Second iteration

Table 1. Validation scores.

Segment size	Number of trees	Accuracy	Precision(micro)	Recall(micro)
12.1	93	0.96	0.96	0.96
8.9	171	0.94	0.94	0.94
7.0	203	0.95	0.95	0.95

Table 2. K-fold cross-validation scores.

Segment size	Number of trees	Accuracy	Precision(micro)	Recall(micro)
12.1	93	0.82 ±0.05	0.84 ±0.04	0.82 ±0.05
8.9	171	0.82 ±0.04	0.84 ± 0.04	0.82 ±0.04
7.0	203	0.83 ±0.04	0.84 ± 0.04	0.83 ±0.04

Dataset cross-validated exist of training and validation data

Table 3. Test dataset

Segment size	Number of trees	Accuracy	Precision	Recall
12.1	93	0.85	0.85	0.85
8.9	171	0.86	0.86	0.86
7.0	203	0.84	0.84	0.84

Test datasets exist of data from 3 subjects.

Based on the experiments with the segment size as describe in chapter Activity Classification of Methods to was concluded that with this dataset 7.0, 8.9 and 12.1 seconds are the best segments sizes. For each segment size number of trees was decided with experiment as described in chapter the experiment resulted in 93 trees for 12.1 seconds, 171 trees for 8.9 seconds and 203 trees for 7 seconds. The results of each segment size for the validation dataset are described in Table 1, the cross-validation results are described in Table 2 and in Table 3 the Test dataset are in Table 3. The ability of the Random Forest model to distinct activities from each other are presented in figure 1

Met opmerkingen [W(1]: Spaties na die +- staat wat

Met opmerkingen [W(2]: Beetje vage zin

