

Table 1: Training parameters and results of the AE correction in the case of 7 size sections parameterization: number of trees in the RF model $n_estimators$, the RF training parameters $min_samples_split$ and $max_features$, the mean values of root mean squared errors ϵ_{RMSE} (RMSE) and mean relative errors ϵ_{MRE} (MRE), and the average time used for evaluating the RF model t .

$n_estimators$	$min_samples_split$	$max_features$	mean(ϵ_{RMSE}) (cm^{-3})	mean(ϵ_{MRE}) (%)	t (ms)
400	2	25	41.3	9.3	0.48
200	2	25	41.4	9.3	0.27
400	5	25	41.4	9.3	0.27
200	5	25	41.5	9.3	0.14
100	2	25	41.8	9.4	0.14
100	5	25	41.9	9.4	0.08
50	5	25	42.1	9.4	0.05
50	2	25	42.1	9.4	0.09
400	15	25	42.2	9.4	0.16
200	15	25	42.2	9.5	0.08
100	15	25	42.4	9.5	0.05
50	15	25	42.8	9.6	0.03
400	25	25	42.9	9.6	0.14
200	25	25	43.0	9.6	0.07
100	25	25	43.2	9.6	0.05
25	5	25	43.2	9.6	0.03
50	25	25	43.4	9.7	0.03
400	2	15	43.4	9.7	0.48
25	15	25	43.5	9.6	0.02
400	5	15	43.5	9.7	0.28
25	2	25	43.6	9.6	0.05
200	2	15	43.6	9.7	0.26
200	5	15	43.7	9.7	0.14
100	2	15	44.0	9.8	0.14
100	5	15	44.1	9.8	0.08
25	25	25	44.1	9.8	0.02
400	15	15	44.3	9.9	0.16
200	15	15	44.4	9.9	0.08
50	2	15	44.5	9.9	0.09
100	15	15	44.6	9.9	0.05
50	5	15	44.6	9.9	0.05
400	25	15	44.9	10.0	0.14
50	15	15	45.1	10.0	0.03
200	25	15	45.1	10.0	0.07
100	25	15	45.1	10.0	0.05
50	25	15	45.4	10.1	0.03

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Table 1 – continued from the previous page

<i>n_estimators</i>	<i>min_samples_split</i>	<i>max_features</i>	mean(ϵ_{RMSE}) (cm^{-3})	mean(ϵ_{MRE}) (%)	<i>t</i> (ms)
25	5	15	45.8	10.1	0.03
25	15	15	46.0	10.1	0.03
25	2	15	46.0	10.1	0.05
400	2	10	46.1	10.1	0.48
400	5	10	46.2	10.2	0.28
400	100	25	46.3	10.2	0.11
200	100	25	46.4	10.2	0.05
100	100	25	46.4	10.2	0.04
25	25	15	46.4	10.2	0.02
200	2	10	46.4	10.2	0.26
200	5	10	46.4	10.2	0.14
50	100	25	46.7	10.3	0.02
100	2	10	46.8	10.2	0.14
100	5	10	46.9	10.2	0.09
25	100	25	46.9	10.3	0.02
400	15	10	46.9	10.3	0.17
200	15	10	47.1	10.3	0.09
100	15	10	47.4	10.3	0.05
50	2	10	47.5	10.3	0.08
400	25	10	47.5	10.4	0.14
50	5	10	47.6	10.3	0.05
200	25	10	47.6	10.4	0.08
100	25	10	47.7	10.4	0.05
50	15	10	47.8	10.4	0.03
400	100	15	48.1	10.5	0.11
200	100	15	48.1	10.5	0.06
50	25	10	48.2	10.5	0.03
100	100	15	48.3	10.5	0.04
50	100	15	48.6	10.5	0.02
25	5	10	48.7	10.5	0.03
25	100	15	48.9	10.6	0.02
25	15	10	49.2	10.5	0.03
25	25	10	49.2	10.6	0.02
25	2	10	49.3	10.6	0.05
400	100	10	50.3	10.7	0.11
200	100	10	50.4	10.8	0.06
100	100	10	50.5	10.8	0.04
50	100	10	50.7	10.8	0.02
25	100	10	51.2	10.8	0.02
400	2	5	51.5	10.8	0.47
400	5	5	51.7	10.8	0.28
200	2	5	51.8	10.9	0.26
200	5	5	51.8	10.9	0.14

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Table 1 – continued from the previous page

<i>n_estimators</i>	<i>min_samples_split</i>	<i>max_features</i>	mean(ϵ_{RMSE}) (cm^{-3})	mean(ϵ_{MRE}) (%)	<i>t</i> (ms)
100	5	5	52.2	10.9	0.09
400	15	5	52.2	10.9	0.17
200	15	5	52.4	10.9	0.09
100	2	5	52.5	10.9	0.14
400	25	5	52.7	11.0	0.14
200	25	5	52.9	11.0	0.08
100	15	5	52.9	11.0	0.05
50	15	5	53.2	11.0	0.04
50	5	5	53.3	11.0	0.05
100	25	5	53.4	11.0	0.05
50	2	5	53.5	11.0	0.08
50	25	5	53.7	11.1	0.03
25	25	5	54.7	11.2	0.02
25	15	5	54.7	11.2	0.03
25	5	5	55.0	11.2	0.03
400	100	5	55.1	11.3	0.11
200	100	5	55.1	11.3	0.06
100	100	5	55.1	11.3	0.04
50	100	5	55.4	11.3	0.02
25	2	5	55.5	11.3	0.05
25	100	5	56.3	11.4	0.02

Table 2: Training parameters and results of the AE correction in the case of 4 size sections parameterization: number of trees in the RF model $n_estimators$, the RF training parameters $min_samples_split$ and $max_features$, the mean values of root mean squared errors ϵ_{RMSE} (RMSE) and mean relative errors ϵ_{MRE} (MRE), and the average time used for evaluating the RF model t .

$n_estimators$	$min_samples_split$	$max_features$	mean(ϵ_{RMSE}) (cm^{-3})	mean(ϵ_{MRE}) (%)	t (ms)
400	2	15	95.5	23.5	0.48
400	5	15	95.7	23.5	0.26
200	2	15	95.9	23.6	0.26
200	5	15	96.1	23.5	0.13
400	2	25	96.7	23.1	0.49
100	2	15	96.8	23.7	0.14
100	5	15	96.9	23.7	0.08
200	2	25	97.2	23.2	0.26
100	2	25	97.3	23.3	0.14
200	5	25	97.9	23.2	0.13
50	5	15	98.2	23.8	0.05
50	2	15	98.4	24.0	0.08
400	5	25	98.6	23.1	0.26
400	15	15	98.8	24.0	0.16
200	15	15	99.2	24.1	0.08
100	5	25	99.4	23.3	0.08
50	5	25	99.6	23.5	0.05
100	15	15	99.8	24.2	0.05
400	2	10	99.8	24.6	0.48
200	2	10	100.1	24.6	0.26
50	2	25	100.1	23.6	0.08
400	5	10	100.2	24.6	0.27
50	15	15	100.5	24.4	0.03
25	5	15	100.7	24.4	0.03
200	5	10	101.0	24.7	0.13
25	2	15	101.1	24.4	0.05
100	5	10	101.3	24.8	0.08
25	2	25	101.3	24.2	0.05
100	2	10	101.4	24.8	0.14
400	25	15	101.9	24.6	0.14
200	25	15	102.1	24.7	0.07
400	15	25	102.2	23.6	0.16
100	25	15	102.4	24.7	0.04
50	2	10	102.6	25.2	0.08
200	15	25	103.0	23.7	0.08
25	15	15	103.0	24.8	0.02

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Table 2 – continued from the previous page

<i>n_estimators</i>	<i>min_samples_split</i>	<i>max_features</i>	mean(ϵ_{RMSE}) (cm^{-3})	mean(ϵ_{MRE}) (%)	<i>t</i> (ms)
25	5	25	103.1	23.9	0.03
400	15	10	103.3	25.3	0.16
50	25	15	103.3	24.9	0.03
50	5	10	103.7	25.2	0.05
200	15	10	103.9	25.3	0.08
100	15	10	104.3	25.4	0.05
100	15	25	104.4	23.8	0.05
50	15	25	105.0	23.9	0.03
50	15	10	105.6	25.6	0.03
25	25	15	105.8	25.3	0.02
400	25	25	106.0	24.3	0.14
400	25	10	106.3	25.9	0.14
200	25	25	106.4	24.2	0.07
200	25	10	106.6	25.9	0.07
25	2	10	107.0	25.8	0.05
25	5	10	107.2	25.8	0.03
100	25	10	107.6	26.0	0.04
25	15	10	107.7	26.1	0.02
50	25	10	108.4	26.2	0.03
100	25	25	108.5	24.3	0.04
25	25	25	108.8	24.8	0.02
50	25	25	109.0	24.5	0.03
25	25	10	110.8	26.4	0.02
25	15	25	112.6	24.3	0.02
400	2	5	115.2	27.9	0.48
200	100	15	115.9	27.5	0.05
400	100	15	115.9	27.5	0.11
200	2	5	116.0	28.0	0.26
200	5	5	116.0	28.0	0.14
400	5	5	116.0	28.0	0.27
100	100	15	116.3	27.6	0.03
100	2	5	116.5	28.1	0.14
50	100	15	117.1	27.6	0.02
100	5	5	118.0	28.3	0.08
25	100	15	118.6	27.8	0.02
400	15	5	119.7	28.8	0.16
50	2	5	119.8	28.6	0.08
400	100	10	120.3	28.8	0.11
200	100	10	120.3	28.8	0.05
200	15	5	120.4	28.8	0.08
50	5	5	120.5	28.6	0.05
100	100	10	120.8	28.9	0.03
100	15	5	121.2	28.9	0.05

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Table 2 – continued from the previous page

<i>n_estimators</i>	<i>min_samples_split</i>	<i>max_features</i>	mean(ϵ_{RMSE}) (cm^{-3})	mean(ϵ_{MRE}) (%)	<i>t</i> (ms)
200	100	25	121.4	27.1	0.05
100	100	25	121.4	27.2	0.03
400	100	25	121.5	27.1	0.11
50	100	10	122.1	29.1	0.02
400	25	5	122.8	29.4	0.14
50	15	5	123.4	29.2	0.03
200	25	5	123.5	29.5	0.07
25	100	25	124.0	27.4	0.02
100	25	5	124.0	29.5	0.04
25	100	10	124.0	29.2	0.02
50	100	25	124.0	27.3	0.02
25	2	5	125.6	29.5	0.05
50	25	5	125.6	29.8	0.03
25	5	5	125.7	29.3	0.03
25	15	5	125.8	29.6	0.03
25	25	5	127.9	30.0	0.02
200	100	5	136.8	32.3	0.05
400	100	5	136.9	32.3	0.11
100	100	5	138.0	32.4	0.03
50	100	5	140.1	32.6	0.02
25	100	5	140.5	32.8	0.02