

# Simulated examples for the survival ensemble methods

Select data type

Hnsc

Time point for event prediction:

4

Random seed for calibration and validation

43

K\_Outer loop CV (for validation)

5

K\_inner CV folds (model tuning)

3

Simulated data: random seed (generation):

4242

Sample size:

150

Observation time

5

Expected event prevalence by study end

0.5

Expected drop out rate

0.3

Custom data: path to data file

~/Desktop/Study\_KCL/PhD P

Predictors to use in the model

"baseline\_age\_", "genderdun

Time variable name

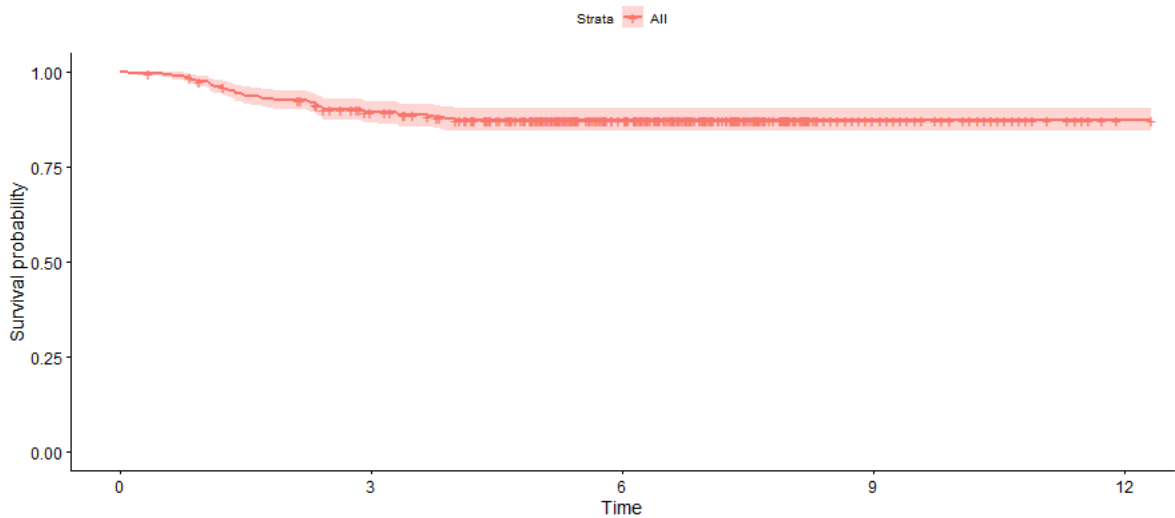
time

Event indicator variable name

event

- Sample statistics
- CoxPH
- SRF
- Ens1: CoxPH->SRF
- Ens2: CoxPH in clusters
- Ens3: extended CoxPH
- Summary
- Conclusions

Non-parametric survival curve:



Main statistics:

	value
data_set_name	Hnsc
sample_size_N	451
time_fixed	4
time_max	12.32
time_mean	6.58
time_mean_event	1.83
time_mean_censored	7.26
time_mean_T	3.65
time_mean_event_T	1.83
time_mean_censored_T	7.26
event_%	12.42
event_before_T_%	12.42
censored_before_T_%	5.99

Data description:

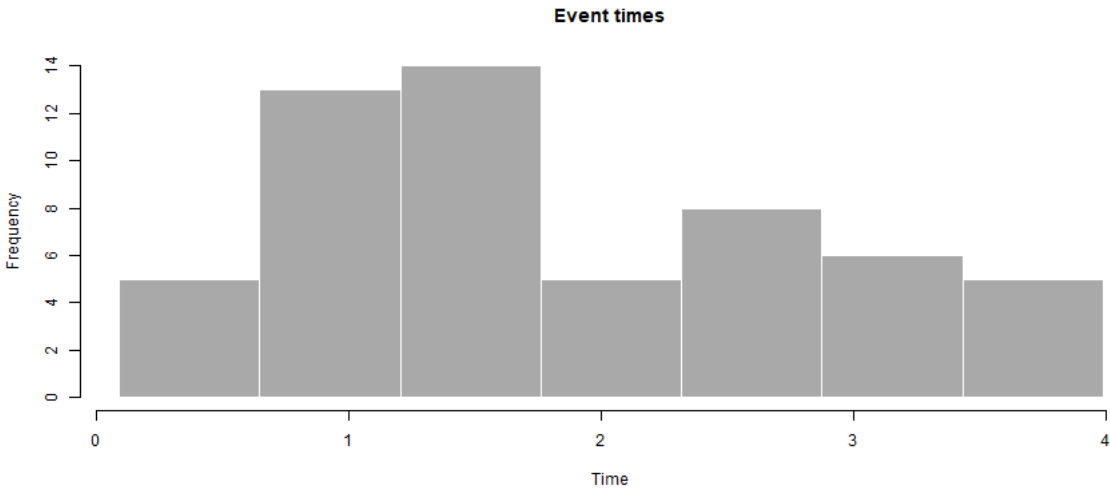
Show10▼entries

Search:

	vars	n	mean	sd	median	trimmed	mad	min	max	range	skew
original_firstorder_10Percentile	1	451	0	1.0011	0.2319	0.1475	0.3914	-14.4758	0.9884	15.4643	-8.3139
original_firstorder_90Percentile	2	451	0	1.0011	0.0311	-0.0216	0.5285	-2.2778	10.8068	13.0846	3.5879
original_firstorder_Energy	3	451	0	1.0011	-0.2209	-0.1648	0.1751	-0.3885	16.0724	16.461	10.9664
original_firstorder_Entropy	4	451	0	1.0011	-0.1302	-0.085	0.8402	-2.1371	5.432	7.5691	1.2123
original_firstorder_InterquartileRange	5	451	0	1.0011	-0.1591	-0.1143	0.2399	-0.6087	18.184	18.7927	14.2395
original_firstorder_Kurtosis	6	451	0	1.0011	-0.2285	-0.1288	0.7968	-1.365	6.248	7.613	1.7934
original_firstorder_Maximum	7	451	0	1.0011	-0.3685	-0.1978	0.2322	-0.6903	13.2764	13.9666	6.3927
original_firstorder_Mean	8	451	0	1.0011	0.2311	0.113	0.6551	-7.8233	2.8476	10.6709	-1.9926
original_firstorder_MeanAbsoluteDeviation	9	451	0	1.0011	-0.2885	-0.1752	0.3678	-0.7979	13.0632	13.8612	6.4408
original_firstorder_Median	10	451	0	1.0011	0.2057	0.0996	0.674	-5.7482	3.0451	8.7933	-1.1935

Showing 1 to 10 of 10 entries

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Histograms for the first 10 predictors:

