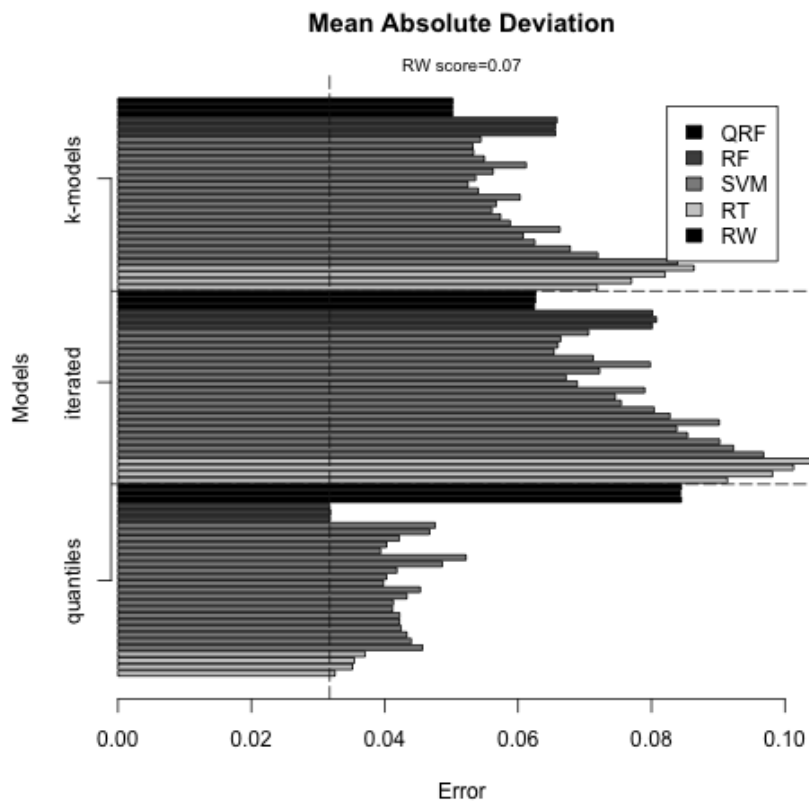


Figure 1.10: Turbidity

Table 1.10 shows all setups order by the MAQ error.

	MAQ.Q1	MAQ.Q3	MAQ
Quantile RF ntree 1500	0.03	0.04	0.03
Quantile RF ntree 500	0.03	0.04	0.03
Quantile RF ntree 1000	0.03	0.04	0.03
Quantile RT se 0	0.03	0.04	0.03
Quantile RT se 0.5	0.03	0.04	0.04

Quantile RT se 1	0.03	0.04	0.04
Quantile RT se 1.5	0.03	0.04	0.04
Quantile SVM cost 1 gamma 0.1	0.03	0.05	0.04
Quantile SVM cost 1 gamma 0.05	0.03	0.05	0.04
Quantile SVM cost 5 gamma 0.05	0.03	0.05	0.04
Quantile SVM cost 5 gamma 0.1	0.04	0.05	0.04
Quantile SVM cost 5 gamma 0.01	0.03	0.05	0.04
Quantile SVM cost 10 gamma 0.01	0.03	0.05	0.04
Quantile SVM cost 10 gamma 0.05	0.04	0.05	0.04
Quantile SVM cost 10 gamma 0.1	0.04	0.05	0.04
Quantile SVM cost 100 gamma 0.001	0.03	0.05	0.04
Quantile SVM cost 1 gamma 0.01	0.04	0.05	0.04
Quantile SVM cost 50 gamma 0.001	0.03	0.05	0.04
Quantile SVM cost 10 gamma 0.001	0.04	0.05	0.04
Quantile SVM cost 50 gamma 0.01	0.04	0.05	0.04
Quantile SVM cost 5 gamma 0.001	0.04	0.05	0.04
Quantile SVM cost 100 gamma 0.01	0.04	0.05	0.05
Quantile SVM cost 1 gamma 0.001	0.04	0.05	0.05
Quantile SVM cost 50 gamma 0.1	0.04	0.05	0.05
Quantile SVM cost 100 gamma 0.1	0.04	0.05	0.05
Quantile SVM cost 50 gamma 0.05	0.04	0.05	0.05
Nmodels QRF ntree 500	0.05	0.05	0.05
Nmodels QRF ntree 1000	0.05	0.05	0.05
Nmodels QRF ntree 1500	0.05	0.05	0.05
Quantile SVM cost 100 gamma 0.05	0.05	0.06	0.05
Nmodels SVM cost 10 gamma 0.05	0.05	0.05	0.05
Nmodels SVM cost 50 gamma 0.1	0.05	0.06	0.05
Nmodels SVM cost 10 gamma 0.1	0.05	0.05	0.05
Nmodels SVM cost 50 gamma 0.05	0.05	0.06	0.05
Nmodels SVM cost 5 gamma 0.05	0.05	0.06	0.05
Nmodels SVM cost 100 gamma 0.1	0.05	0.06	0.05
Nmodels SVM cost 5 gamma 0.1	0.05	0.06	0.05
Nmodels SVM cost 50 gamma 0.01	0.05	0.06	0.06
Nmodels SVM cost 100 gamma 0.05	0.05	0.06	0.06
Nmodels SVM cost 100 gamma 0.01	0.05	0.06	0.06
Nmodels SVM cost 10 gamma 0.01	0.05	0.06	0.06
Nmodels SVM cost 5 gamma 0.01	0.05	0.06	0.06
Nmodels SVM cost 1 gamma 0.05	0.05	0.07	0.06
Nmodels SVM cost 100 gamma 0.001	0.05	0.07	0.06
Nmodels SVM cost 1 gamma 0.1	0.06	0.07	0.06
Iterated QRF ntree 500	0.06	0.07	0.06

Nmodels SVM cost 50 gamma 0.001	0.06	0.07	0.06
Iterated QRF ntree 1000	0.06	0.07	0.06
Iterated QRF ntree 1500	0.06	0.07	0.06
Iterated SVM cost 5 gamma 0.1	0.06	0.07	0.07
Nmodels RF ntree 1000	0.08	0.06	0.07
Nmodels RF ntree 500	0.08	0.06	0.07
Nmodels RF ntree 1500	0.08	0.06	0.07
Iterated SVM cost 10 gamma 0.1	0.06	0.07	0.07
Nmodels SVM cost 1 gamma 0.01	0.06	0.07	0.07
Iterated SVM cost 50 gamma 0.1	0.06	0.07	0.07
Iterated SVM cost 10 gamma 0.05	0.06	0.07	0.07
Nmodels SVM cost 10 gamma 0.001	0.06	0.07	0.07
Iterated SVM cost 5 gamma 0.05	0.06	0.08	0.07
Iterated SVM cost 100 gamma 0.1	0.07	0.07	0.07
Iterated SVM cost 1 gamma 0.1	0.06	0.08	0.07
Nmodels RT se 0	0.08	0.07	0.07
Nmodels SVM cost 5 gamma 0.001	0.07	0.07	0.07
RW	0.08	0.07	0.07
Iterated SVM cost 50 gamma 0.05	0.07	0.08	0.07
Iterated SVM cost 100 gamma 0.01	0.07	0.08	0.07
Iterated SVM cost 50 gamma 0.01	0.07	0.08	0.08
Nmodels RT se 0.5	0.09	0.07	0.08
Iterated SVM cost 1 gamma 0.05	0.07	0.09	0.08
Iterated SVM cost 100 gamma 0.05	0.07	0.09	0.08
Iterated RF ntree 500	0.09	0.07	0.08
Iterated RF ntree 1500	0.09	0.07	0.08
Iterated SVM cost 10 gamma 0.01	0.08	0.08	0.08
Iterated RF ntree 1000	0.09	0.07	0.08
Nmodels RT se 1	0.09	0.07	0.08
Iterated SVM cost 5 gamma 0.01	0.08	0.08	0.08
Iterated SVM cost 100 gamma 0.001	0.09	0.08	0.08
Nmodels SVM cost 1 gamma 0.001	0.09	0.08	0.08
Quantile QRF ntree 1000	0.1	0.07	0.08
Quantile QRF ntree 1500	0.1	0.07	0.08
Quantile QRF ntree 500	0.1	0.07	0.08
Iterated SVM cost 50 gamma 0.001	0.09	0.08	0.09
Nmodels RT se 1.5	0.1	0.08	0.09
Iterated SVM cost 1 gamma 0.01	0.1	0.08	0.09
Iterated SVM cost 10 gamma 0.001	0.1	0.08	0.09
Iterated RT se 0	0.09	0.09	0.09
Iterated SVM cost 5 gamma 0.001	0.1	0.08	0.09

Iterated SVM cost 1 gamma 0.001	0.1	0.09	0.1
Iterated RT se 0.5	0.11	0.09	0.1
Iterated RT se 1	0.11	0.09	0.1
Iterated RT se 1.5	0.12	0.09	0.1

Table 1.10: All setups MAQ

1.4.2 TQE - Total Quantile Error

Figure 1.11 shows the results using the TQE error measure for all different setups.

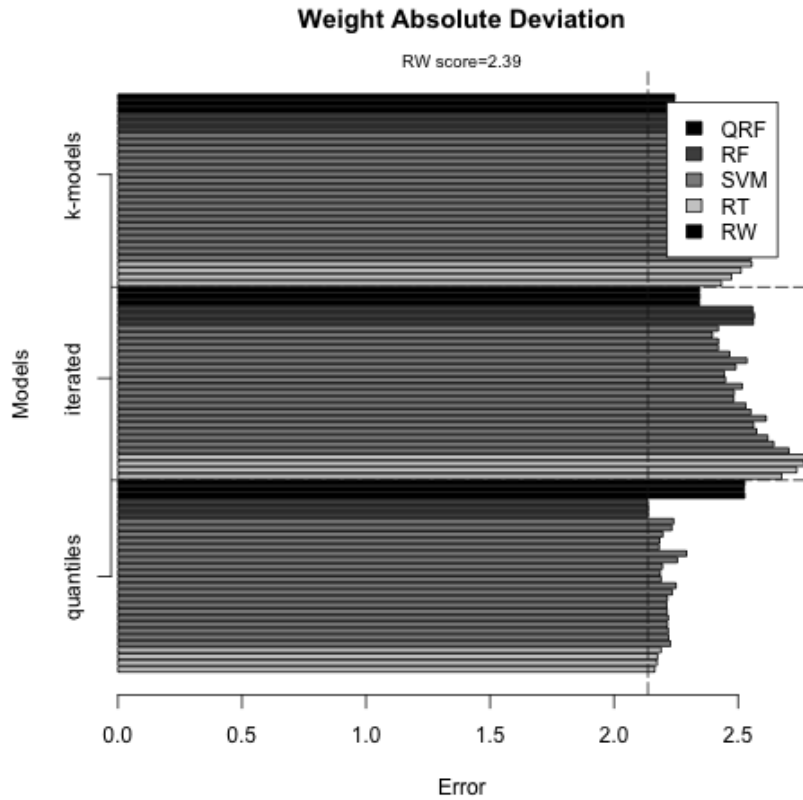


Figure 1.11: Turbidity

Table 1.11 shows all setups order by the TQE error.

	TQE.Q1	TQE.Q3	QTE
Quantile RF ntree 1500	0.98	1.16	2.14
Quantile RF ntree 500	0.98	1.16	2.14
Quantile RF ntree 1000	0.98	1.16	2.14
Quantile RT se 0	1	1.17	2.16
Quantile RT se 0.5	1	1.17	2.17
Quantile RT se 1	1.01	1.17	2.18
Quantile SVM cost 1 gamma 0.1	1	1.18	2.18

Quantile SVM cost 5 gamma 0.1	1	1.18	2.18
Quantile SVM cost 5 gamma 0.05	1	1.19	2.19
Quantile RT se 1.5	1.02	1.17	2.19
Quantile SVM cost 1 gamma 0.05	1	1.19	2.19
Quantile SVM cost 10 gamma 0.05	1.01	1.19	2.2
Quantile SVM cost 10 gamma 0.1	1.01	1.19	2.2
Quantile SVM cost 5 gamma 0.01	1.01	1.2	2.21
Quantile SVM cost 1 gamma 0.01	1.02	1.2	2.21
Quantile SVM cost 10 gamma 0.01	1.01	1.2	2.21
Quantile SVM cost 50 gamma 0.001	1.01	1.2	2.22
Quantile SVM cost 100 gamma 0.001	1.01	1.2	2.22
Quantile SVM cost 10 gamma 0.001	1.02	1.2	2.22
Quantile SVM cost 5 gamma 0.001	1.02	1.2	2.22
Quantile SVM cost 1 gamma 0.001	1.03	1.2	2.23
Quantile SVM cost 50 gamma 0.1	1.03	1.21	2.23
Quantile SVM cost 50 gamma 0.01	1.02	1.21	2.23
Quantile SVM cost 100 gamma 0.1	1.03	1.21	2.24
Nmodels QRF ntree 500	1.03	1.21	2.24
Nmodels QRF ntree 1000	1.03	1.21	2.24
Nmodels QRF ntree 1500	1.03	1.21	2.24
Quantile SVM cost 100 gamma 0.01	1.03	1.22	2.25
Quantile SVM cost 50 gamma 0.05	1.03	1.22	2.26
Nmodels SVM cost 50 gamma 0.05	1.05	1.22	2.27
Nmodels SVM cost 50 gamma 0.1	1.05	1.22	2.27
Nmodels SVM cost 10 gamma 0.05	1.05	1.22	2.27
Nmodels SVM cost 100 gamma 0.1	1.06	1.22	2.28
Nmodels SVM cost 10 gamma 0.1	1.06	1.22	2.28
Nmodels SVM cost 100 gamma 0.05	1.05	1.23	2.28
Nmodels SVM cost 5 gamma 0.05	1.05	1.23	2.29
Quantile SVM cost 100 gamma 0.05	1.05	1.24	2.29
Nmodels SVM cost 5 gamma 0.1	1.07	1.23	2.3
Nmodels SVM cost 50 gamma 0.01	1.06	1.24	2.3
Nmodels SVM cost 100 gamma 0.01	1.06	1.24	2.3
Nmodels SVM cost 10 gamma 0.01	1.06	1.26	2.32
Nmodels SVM cost 5 gamma 0.01	1.07	1.27	2.34
Iterated QRF ntree 500	1.07	1.28	2.34
Iterated QRF ntree 1500	1.07	1.28	2.35
Iterated QRF ntree 1000	1.07	1.28	2.35
Nmodels SVM cost 1 gamma 0.05	1.06	1.28	2.35
Nmodels SVM cost 100 gamma 0.001	1.07	1.28	2.35
Nmodels SVM cost 1 gamma 0.1	1.07	1.28	2.35

Nmodels SVM cost 50 gamma 0.001	1.08	1.29	2.36
RW	1.14	1.25	2.39
Nmodels RF ntree 500	1.18	1.22	2.39
Nmodels RF ntree 1000	1.18	1.22	2.39
Nmodels RF ntree 1500	1.18	1.22	2.39
Iterated SVM cost 50 gamma 0.1	1.12	1.27	2.4
Nmodels SVM cost 1 gamma 0.01	1.09	1.31	2.4
Nmodels SVM cost 10 gamma 0.001	1.1	1.31	2.41
Iterated SVM cost 5 gamma 0.1	1.07	1.35	2.42
Iterated SVM cost 100 gamma 0.1	1.14	1.28	2.42
Iterated SVM cost 10 gamma 0.1	1.09	1.33	2.42
Nmodels RT se 0	1.16	1.28	2.43
Nmodels SVM cost 5 gamma 0.001	1.13	1.32	2.44
Iterated SVM cost 10 gamma 0.05	1.08	1.37	2.44
Iterated SVM cost 5 gamma 0.05	1.09	1.36	2.45
Iterated SVM cost 1 gamma 0.1	1.09	1.38	2.47
Nmodels RT se 0.5	1.19	1.29	2.47
Iterated SVM cost 50 gamma 0.01	1.13	1.35	2.48
Iterated SVM cost 100 gamma 0.01	1.12	1.37	2.48
Iterated SVM cost 50 gamma 0.05	1.14	1.35	2.49
Nmodels RT se 1	1.21	1.3	2.51
Iterated SVM cost 1 gamma 0.05	1.13	1.39	2.52
Quantile QRF ntree 1000	1.22	1.31	2.52
Quantile QRF ntree 1500	1.22	1.31	2.53
Quantile QRF ntree 500	1.22	1.3	2.53
Iterated SVM cost 10 gamma 0.01	1.17	1.36	2.53
Iterated SVM cost 100 gamma 0.05	1.18	1.35	2.54
Nmodels SVM cost 1 gamma 0.001	1.2	1.35	2.55
Iterated SVM cost 5 gamma 0.01	1.19	1.36	2.55
Nmodels RT se 1.5	1.24	1.32	2.55
Iterated RF ntree 1500	1.29	1.27	2.56
Iterated RF ntree 500	1.29	1.27	2.56
Iterated SVM cost 100 gamma 0.001	1.22	1.34	2.56
Iterated RF ntree 1000	1.29	1.28	2.57
Iterated SVM cost 50 gamma 0.001	1.23	1.34	2.57
Iterated SVM cost 1 gamma 0.01	1.24	1.37	2.61
Iterated SVM cost 10 gamma 0.001	1.26	1.36	2.62
Iterated SVM cost 5 gamma 0.001	1.27	1.37	2.64
Iterated RT se 0	1.28	1.4	2.68
Iterated SVM cost 1 gamma 0.001	1.27	1.43	2.7
Iterated RT se 0.5	1.33	1.41	2.74

Iterated RT se 1	1.36	1.41	2.77
Iterated RT se 1.5	1.39	1.41	2.8

Table 1.11: All setups TQE

1.4.3 Utility

Figure 1.12 shows the results using the Utility error measure (larger is better) for all different setups.

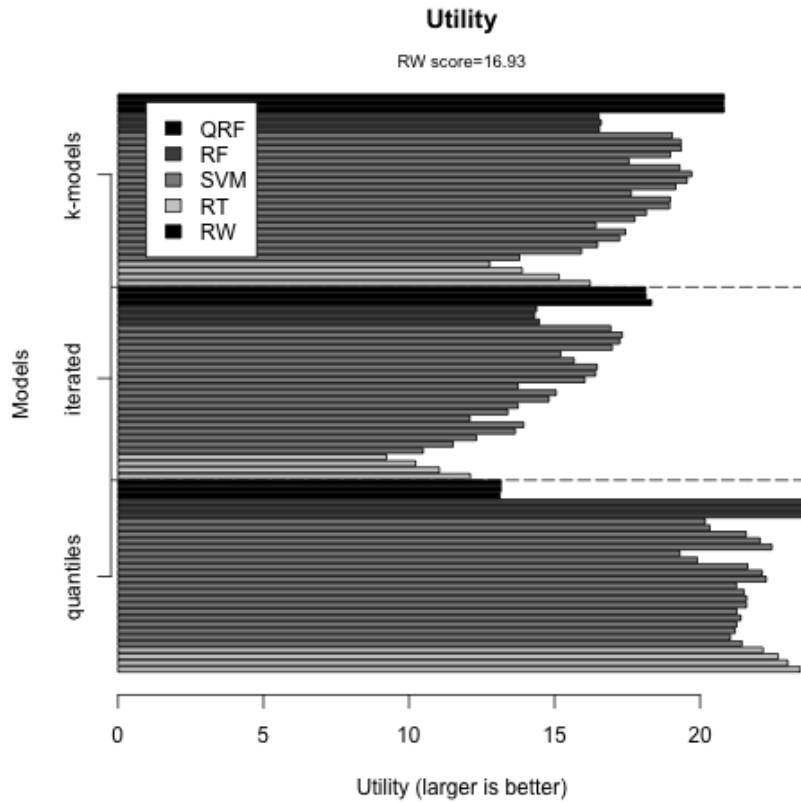


Figure 1.12: Turbidity

Table 1.12 shows all setups order by the Utility.

	utility
Quantile RF ntree 1500	23.87
Quantile RF ntree 500	23.85
Quantile RF ntree 1000	23.79
Quantile RT se 0	23.44
Quantile RT se 0.5	23.01
Quantile RT se 1	22.68
Quantile SVM cost 1 gamma 0.1	22.47

Quantile SVM cost 1 gamma 0.05	22.27
Quantile RT se 1.5	22.16
Quantile SVM cost 5 gamma 0.05	22.13
Quantile SVM cost 5 gamma 0.1	22.06
Quantile SVM cost 10 gamma 0.05	21.63
Quantile SVM cost 10 gamma 0.01	21.6
Quantile SVM cost 5 gamma 0.01	21.6
Quantile SVM cost 10 gamma 0.1	21.58
Quantile SVM cost 50 gamma 0.01	21.51
Quantile SVM cost 1 gamma 0.001	21.44
Quantile SVM cost 100 gamma 0.001	21.4
Quantile SVM cost 1 gamma 0.01	21.26
Quantile SVM cost 50 gamma 0.001	21.26
Quantile SVM cost 100 gamma 0.01	21.25
Quantile SVM cost 10 gamma 0.001	21.2
Quantile SVM cost 5 gamma 0.001	21.04
Nmodels QRF ntree 1500	20.82
Nmodels QRF ntree 500	20.82
Nmodels QRF ntree 1000	20.81
Quantile SVM cost 50 gamma 0.1	20.34
Quantile SVM cost 100 gamma 0.1	20.18
Quantile SVM cost 50 gamma 0.05	19.91
Nmodels SVM cost 50 gamma 0.05	19.71
Nmodels SVM cost 10 gamma 0.05	19.55
Nmodels SVM cost 10 gamma 0.1	19.35
Nmodels SVM cost 50 gamma 0.1	19.34
Quantile SVM cost 100 gamma 0.05	19.3
Nmodels SVM cost 100 gamma 0.05	19.3
Nmodels SVM cost 5 gamma 0.05	19.17
Nmodels SVM cost 100 gamma 0.1	19.05
Nmodels SVM cost 5 gamma 0.1	18.98
Nmodels SVM cost 100 gamma 0.01	18.97
Nmodels SVM cost 50 gamma 0.01	18.95
Iterated QRF ntree 500	18.33
Nmodels SVM cost 10 gamma 0.01	18.15
Iterated QRF ntree 1000	18.14
Iterated QRF ntree 1500	18.13
Nmodels SVM cost 5 gamma 0.01	17.76
Nmodels SVM cost 1 gamma 0.05	17.63
Nmodels SVM cost 1 gamma 0.1	17.56
Nmodels SVM cost 100 gamma 0.001	17.44

Iterated SVM cost 50 gamma 0.1	17.32
Iterated SVM cost 10 gamma 0.1	17.24
Nmodels SVM cost 50 gamma 0.001	17.23
Iterated SVM cost 5 gamma 0.1	16.98
Iterated SVM cost 100 gamma 0.1	16.93
RW	16.93
Nmodels RF ntree 1000	16.6
Nmodels RF ntree 500	16.54
Nmodels RF ntree 1500	16.52
Nmodels SVM cost 10 gamma 0.001	16.48
Iterated SVM cost 50 gamma 0.05	16.46
Nmodels SVM cost 1 gamma 0.01	16.42
Iterated SVM cost 10 gamma 0.05	16.41
Nmodels RT se 0	16.22
Iterated SVM cost 5 gamma 0.05	16.04
Nmodels SVM cost 5 gamma 0.001	15.93
Iterated SVM cost 100 gamma 0.05	15.67
Iterated SVM cost 1 gamma 0.1	15.21
Nmodels RT se 0.5	15.16
Iterated SVM cost 100 gamma 0.01	15.06
Iterated SVM cost 50 gamma 0.01	14.81
Iterated RF ntree 500	14.47
Iterated RF ntree 1500	14.38
Iterated RF ntree 1000	14.32
Iterated SVM cost 100 gamma 0.001	13.94
Nmodels RT se 1	13.89
Nmodels SVM cost 1 gamma 0.001	13.8
Iterated SVM cost 1 gamma 0.05	13.75
Iterated SVM cost 10 gamma 0.01	13.74
Iterated SVM cost 50 gamma 0.001	13.65
Iterated SVM cost 5 gamma 0.01	13.4
Quantile QRF ntree 1000	13.16
Quantile QRF ntree 1500	13.16
Quantile QRF ntree 500	13.13
Nmodels RT se 1.5	12.77
Iterated SVM cost 10 gamma 0.001	12.31
Iterated RT se 0	12.1
Iterated SVM cost 1 gamma 0.01	12.09
Iterated SVM cost 5 gamma 0.001	11.52
Iterated RT se 0.5	11.04
Iterated SVM cost 1 gamma 0.001	10.49

Iterated RT se 1	10.23
Iterated RT se 1.5	9.23

Table 1.12: All setups Utility