

**Analysis name : All videos, ROI1, AR based estimation,
components: G, GRD, ExG, ICA**

**Created using MATLAB report generator, code by: Jaromir Przybyło,
przybylo@agh.edu.pl, MATLAB R2019a**

02-Aug-2019

Spis treści

Rozdział 1. General information	1
1.1. Abbreviations used	1
Rozdział 2. video 1, G, AR_ROI1	2
2.1. Experiment details	2
2.2. Experiment results (whole sequence).....	2
2.3. Experiment results (parts).....	2
2.4. Experiment results (plots).....	3
Rozdział 3. video 1, GRD, AR_ROI1	4
3.1. Experiment details	4
3.2. Experiment results (whole sequence).....	4
3.3. Experiment results (parts).....	4
3.4. Experiment results (plots).....	5
Rozdział 4. video 1, ExG, AR_ROI1	6
4.1. Experiment details	6
4.2. Experiment results (whole sequence).....	6
4.3. Experiment results (parts).....	6
4.4. Experiment results (plots).....	7
Rozdział 5. video 1, ICA, AR_ROI1	8
5.1. Experiment details	8
5.2. Experiment results (whole sequence).....	8
5.3. Experiment results (parts).....	8
5.4. Experiment results (plots).....	9
Rozdział 6. video 2, G, AR_ROI1	10
6.1. Experiment details	10
6.2. Experiment results (whole sequence).....	10
6.3. Experiment results (parts).....	10

6.4. Experiment results (plots).....	11
Rozdział 7. video 2, GRD, AR_ROI1	12
7.1. Experiment details	12
7.2. Experiment results (whole sequence).....	12
7.3. Experiment results (parts).....	12
7.4. Experiment results (plots).....	13
Rozdział 8. video 2, ExG, AR_ROI1	14
8.1. Experiment details	14
8.2. Experiment results (whole sequence).....	14
8.3. Experiment results (parts).....	14
8.4. Experiment results (plots).....	15
Rozdział 9. video 2, ICA, AR_ROI1	16
9.1. Experiment details	16
9.2. Experiment results (whole sequence).....	16
9.3. Experiment results (parts).....	16
9.4. Experiment results (plots).....	17
Rozdział 10. video 3, G, AR_ROI1	18
10.1. Experiment details	18
10.2. Experiment results (whole sequence).....	18
10.3. Experiment results (parts).....	18
10.4. Experiment results (plots).....	19
Rozdział 11. video 3, GRD, AR_ROI1	20
11.1. Experiment details	20
11.2. Experiment results (whole sequence).....	20
11.3. Experiment results (parts).....	20
11.4. Experiment results (plots).....	21
Rozdział 12. video 3, ExG, AR_ROI1	22
12.1. Experiment details	22

12.2. Experiment results (whole sequence).....	22
12.3. Experiment results (parts).....	22
12.4. Experiment results (plots).....	23
Rozdział 13. video 3, ICA, AR_ROI1	24
13.1. Experiment details	24
13.2. Experiment results (whole sequence).....	24
13.3. Experiment results (parts).....	24
13.4. Experiment results (plots).....	25
Rozdział 14. video 4, G, AR_ROI1	26
14.1. Experiment details	26
14.2. Experiment results (whole sequence).....	26
14.3. Experiment results (parts).....	26
14.4. Experiment results (plots).....	27
Rozdział 15. video 4, GRD, AR_ROI1	28
15.1. Experiment details	28
15.2. Experiment results (whole sequence).....	28
15.3. Experiment results (parts).....	28
15.4. Experiment results (plots).....	29
Rozdział 16. video 4, ExG, AR_ROI1	30
16.1. Experiment details	30
16.2. Experiment results (whole sequence).....	30
16.3. Experiment results (parts).....	30
16.4. Experiment results (plots).....	31
Rozdział 17. video 4, ICA, AR_ROI1	32
17.1. Experiment details	32
17.2. Experiment results (whole sequence).....	32
17.3. Experiment results (parts).....	32
17.4. Experiment results (plots).....	33

Rozdział 18. video 5, G, AR_ROI1	34
18.1. Experiment details	34
18.2. Experiment results (whole sequence).....	34
18.3. Experiment results (parts).....	34
18.4. Experiment results (plots).....	35
Rozdział 19. video 5, GRD, AR_ROI1	36
19.1. Experiment details	36
19.2. Experiment results (whole sequence).....	36
19.3. Experiment results (parts).....	36
19.4. Experiment results (plots).....	37
Rozdział 20. video 5, ExG, AR_ROI1	38
20.1. Experiment details	38
20.2. Experiment results (whole sequence).....	38
20.3. Experiment results (parts).....	38
20.4. Experiment results (plots).....	39
Rozdział 21. video 5, ICA, AR_ROI1	40
21.1. Experiment details	40
21.2. Experiment results (whole sequence).....	40
21.3. Experiment results (parts).....	40
21.4. Experiment results (plots).....	41
Rozdział 22. video 6, G, AR_ROI1	42
22.1. Experiment details	42
22.2. Experiment results (whole sequence).....	42
22.3. Experiment results (parts).....	42
22.4. Experiment results (plots).....	43
Rozdział 23. video 6, GRD, AR_ROI1	44
23.1. Experiment details	44
23.2. Experiment results (whole sequence).....	44

23.3. Experiment results (parts).....	44
23.4. Experiment results (plots).....	45
Rozdział 24. video 6, ExG, AR_ROI1	46
24.1. Experiment details	46
24.2. Experiment results (whole sequence).....	46
24.3. Experiment results (parts).....	46
24.4. Experiment results (plots).....	47
Rozdział 25. video 6, ICA, AR_ROI1	48
25.1. Experiment details	48
25.2. Experiment results (whole sequence).....	48
25.3. Experiment results (parts).....	48
25.4. Experiment results (plots).....	49
Rozdział 26. video 7, G, AR_ROI1	50
26.1. Experiment details	50
26.2. Experiment results (whole sequence).....	50
26.3. Experiment results (parts).....	50
26.4. Experiment results (plots).....	51
Rozdział 27. video 7, GRD, AR_ROI1	52
27.1. Experiment details	52
27.2. Experiment results (whole sequence).....	52
27.3. Experiment results (parts).....	52
27.4. Experiment results (plots).....	53
Rozdział 28. video 7, ExG, AR_ROI1	54
28.1. Experiment details	54
28.2. Experiment results (whole sequence).....	54
28.3. Experiment results (parts).....	54
28.4. Experiment results (plots).....	55
Rozdział 29. video 7, ICA, AR_ROI1	56

29.1. Experiment details	56
29.2. Experiment results (whole sequence).....	56
29.3. Experiment results (parts).....	56
29.4. Experiment results (plots).....	57
Rozdział 30. video 8, G, AR_ROI1	58
30.1. Experiment details	58
30.2. Experiment results (whole sequence).....	58
30.3. Experiment results (parts).....	58
30.4. Experiment results (plots).....	59
Rozdział 31. video 8, GRD, AR_ROI1	60
31.1. Experiment details	60
31.2. Experiment results (whole sequence).....	60
31.3. Experiment results (parts).....	60
31.4. Experiment results (plots).....	61
Rozdział 32. video 8, ExG, AR_ROI1	62
32.1. Experiment details	62
32.2. Experiment results (whole sequence).....	62
32.3. Experiment results (parts).....	62
32.4. Experiment results (plots).....	63
Rozdział 33. video 8, ICA, AR_ROI1	64
33.1. Experiment details	64
33.2. Experiment results (whole sequence).....	64
33.3. Experiment results (parts).....	64
33.4. Experiment results (plots).....	65
Rozdział 34. video 9, G, AR_ROI1	66
34.1. Experiment details	66
34.2. Experiment results (whole sequence).....	66
34.3. Experiment results (parts).....	66

34.4. Experiment results (plots).....	67
Rozdział 35. video 9, GRD, AR_ROI1	68
35.1. Experiment details	68
35.2. Experiment results (whole sequence).....	68
35.3. Experiment results (parts).....	68
35.4. Experiment results (plots).....	69
Rozdział 36. video 9, ExG, AR_ROI1	70
36.1. Experiment details	70
36.2. Experiment results (whole sequence).....	70
36.3. Experiment results (parts).....	70
36.4. Experiment results (plots).....	71
Rozdział 37. video 9, ICA, AR_ROI1	72
37.1. Experiment details	72
37.2. Experiment results (whole sequence).....	72
37.3. Experiment results (parts).....	72
37.4. Experiment results (plots).....	73
Rozdział 38. All video sequences - results.....	74
38.1. experiment results (table).....	74

Rozdział 1. General information

1.1. Abbreviations used

FT-face tracking, FA-face analysis, HR-detectHR

Me - mean of the heart rate error [bpm], Mae - mean absolute error [bpm], SDe - standard deviation of the error [bpm], RMSE - root mean squared error [bpm]

Merp - mean of error rate percentage [%], sRate - succes rate [%]

r,p - correlation coefficient and p-values for testing the hypothesis that there is no relationship between the observed phenomena (null hypothesis).

meanLight - mean illumination [lux], stdAcc - std of all 3 (or more) components of acceleration sensor data

stdR - std of all head rotations, stdT - std of all head translations (from face tracking algorithm)

Rozdział 2. video 1, G, AR_ROI1

2.1. Experiment details

Experiment name : video 1, G, AR_ROI1

Date : 26-Nov-2018 13:34:06

Camera : RGBRealSense

- relal/target fps = 59.6/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set4

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-g-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

2.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '
video_1_G_AR_ROI1_(1)	'-2.70'	'6.72'	'9.07'	'9.47'	'0.08'	'0.45'	'-0.07'	'0.00'	'00:05:45'	'71.98'	'0.13'	'0.02'	'64.42'

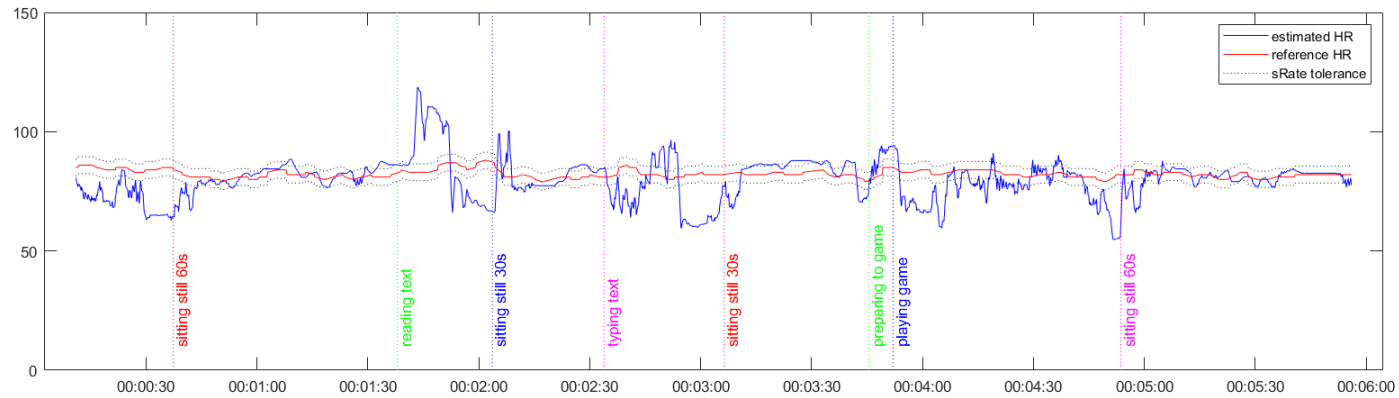
2.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '

Rozdział 2. video 1, G, AR_ROI1

1:sitting still 60s	'-0.35'	'3.07'	'4.45'	'4.47'	'0.04'	'0.74'	'0.13'	'0.00'	'00:01:01'	'77.98'	'0.02'	'0.01'	'6.23'
2:reading text	'2.57'	'15.47'	'17.47'	'17.65'	'0.18'	'0.13'	'-0.55'	'0.00'	'00:00:26'	'76.32'	'0.01'	'0.02'	'37.76'
3:sitting still 30s	'0.12'	'4.55'	'6.04'	'6.04'	'0.06'	'0.51'	'-0.10'	'0.00'	'00:00:30'	'75.49'	'0.01'	'0.01'	'4.98'
4:typing text	'-8.59'	'12.60'	'11.40'	'14.27'	'0.15'	'0.14'	'-0.34'	'0.00'	'00:00:32'	'60.83'	'0.01'	'0.03'	'119.78'
5:sitting still 30s	'1.16'	'4.78'	'5.48'	'5.60'	'0.06'	'0.35'	'0.43'	'0.00'	'00:00:39'	'64.89'	'0.01'	'0.01'	'10.12'
6:preparing to game	'6.27'	'6.33'	'3.25'	'7.06'	'0.08'	'0.22'	'0.84'	'0.00'	'00:00:07'	'70.53'	'0.01'	'0.02'	'51.43'
7:playing game	'-6.25'	'7.60'	'7.90'	'10.07'	'0.09'	'0.33'	'0.23'	'0.00'	'00:01:02'	'69.77'	'0.01'	'0.04'	'58.49'
8:sitting still 60s	'-0.96'	'2.37'	'3.73'	'3.85'	'0.03'	'0.84'	'-0.11'	'0.00'	'00:01:02'	'73.63'	'0.01'	'0.03'	'8.03'

2.4. Experiment results (plots)



Rozdział 3. video 1, GRD, AR_ROI1

3.1. Experiment details

Experiment name : video 1, GRD, AR_ROI1

Date : 26-Nov-2018 13:34:06

Camera : RGBRealSense

- relal/target fps = 59.6/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set4

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-gr-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

3.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	' [bpm] '	' [bpm] '	' [bpm] '	' [bpm] '	' [%] '	' [%] '	' '	' '	' [hh:mm:ss] '	' [lux] '	' G '	' '	' '
video_1_GRD_AR_ROI1_(2)	'-0.64'	'3.47'	'4.58'	'4.63'	'0.04'	'0.62'	'0.35'	'0.00'	'00:05:45'	'71.98'	'0.13'	'0.02'	'64.42'

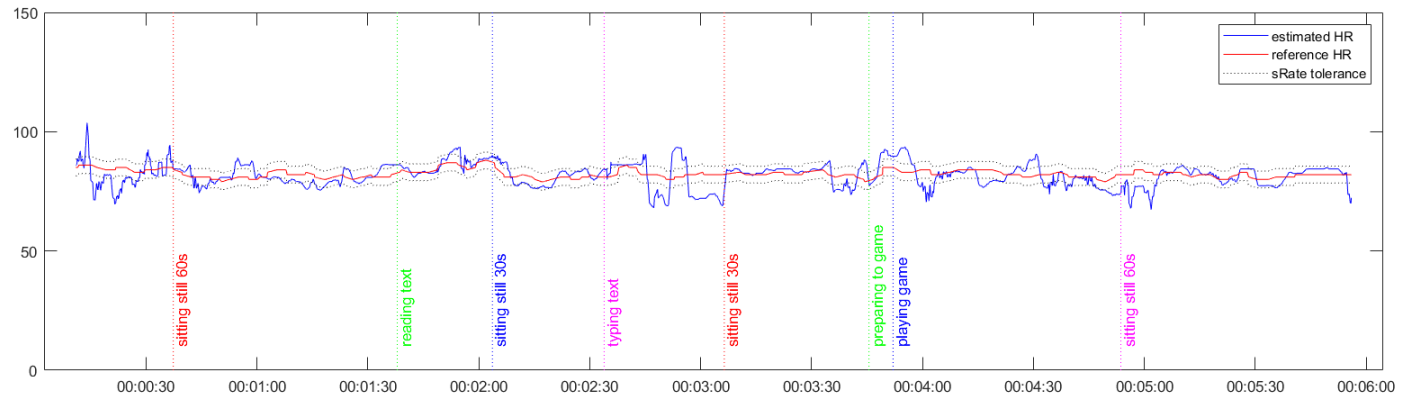
3.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	' [bpm] '	' [bpm] '	' [bpm] '	' [bpm] '	' [%] '	' [%] '	' '	' '	' [hh:mm:ss] '	' [lux] '	' G '	' '	' '

Rozdział 3. video 1, GRD, AR_ROI1

1:sitting still 60s	'-0.28'	'2.86'	'3.41'	'3.42'	'0.04'	'0.64'	'0.00'	'0.79'	'00:01:01'	'77.98'	'0.02'	'0.01'	'6.23'
2:reading text	'1.28'	'1.83'	'2.15'	'2.50'	'0.02'	'0.86'	'0.80'	'0.00'	'00:00:26'	'76.32'	'0.01'	'0.02'	'37.76'
3:sitting still 30s	'0.19'	'2.78'	'3.08'	'3.08'	'0.03'	'0.75'	'0.64'	'0.00'	'00:00:30'	'75.49'	'0.01'	'0.01'	'4.98'
4:typing text	'-2.46'	'7.01'	'7.72'	'8.10'	'0.09'	'0.26'	'0.19'	'0.00'	'00:00:32'	'60.83'	'0.01'	'0.03'	'119.78'
5:sitting still 30s	'0.31'	'2.28'	'3.17'	'3.18'	'0.03'	'0.75'	'0.20'	'0.00'	'00:00:39'	'64.89'	'0.01'	'0.01'	'10.12'
6:preparing to game	'3.63'	'4.40'	'3.81'	'5.26'	'0.05'	'0.40'	'0.88'	'0.00'	'00:00:07'	'70.53'	'0.01'	'0.02'	'51.43'
7:playing game	'-1.31'	'3.84'	'4.67'	'4.85'	'0.05'	'0.49'	'0.26'	'0.00'	'00:01:02'	'69.77'	'0.01'	'0.04'	'58.49'
8:sitting still 60s	'-0.96'	'2.85'	'3.89'	'4.00'	'0.03'	'0.78'	'0.07'	'0.00'	'00:01:02'	'73.63'	'0.01'	'0.03'	'8.03'

3.4. Experiment results (plots)



Rozdział 4. video 1, ExG, AR_ROI1

4.1. Experiment details

Experiment name : video 1, ExG, AR_ROI1

Date : 26-Nov-2018 13:34:06

Camera : RGBRealSense

- relal/target fps = 59.6/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set4

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-exg-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

4.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	' [bpm] '	' [bpm] '	' [bpm] '	' [bpm] '	' [%] '	' [%] '	' '	' '	' [hh:mm:ss] '	' [lux] '	' G '	' '	' '
video_1_ExG_AR_ROI1_(3)	' -0.18 '	' 2.60 '	' 3.51 '	' 3.52 '	' 0.03 '	' 0.74 '	' 0.46 '	' 0.00 '	' 00:05:45 '	' 71.98 '	' 0.13 '	' 0.02 '	' 64.42 '

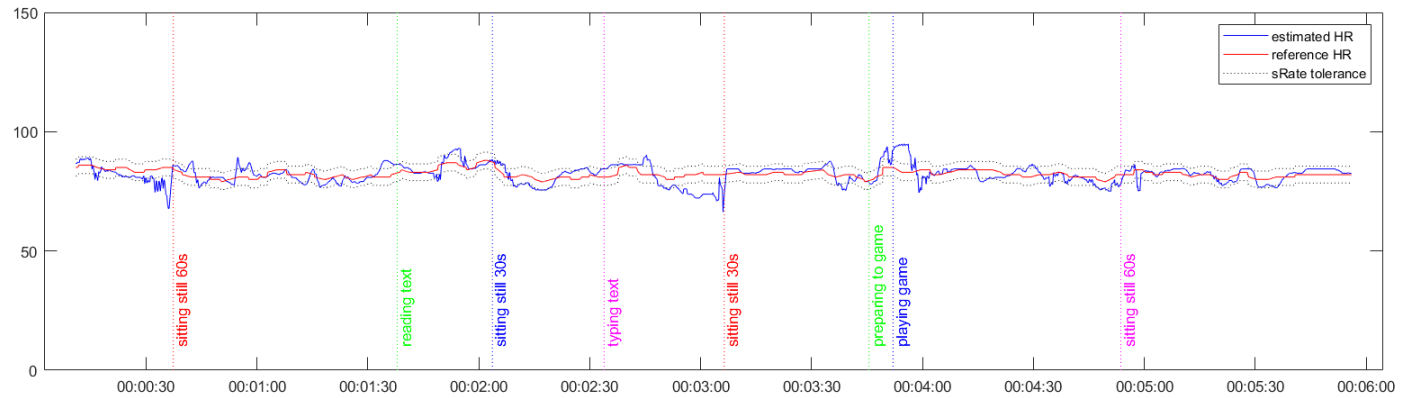
4.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	' [bpm] '	' [bpm] '	' [bpm] '	' [bpm] '	' [%] '	' [%] '	' '	' '	' [hh:mm:ss] '	' [lux] '	' G '	' '	' '

Rozdział 4. video 1, ExG, AR_ROI1

1:sitting still 60s	'0.30'	'2.23'	'2.82'	'2.83'	'0.03'	'0.79'	'0.28'	'0.00'	'00:01:01'	'77.98'	'0.02'	'0.01'	'6.23'
2:reading text	'0.70'	'1.90'	'2.55'	'2.64'	'0.02'	'0.81'	'0.63'	'0.00'	'00:00:26'	'76.32'	'0.01'	'0.02'	'37.76'
3:sitting still 30s	'0.01'	'2.80'	'3.07'	'3.07'	'0.03'	'0.62'	'0.59'	'0.00'	'00:00:30'	'75.49'	'0.01'	'0.01'	'4.98'
4:typing text	'-2.54'	'5.13'	'5.41'	'5.98'	'0.06'	'0.31'	'0.44'	'0.00'	'00:00:32'	'60.83'	'0.01'	'0.03'	'119.78'
5:sitting still 30s	'0.64'	'1.75'	'2.19'	'2.28'	'0.02'	'0.88'	'0.53'	'0.00'	'00:00:39'	'64.89'	'0.01'	'0.01'	'10.12'
6:preparing to game	'2.78'	'3.77'	'3.64'	'4.57'	'0.05'	'0.56'	'0.87'	'0.00'	'00:00:07'	'70.53'	'0.01'	'0.02'	'51.43'
7:playing game	'-0.04'	'2.78'	'3.91'	'3.91'	'0.03'	'0.72'	'0.43'	'0.00'	'00:01:02'	'69.77'	'0.01'	'0.04'	'58.49'
8:sitting still 60s	'0.25'	'1.68'	'2.09'	'2.11'	'0.02'	'0.95'	'0.58'	'0.00'	'00:01:02'	'73.63'	'0.01'	'0.03'	'8.03'

4.4. Experiment results (plots)



Rozdział 5. video 1, ICA, AR_ROI1

5.1. Experiment details

Experiment name : video 1, ICA, AR_ROI1

Date : 26-Nov-2018 13:34:06

Camera : RGBRealSense

- relal/target fps = 59.6/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set4

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-ica-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

5.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	' [bpm] '	' [bpm] '	' [bpm] '	' [bpm] '	' [%] '	' [%] '	' '	' '	' [hh:mm:ss] '	' [lux] '	' G '	' '	' '
video_1_ICA_AR_ROI1_(4)	' -0.69 '	' 4.57 '	' 6.30 '	' 6.34 '	' 0.06 '	' 0.55 '	' -0.08 '	' 0.00 '	' 00:05:45 '	' 71.98 '	' 0.13 '	' 0.02 '	' 64.42 '

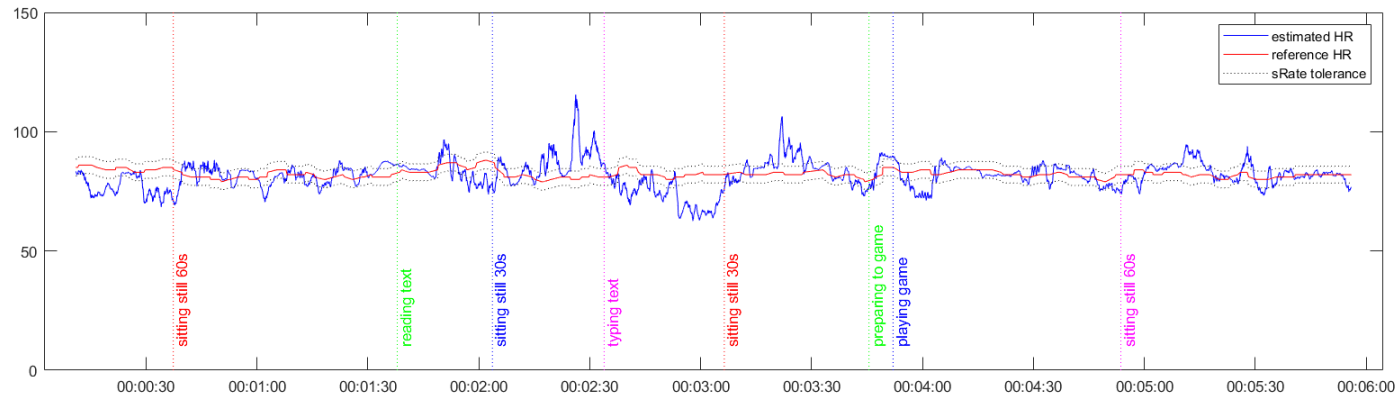
5.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	' [bpm] '	' [bpm] '	' [bpm] '	' [bpm] '	' [%] '	' [%] '	' '	' '	' [hh:mm:ss] '	' [lux] '	' G '	' '	' '

Rozdział 5. video 1, ICA, AR_ROI1

1:sitting still 60s	'0.38'	'3.38'	'4.14'	'4.15'	'0.04'	'0.59'	'-0.16'	'0.00'	'00:01:01'	'77.98'	'0.02'	'0.01'	'6.23'
2:reading text	'-1.65'	'4.04'	'4.97'	'5.24'	'0.05'	'0.58'	'-0.05'	'0.04'	'00:00:26'	'76.32'	'0.01'	'0.02'	'37.76'
3:sitting still 30s	'5.67'	'7.11'	'7.98'	'9.79'	'0.09'	'0.39'	'-0.31'	'0.00'	'00:00:30'	'75.49'	'0.01'	'0.01'	'4.98'
4:typing text	'-8.76'	'9.06'	'6.09'	'10.67'	'0.11'	'0.24'	'-0.04'	'0.08'	'00:00:32'	'60.83'	'0.01'	'0.03'	'119.78'
5:sitting still 30s	'2.24'	'4.15'	'5.28'	'5.73'	'0.05'	'0.57'	'0.44'	'0.00'	'00:00:39'	'64.89'	'0.01'	'0.01'	'10.12'
6:preparing to game	'3.36'	'4.38'	'3.63'	'4.95'	'0.05'	'0.31'	'0.81'	'0.00'	'00:00:07'	'70.53'	'0.01'	'0.02'	'51.43'
7:playing game	'-1.06'	'2.93'	'3.92'	'4.06'	'0.04'	'0.72'	'0.20'	'0.00'	'00:01:02'	'69.77'	'0.01'	'0.04'	'58.49'
8:sitting still 60s	'0.86'	'2.97'	'3.94'	'4.04'	'0.04'	'0.71'	'0.21'	'0.00'	'00:01:02'	'73.63'	'0.01'	'0.03'	'8.03'

5.4. Experiment results (plots)



Rozdział 6. video 2, G, AR_ROI1

6.1. Experiment details

Experiment name : video 2, G, AR_ROI1

Date : 26-Nov-2018 13:44:37

Camera : RGBRealSense

- relal/target fps = 59.5/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set4

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-g-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

6.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '
video_2_G_AR_ROI1_(5)	'-10.03'	'11.64'	'13.68'	'16.97'	'0.12'	'0.30'	'0.19'	'0.00'	'00:05:05'	'86.44'	'0.12'	'0.03'	'41.14'

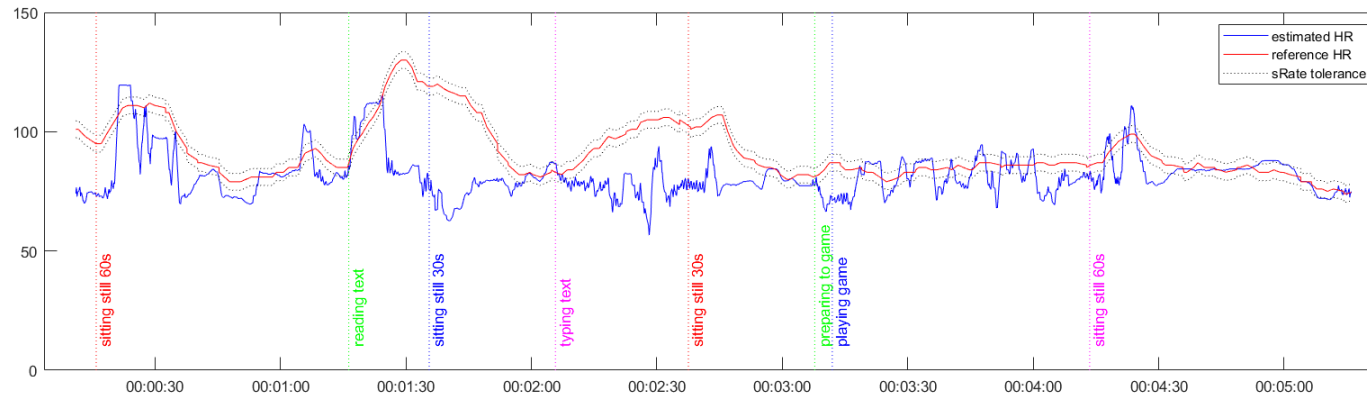
6.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '

Rozdział 6. video 2, G, AR_ROI1

1:sitting still 60s	'-7.43'	'9.30'	'9.26'	'11.87'	'0.10'	'0.28'	'0.69'	'0.00'	'00:01:00'	'92.87'	'0.01'	'0.01'	'14.13'
2:reading text	'-21.35'	'25.37'	'23.24'	'31.55'	'0.21'	'0.16'	'-0.66'	'0.00'	'00:00:19'	'91.44'	'0.01'	'0.01'	'23.83'
3:sitting still 30s	'-22.48'	'23.01'	'19.79'	'29.95'	'0.21'	'0.23'	'-0.74'	'0.00'	'00:00:30'	'89.07'	'0.01'	'0.02'	'42.23'
4:typing text	'-20.19'	'20.26'	'10.72'	'22.86'	'0.20'	'0.07'	'-0.23'	'0.00'	'00:00:32'	'64.71'	'0.01'	'0.04'	'16.91'
5:sitting still 30s	'-11.87'	'11.90'	'10.11'	'15.59'	'0.12'	'0.27'	'-0.01'	'0.81'	'00:00:30'	'92.20'	'0.01'	'0.01'	'7.91'
6:preparing to game	'-11.45'	'11.45'	'5.50'	'12.70'	'0.13'	'0.10'	'-0.68'	'0.00'	'00:00:04'	'80.17'	'0.01'	'0.03'	'14.18'
7:playing game	'-4.05'	'6.41'	'6.56'	'7.71'	'0.08'	'0.29'	'0.00'	'0.88'	'00:01:02'	'75.96'	'0.01'	'0.04'	'31.52'
8:sitting still 60s	'-1.70'	'3.83'	'5.18'	'5.46'	'0.04'	'0.59'	'0.69'	'0.00'	'00:01:03'	'95.76'	'0.01'	'0.02'	'52.73'

6.4. Experiment results (plots)



Rozdział 7. video 2, GRD, AR_ROI1

7.1. Experiment details

Experiment name : video 2, GRD, AR_ROI1

Date : 26-Nov-2018 13:44:37

Camera : RGBRealSense

- relal/target fps = 59.5/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set4

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-gr-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

7.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	' [bpm] '	' [bpm] '	' [bpm] '	' [bpm] '	' [%] '	' [%] '	' '	' '	' [hh:mm:ss] '	' [lux] '	' G '	' '	' '
video_2_GRD_AR_ROI1_(6)	'-6.11'	'7.65'	'9.21'	'11.05'	'0.08'	'0.45'	'0.65'	'0.00'	'00:05:05'	'86.44'	'0.12'	'0.03'	'41.14'

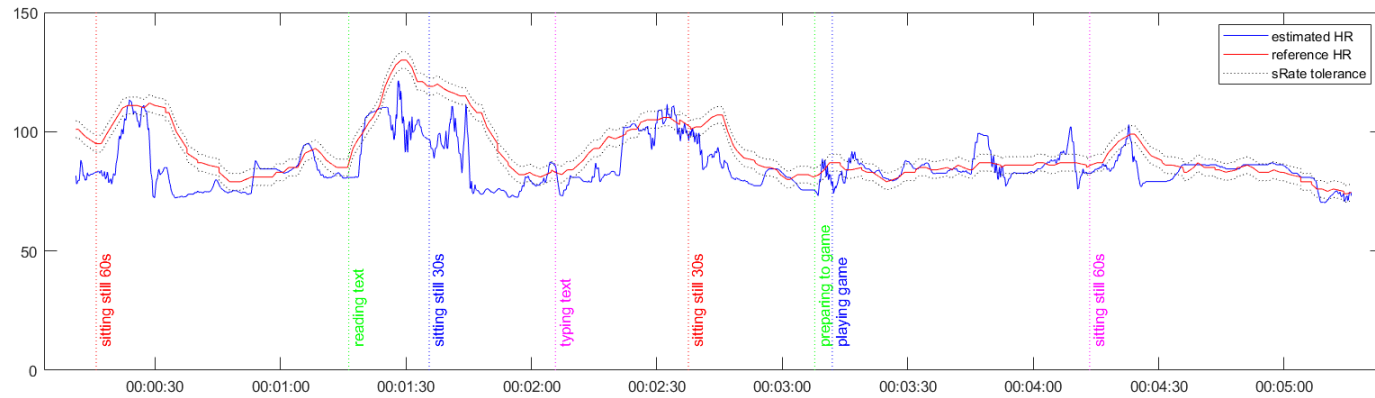
7.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	' [bpm] '	' [bpm] '	' [bpm] '	' [bpm] '	' [%] '	' [%] '	' '	' '	' [hh:mm:ss] '	' [lux] '	' G '	' '	' '

Rozdział 7. video 2, GRD, AR_ROI1

1:sitting still 60s	'-8.63'	'9.68'	'10.09'	'13.28'	'0.10'	'0.29'	'0.55'	'0.00'	'00:01:00'	'92.87'	'0.01'	'0.01'	'14.13'
2:reading text	'-13.60'	'14.45'	'11.00'	'17.48'	'0.12'	'0.20'	'0.54'	'0.00'	'00:00:19'	'91.44'	'0.01'	'0.01'	'23.83'
3:sitting still 30s	'-15.62'	'15.99'	'11.13'	'19.18'	'0.15'	'0.17'	'0.67'	'0.00'	'00:00:30'	'89.07'	'0.01'	'0.02'	'42.23'
4:typing text	'-5.42'	'6.54'	'5.99'	'8.07'	'0.07'	'0.37'	'0.87'	'0.00'	'00:00:32'	'64.71'	'0.01'	'0.04'	'16.91'
5:sitting still 30s	'-7.93'	'8.17'	'6.35'	'10.16'	'0.09'	'0.30'	'0.75'	'0.00'	'00:00:30'	'92.20'	'0.01'	'0.01'	'7.91'
6:preparing to game	'-3.39'	'4.54'	'3.96'	'5.21'	'0.05'	'0.40'	'0.43'	'0.00'	'00:00:04'	'80.17'	'0.01'	'0.03'	'14.18'
7:playing game	'0.23'	'3.37'	'4.61'	'4.62'	'0.04'	'0.70'	'0.35'	'0.00'	'00:01:02'	'75.96'	'0.01'	'0.04'	'31.52'
8:sitting still 60s	'-1.88'	'3.64'	'4.85'	'5.20'	'0.04'	'0.73'	'0.65'	'0.00'	'00:01:03'	'95.76'	'0.01'	'0.02'	'52.73'

7.4. Experiment results (plots)



Rozdział 8. video 2, ExG, AR_ROI1

8.1. Experiment details

Experiment name : video 2, ExG, AR_ROI1

Date : 26-Nov-2018 13:44:37

Camera : RGBRealSense

- relal/target fps = 59.5/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set4

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-exg-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

8.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	' [bpm] '	' [bpm] '	' [bpm] '	' [bpm] '	' [%] '	' [%] '	' '	' '	' [hh:mm:ss] '	' [lux] '	' G '	' '	' '
video_2_ExG_AR_ROI1_(7)	'-6.55'	'7.96'	'9.61'	'11.63'	'0.08'	'0.44'	'0.61'	'0.00'	'00:05:05'	'86.44'	'0.12'	'0.03'	'41.14'

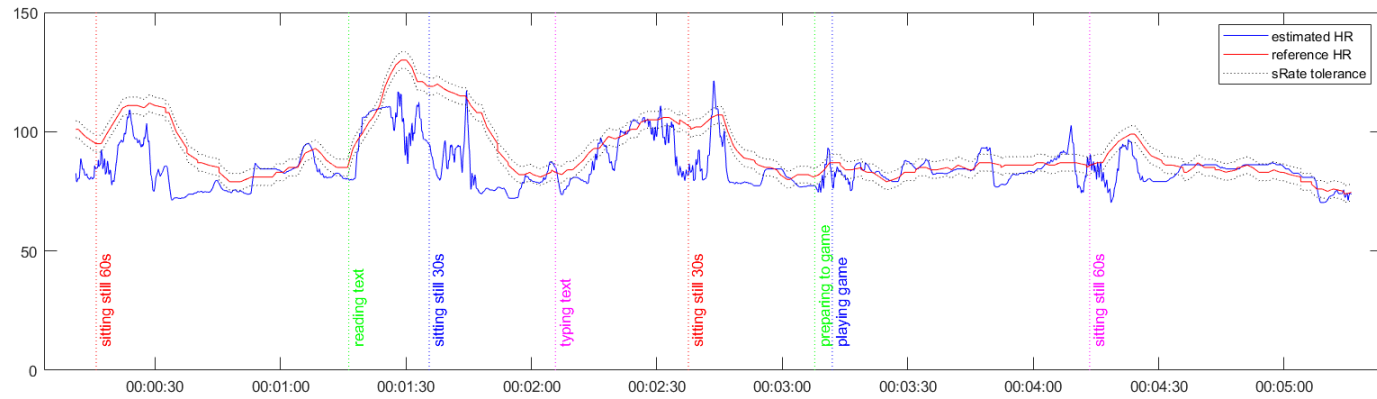
8.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	' [bpm] '	' [bpm] '	' [bpm] '	' [bpm] '	' [%] '	' [%] '	' '	' '	' [hh:mm:ss] '	' [lux] '	' G '	' '	' '

Rozdział 8. video 2, ExG, AR_ROI1

1:sitting still 60s	'-9.35'	'10.30'	'9.90'	'13.62'	'0.11'	'0.25'	'0.50'	'0.00'	'00:01:00'	'92.87'	'0.01'	'0.01'	'14.13'
2:reading text	'-12.56'	'14.03'	'12.10'	'17.43'	'0.12'	'0.17'	'0.43'	'0.00'	'00:00:19'	'91.44'	'0.01'	'0.01'	'23.83'
3:sitting still 30s	'-17.02'	'17.43'	'12.57'	'21.15'	'0.16'	'0.25'	'0.55'	'0.00'	'00:00:30'	'89.07'	'0.01'	'0.02'	'42.23'
4:typing text	'-5.48'	'6.36'	'6.67'	'8.63'	'0.07'	'0.40'	'0.76'	'0.00'	'00:00:32'	'64.71'	'0.01'	'0.04'	'16.91'
5:sitting still 30s	'-7.52'	'8.51'	'7.79'	'10.83'	'0.09'	'0.30'	'0.65'	'0.00'	'00:00:30'	'92.20'	'0.01'	'0.01'	'7.91'
6:preparing to game	'-2.31'	'4.47'	'4.38'	'4.95'	'0.05'	'0.32'	'0.81'	'0.00'	'00:00:04'	'80.17'	'0.01'	'0.03'	'14.18'
7:playing game	'-0.72'	'3.25'	'4.23'	'4.30'	'0.04'	'0.67'	'0.33'	'0.00'	'00:01:02'	'75.96'	'0.01'	'0.04'	'31.52'
8:sitting still 60s	'-2.31'	'4.08'	'5.61'	'6.07'	'0.05'	'0.70'	'0.53'	'0.00'	'00:01:03'	'95.76'	'0.01'	'0.02'	'52.73'

8.4. Experiment results (plots)



Rozdział 9. video 2, ICA, AR_ROI1

9.1. Experiment details

Experiment name : video 2, ICA, AR_ROI1

Date : 26-Nov-2018 13:44:37

Camera : RGBRealSense

- relal/target fps = 59.5/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set4

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-ica-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

9.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	' [bpm] '	' [bpm] '	' [bpm] '	' [bpm] '	' [%] '	' [%] '	' '	' '	' [hh:mm:ss] '	' [lux] '	' G '	' '	' '
video_2_ICA_AR_ROI1_(8)	'-6.72'	'8.89'	'11.13'	'13.00'	'0.09'	'0.37'	'0.43'	'0.00'	'00:05:05'	'86.44'	'0.12'	'0.03'	'41.14'

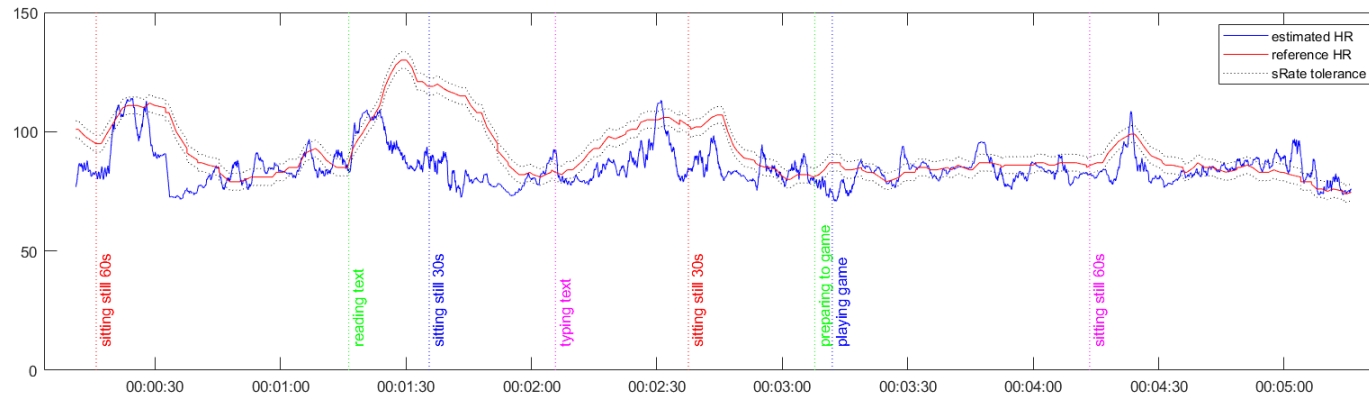
9.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	' [bpm] '	' [bpm] '	' [bpm] '	' [bpm] '	' [%] '	' [%] '	' '	' '	' [hh:mm:ss] '	' [lux] '	' G '	' '	' '

Rozdział 9. video 2, ICA, AR_ROI1

1:sitting still 60s	'-5.59'	'7.91'	'9.68'	'11.18'	'0.08'	'0.40'	'0.59'	'0.00'	'00:01:00'	'92.87'	'0.01'	'0.01'	'14.13'
2:reading text	'-19.14'	'21.58'	'18.81'	'26.84'	'0.18'	'0.19'	'-0.55'	'0.00'	'00:00:19'	'91.44'	'0.01'	'0.01'	'23.83'
3:sitting still 30s	'-18.46'	'19.41'	'14.50'	'23.47'	'0.18'	'0.17'	'0.26'	'0.00'	'00:00:30'	'89.07'	'0.01'	'0.02'	'42.23'
4:typing text	'-9.83'	'10.69'	'6.84'	'11.97'	'0.11'	'0.08'	'0.65'	'0.00'	'00:00:32'	'64.71'	'0.01'	'0.04'	'16.91'
5:sitting still 30s	'-6.98'	'8.73'	'8.63'	'11.09'	'0.09'	'0.31'	'0.42'	'0.00'	'00:00:30'	'92.20'	'0.01'	'0.01'	'7.91'
6:preparing to game	'-7.21'	'7.21'	'4.00'	'8.24'	'0.08'	'0.23'	'-0.72'	'0.00'	'00:00:04'	'80.17'	'0.01'	'0.03'	'14.18'
7:playing game	'-1.64'	'3.79'	'4.75'	'5.03'	'0.04'	'0.62'	'0.11'	'0.00'	'00:01:02'	'75.96'	'0.01'	'0.04'	'31.52'
8:sitting still 60s	'-0.99'	'4.75'	'6.04'	'6.12'	'0.05'	'0.48'	'0.47'	'0.00'	'00:01:03'	'95.76'	'0.01'	'0.02'	'52.73'

9.4. Experiment results (plots)



Rozdział 10. video 3, G, AR_ROI1

10.1. Experiment details

Experiment name : video 3, G, AR_ROI1

Date : 21-Nov-2018 10:21:43

Camera : RGBRealSense

- relal/target fps = 59.5/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set4

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-g-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

10.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '
video_3_G_AR_ROI1_(9)	'5.70'	'8.97'	'14.53'	'15.61'	'0.12'	'0.48'	'-0.03'	'0.00'	'00:05:42'	'40.03'	'0.11'	'0.08'	'26.33'

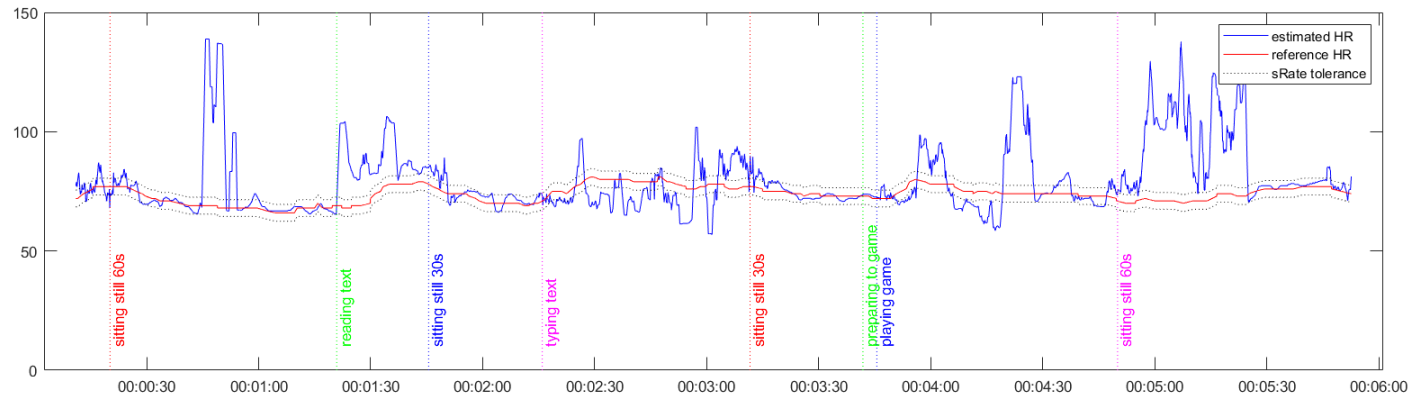
10.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '

Rozdział 10. video 3, G, AR_ROI1

1:sitting still 60s	'6.44'	'7.72'	'17.53'	'18.67'	'0.11'	'0.77'	'0.05'	'0.01'	'00:01:01'	'43.90'	'0.01'	'0.02'	'11.57'
2:reading text	'14.51'	'14.51'	'9.12'	'17.14'	'0.20'	'0.04'	'0.01'	'0.66'	'00:00:25'	'43.00'	'0.01'	'0.03'	'57.22'
3:sitting still 30s	'1.90'	'2.85'	'3.07'	'3.61'	'0.04'	'0.73'	'0.78'	'0.00'	'00:00:30'	'42.93'	'0.01'	'0.05'	'35.41'
4:typing text	'-2.36'	'8.19'	'9.49'	'9.78'	'0.11'	'0.22'	'-0.08'	'0.00'	'00:00:56'	'38.66'	'0.01'	'0.11'	'36.75'
5:sitting still 30s	'0.70'	'2.03'	'2.66'	'2.75'	'0.03'	'0.81'	'0.88'	'0.00'	'00:00:30'	'40.22'	'0.01'	'0.02'	'6.42'
6:preparing to game	'0.80'	'0.80'	'0.15'	'0.82'	'0.01'	'1.00'	'0.96'	'0.00'	'00:00:04'	'40.41'	'0.01'	'0.01'	'5.72'
7:playing game	'3.48'	'8.95'	'13.54'	'13.98'	'0.12'	'0.32'	'0.16'	'0.00'	'00:01:04'	'34.92'	'0.01'	'0.07'	'28.89'
8:sitting still 60s	'16.16'	'16.35'	'17.78'	'24.03'	'0.23'	'0.42'	'-0.50'	'0.00'	'00:01:03'	'39.51'	'0.01'	'0.04'	'59.87'

10.4. Experiment results (plots)



Rozdział 11. video 3, GRD, AR_ROI1

11.1. Experiment details

Experiment name : video 3, GRD, AR_ROI1

Date : 21-Nov-2018 10:21:43

Camera : RGBRealSense

- relal/target fps = 59.5/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set4

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-gr-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

11.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '
video_3_GRD_AR_ROI1_(10)	'6.19'	'9.49'	'14.01'	'15.32'	'0.13'	'0.45'	'0.05'	'0.00'	'00:05:42'	'40.03'	'0.11'	'0.08'	'26.33'

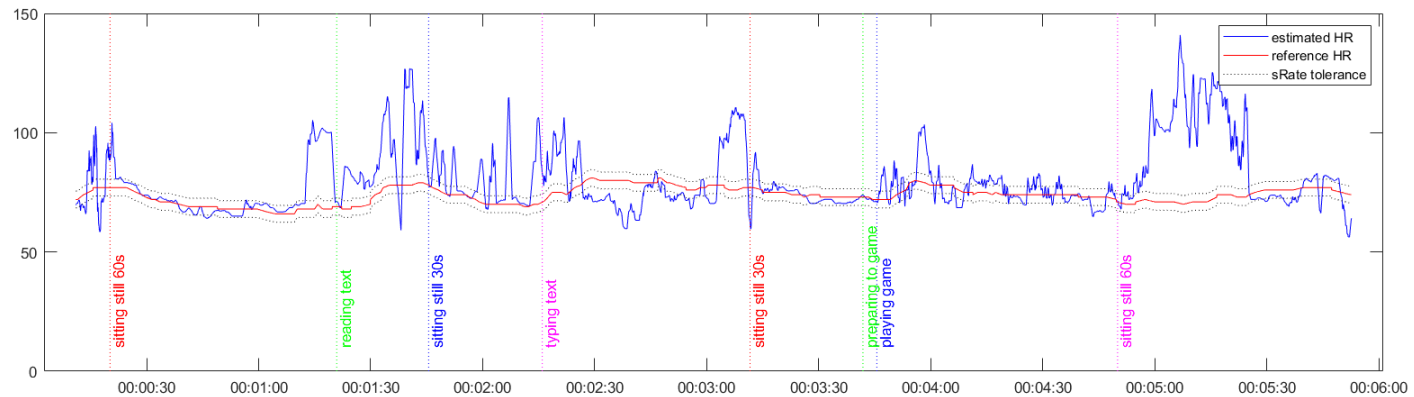
11.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '

Rozdział 11. video 3, GRD, AR_ROI1

1:sitting still 60s	'4.40'	'5.70'	'10.14'	'11.05'	'0.08'	'0.78'	'0.26'	'0.00'	'00:01:01'	'43.90'	'0.01'	'0.02'	'11.57'
2:reading text	'16.53'	'17.50'	'13.76'	'21.50'	'0.23'	'0.08'	'0.61'	'0.00'	'00:00:25'	'43.00'	'0.01'	'0.03'	'57.22'
3:sitting still 30s	'8.05'	'8.19'	'9.89'	'12.75'	'0.11'	'0.53'	'0.13'	'0.00'	'00:00:30'	'42.93'	'0.01'	'0.05'	'35.41'
4:typing text	'1.59'	'10.91'	'13.68'	'13.77'	'0.14'	'0.18'	'-0.51'	'0.00'	'00:00:56'	'38.66'	'0.01'	'0.11'	'36.75'
5:sitting still 30s	'-0.13'	'2.38'	'3.58'	'3.58'	'0.03'	'0.85'	'0.63'	'0.00'	'00:00:30'	'40.22'	'0.01'	'0.02'	'6.42'
6:preparing to game	'-0.46'	'0.60'	'0.49'	'0.67'	'0.01'	'1.00'	'0.82'	'0.00'	'00:00:04'	'40.41'	'0.01'	'0.01'	'5.72'
7:playing game	'1.57'	'4.40'	'5.94'	'6.14'	'0.06'	'0.51'	'0.45'	'0.00'	'00:01:04'	'34.92'	'0.01'	'0.07'	'28.89'
8:sitting still 60s	'15.88'	'18.72'	'20.48'	'25.91'	'0.26'	'0.24'	'-0.55'	'0.00'	'00:01:03'	'39.51'	'0.01'	'0.04'	'59.87'

11.4. Experiment results (plots)



Rozdział 12. video 3, ExG, AR_ROI1

12.1. Experiment details

Experiment name : video 3, ExG, AR_ROI1

Date : 21-Nov-2018 10:21:43

Camera : RGBRealSense

- relal/target fps = 59.5/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set4

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-exg-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

12.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '
video_3_ExG_AR_ROI1_(11)	'3.88'	'6.54'	'11.58'	'12.22'	'0.09'	'0.61'	'0.10'	'0.00'	'00:05:42'	'40.03'	'0.11'	'0.08'	'26.33'

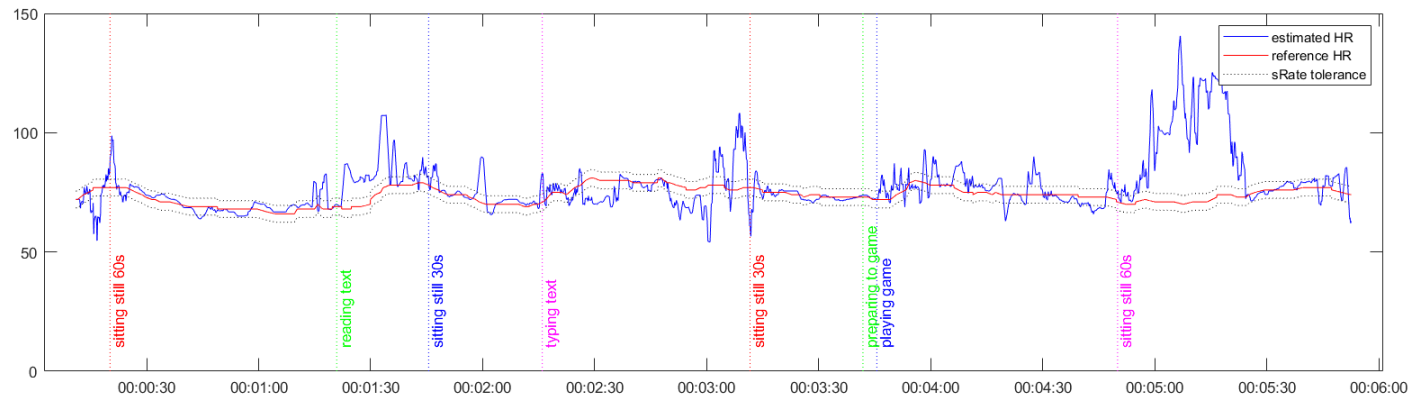
12.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '

Rozdział 12. video 3, ExG, AR_ROI1

1:sitting still 60s	'1.09'	'2.50'	'3.77'	'3.92'	'0.04'	'0.86'	'0.68'	'0.00'	'00:01:01'	'43.90'	'0.01'	'0.02'	'11.57'
2:reading text	'9.60'	'9.67'	'7.94'	'12.46'	'0.13'	'0.29'	'0.32'	'0.00'	'00:00:25'	'43.00'	'0.01'	'0.03'	'57.22'
3:sitting still 30s	'2.01'	'2.79'	'4.49'	'4.92'	'0.04'	'0.80'	'0.49'	'0.00'	'00:00:30'	'42.93'	'0.01'	'0.05'	'35.41'
4:typing text	'-1.48'	'6.47'	'8.79'	'8.91'	'0.08'	'0.44'	'-0.05'	'0.00'	'00:00:56'	'38.66'	'0.01'	'0.11'	'36.75'
5:sitting still 30s	'-0.55'	'1.64'	'2.82'	'2.87'	'0.02'	'0.94'	'0.28'	'0.00'	'00:00:30'	'40.22'	'0.01'	'0.02'	'6.42'
6:preparing to game	'0.45'	'0.45'	'0.29'	'0.53'	'0.01'	'1.00'	'0.95'	'0.00'	'00:00:04'	'40.41'	'0.01'	'0.01'	'5.72'
7:playing game	'1.43'	'3.92'	'4.85'	'5.05'	'0.05'	'0.58'	'0.42'	'0.00'	'00:01:04'	'34.92'	'0.01'	'0.07'	'28.89'
8:sitting still 60s	'15.95'	'16.72'	'19.07'	'24.86'	'0.23'	'0.40'	'-0.50'	'0.00'	'00:01:03'	'39.51'	'0.01'	'0.04'	'59.87'

12.4. Experiment results (plots)



Rozdział 13. video 3, ICA, AR_ROI1

13.1. Experiment details

Experiment name : video 3, ICA, AR_ROI1

Date : 21-Nov-2018 10:21:43

Camera : RGBRealSense

- relal/target fps = 59.5/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set4

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-ica-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

13.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '
video_3_ICA_AR_ROI1_(12)	'2.51'	'3.34'	'4.31'	'4.99'	'0.05'	'0.68'	'0.52'	'0.00'	'00:05:42'	'40.03'	'0.11'	'0.08'	'26.33'

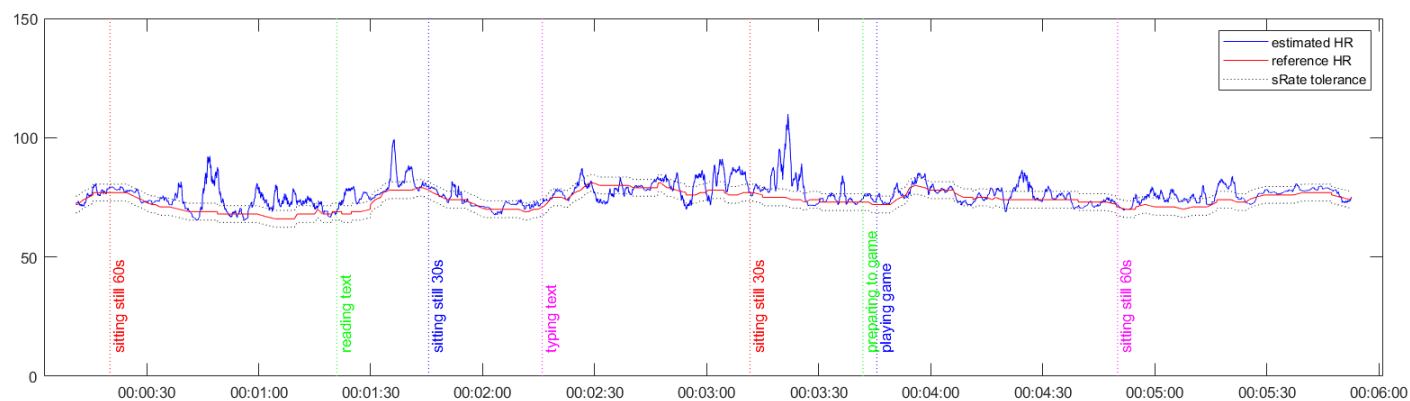
13.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '

Rozdział 13. video 3, ICA, AR_ROI1

1:sitting still 60s	'4.03'	'4.44'	'4.79'	'6.26'	'0.06'	'0.55'	'0.33'	'0.00'	'00:01:01'	'43.90'	'0.01'	'0.02'	'11.57'
2:reading text	'4.90'	'4.94'	'4.38'	'6.57'	'0.07'	'0.47'	'0.61'	'0.00'	'00:00:25'	'43.00'	'0.01'	'0.03'	'57.22'
3:sitting still 30s	'1.14'	'1.68'	'1.78'	'2.11'	'0.02'	'0.93'	'0.81'	'0.00'	'00:00:30'	'42.93'	'0.01'	'0.05'	'35.41'
4:typing text	'1.47'	'3.68'	'4.59'	'4.81'	'0.05'	'0.59'	'0.13'	'0.00'	'00:00:56'	'38.66'	'0.01'	'0.11'	'36.75'
5:sitting still 30s	'4.79'	'5.36'	'7.18'	'8.63'	'0.07'	'0.64'	'0.36'	'0.00'	'00:00:30'	'40.22'	'0.01'	'0.02'	'6.42'
6:preparing to game	'2.38'	'2.38'	'0.84'	'2.52'	'0.03'	'0.89'	'0.83'	'0.00'	'00:00:04'	'40.41'	'0.01'	'0.01'	'5.72'
7:playing game	'1.12'	'2.29'	'2.94'	'3.15'	'0.03'	'0.79'	'0.57'	'0.00'	'00:01:04'	'34.92'	'0.01'	'0.07'	'28.89'
8:sitting still 60s	'2.38'	'2.63'	'2.40'	'3.37'	'0.04'	'0.72'	'0.60'	'0.00'	'00:01:03'	'39.51'	'0.01'	'0.04'	'59.87'

13.4. Experiment results (plots)



Rozdział 14. video 4, G, AR_ROI1

14.1. Experiment details

Experiment name : video 4, G, AR_ROI1

Date : 22-Nov-2018 12:48:09

Camera : RGBRealSense

- relal/target fps = 59.5/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set4

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-g-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

14.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '
video_4_G_AR_ROI1_(13)	'3.82'	'5.61'	'7.75'	'8.64'	'0.08'	'0.57'	'0.19'	'0.00'	'00:05:31'	'54.17'	'0.11'	'0.03'	'103.15'

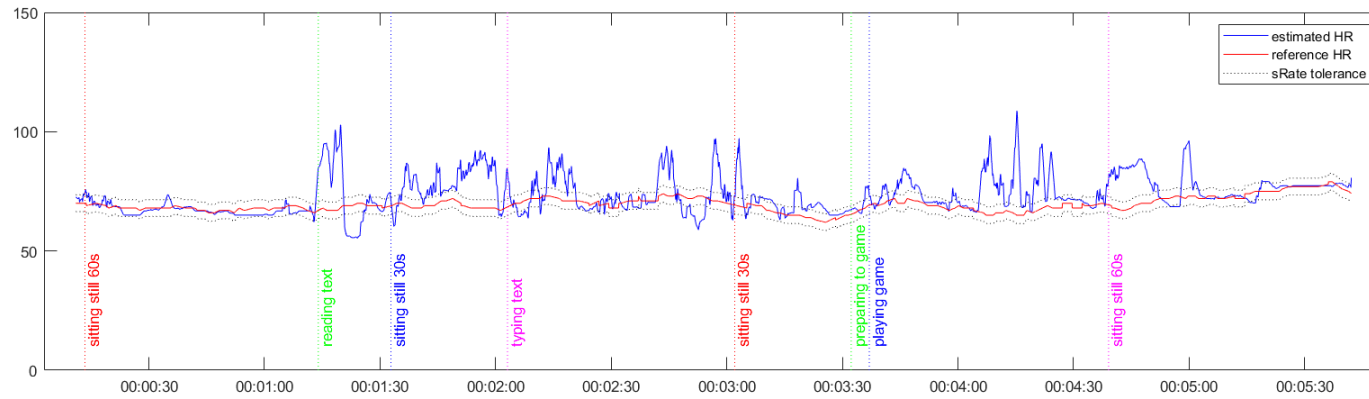
14.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '

Rozdział 14. video 4, G, AR_ROI1

1:sitting still 60s	'-0.55'	'1.65'	'2.26'	'2.32'	'0.02'	'0.93'	'0.41'	'0.00'	'00:01:01'	'60.22'	'0.01'	'0.01'	'2.82'
2:reading text	'5.10'	'12.05'	'14.62'	'15.48'	'0.18'	'0.31'	'-0.82'	'0.00'	'00:00:19'	'59.27'	'0.01'	'0.02'	'29.37'
3:sitting still 30s	'9.66'	'10.34'	'7.51'	'12.24'	'0.15'	'0.16'	'-0.21'	'0.00'	'00:00:30'	'58.22'	'0.01'	'0.03'	'21.75'
4:typing text	'2.21'	'5.91'	'7.68'	'7.99'	'0.08'	'0.47'	'0.25'	'0.00'	'00:00:59'	'57.53'	'0.01'	'0.09'	'265.75'
5:sitting still 30s	'4.07'	'4.47'	'4.79'	'6.29'	'0.07'	'0.51'	'0.47'	'0.00'	'00:00:30'	'54.28'	'0.01'	'0.01'	'3.02'
6:preparing to game	'2.52'	'3.06'	'3.25'	'4.11'	'0.05'	'0.75'	'0.74'	'0.00'	'00:00:05'	'50.94'	'0.01'	'0.01'	'4.13'
7:playing game	'6.33'	'6.50'	'7.75'	'10.00'	'0.10'	'0.51'	'-0.27'	'0.00'	'00:01:02'	'45.90'	'0.01'	'0.05'	'18.59'
8:sitting still 60s	'3.89'	'4.91'	'7.02'	'8.03'	'0.07'	'0.62'	'-0.29'	'0.00'	'00:01:03'	'49.77'	'0.01'	'0.02'	'9.77'

14.4. Experiment results (plots)



Rozdział 15. video 4, GRD, AR_ROI1

15.1. Experiment details

Experiment name : video 4, GRD, AR_ROI1

Date : 22-Nov-2018 12:48:09

Camera : RGBRealSense

- relal/target fps = 59.5/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set4

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-gr-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

15.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '
video_4_GRD_AR_ROI1_(14)	'5.17'	'6.98'	'11.21'	'12.35'	'0.10'	'0.57'	'0.23'	'0.00'	'00:05:31'	'54.17'	'0.11'	'0.03'	'103.15'

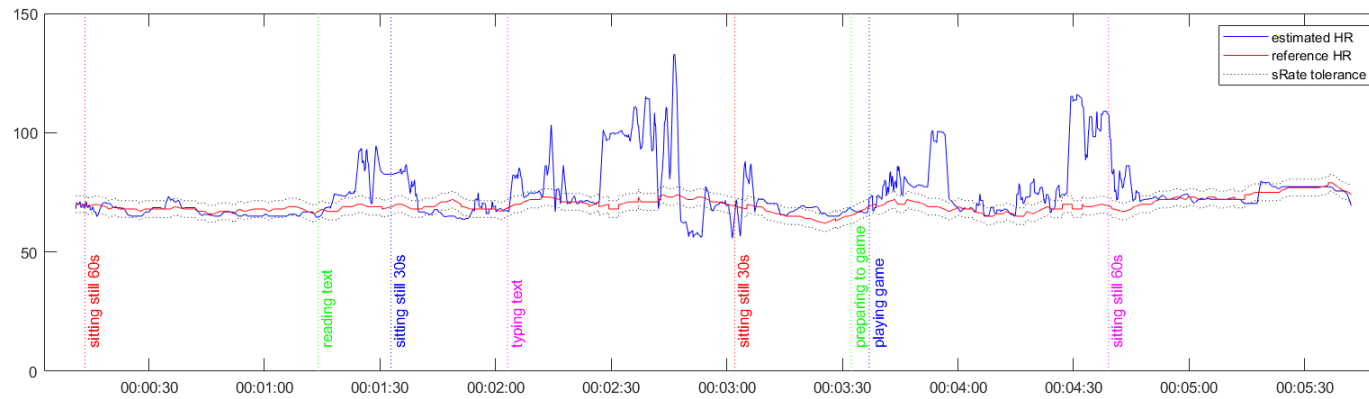
15.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '

Rozdział 15. video 4, GRD, AR_ROI1

1:sitting still 60s	'-0.94'	'1.68'	'1.84'	'2.06'	'0.02'	'0.94'	'0.40'	'0.00'	'00:01:01'	'60.22'	'0.01'	'0.01'	'2.82'
2:reading text	'9.57'	'9.87'	'7.52'	'12.17'	'0.14'	'0.21'	'0.68'	'0.00'	'00:00:19'	'59.27'	'0.01'	'0.02'	'29.37'
3:sitting still 30s	'1.05'	'5.12'	'6.72'	'6.80'	'0.07'	'0.48'	'-0.07'	'0.00'	'00:00:30'	'58.22'	'0.01'	'0.03'	'21.75'
4:typing text	'10.29'	'13.83'	'16.56'	'19.50'	'0.19'	'0.37'	'-0.06'	'0.00'	'00:00:59'	'57.53'	'0.01'	'0.09'	'265.75'
5:sitting still 30s	'3.41'	'4.01'	'4.08'	'5.31'	'0.06'	'0.55'	'0.56'	'0.00'	'00:00:30'	'54.28'	'0.01'	'0.01'	'3.02'
6:preparing to game	'-0.02'	'1.15'	'1.39'	'1.39'	'0.02'	'0.99'	'0.14'	'0.02'	'00:00:05'	'50.94'	'0.01'	'0.01'	'4.13'
7:playing game	'11.94'	'12.10'	'13.87'	'18.30'	'0.18'	'0.31'	'0.35'	'0.00'	'00:01:02'	'45.90'	'0.01'	'0.05'	'18.59'
8:sitting still 60s	'1.66'	'2.72'	'5.27'	'5.53'	'0.04'	'0.79'	'-0.00'	'0.87'	'00:01:03'	'49.77'	'0.01'	'0.02'	'9.77'

15.4. Experiment results (plots)



Rozdział 16. video 4, ExG, AR_ROI1

16.1. Experiment details

Experiment name : video 4, ExG, AR_ROI1

Date : 22-Nov-2018 12:48:09

Camera : RGBRealSense

- relal/target fps = 59.5/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set4

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-exg-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

16.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '
video_4_ExG_AR_ROI1_(15)	'2.26'	'4.07'	'6.60'	'6.97'	'0.06'	'0.69'	'0.38'	'0.00'	'00:05:31'	'54.17'	'0.11'	'0.03'	'103.15'

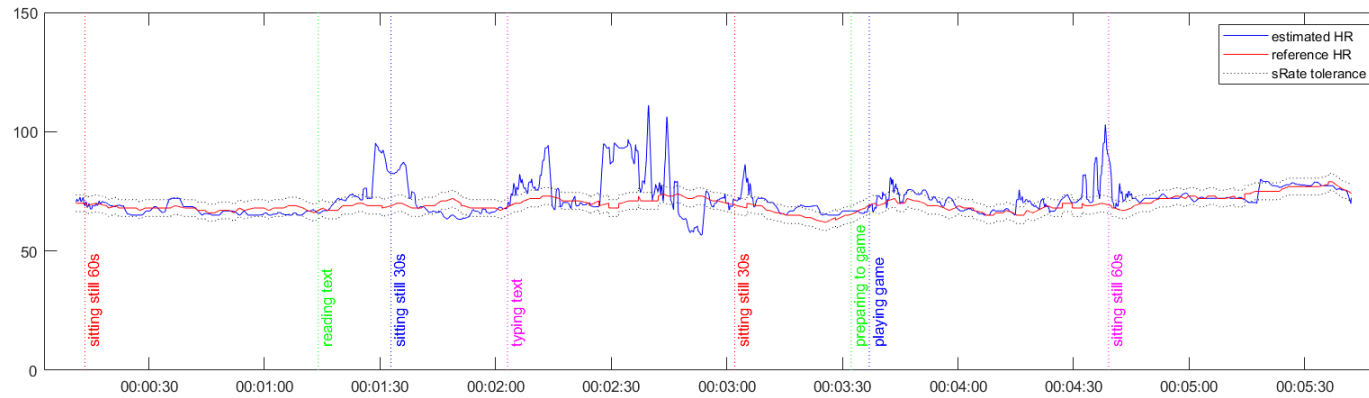
16.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '

Rozdział 16. video 4, ExG, AR_ROI1

1:sitting still 60s	'-0.86'	'1.59'	'1.75'	'1.95'	'0.02'	'0.95'	'0.48'	'0.00'	'00:01:01'	'60.22'	'0.01'	'0.01'	'2.82'
2:reading text	'7.01'	'7.24'	'8.12'	'10.72'	'0.11'	'0.50'	'0.32'	'0.00'	'00:00:19'	'59.27'	'0.01'	'0.02'	'29.37'
3:sitting still 30s	'0.23'	'4.85'	'6.71'	'6.72'	'0.07'	'0.51'	'0.00'	'0.85'	'00:00:30'	'58.22'	'0.01'	'0.03'	'21.75'
4:typing text	'5.23'	'8.84'	'11.20'	'12.36'	'0.12'	'0.39'	'-0.22'	'0.00'	'00:00:59'	'57.53'	'0.01'	'0.09'	'265.75'
5:sitting still 30s	'3.38'	'3.41'	'2.81'	'4.40'	'0.05'	'0.64'	'0.73'	'0.00'	'00:00:30'	'54.28'	'0.01'	'0.01'	'3.02'
6:preparing to game	'-0.60'	'1.21'	'1.24'	'1.37'	'0.02'	'1.00'	'0.13'	'0.03'	'00:00:05'	'50.94'	'0.01'	'0.01'	'4.13'
7:playing game	'3.14'	'3.53'	'4.98'	'5.89'	'0.05'	'0.67'	'0.51'	'0.00'	'00:01:02'	'45.90'	'0.01'	'0.05'	'18.59'
8:sitting still 60s	'0.87'	'1.82'	'2.87'	'2.99'	'0.03'	'0.85'	'0.57'	'0.00'	'00:01:03'	'49.77'	'0.01'	'0.02'	'9.77'

16.4. Experiment results (plots)



Rozdział 17. video 4, ICA, AR_ROI1

17.1. Experiment details

Experiment name : video 4, ICA, AR_ROI1

Date : 22-Nov-2018 12:48:09

Camera : RGBRealSense

- relal/target fps = 59.5/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set4

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-ica-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

17.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '
video_4_ICA_AR_ROI1_(16)	'4.14'	'4.51'	'3.98'	'5.74'	'0.07'	'0.47'	'0.49'	'0.00'	'00:05:31'	'54.17'	'0.11'	'0.03'	'103.15'

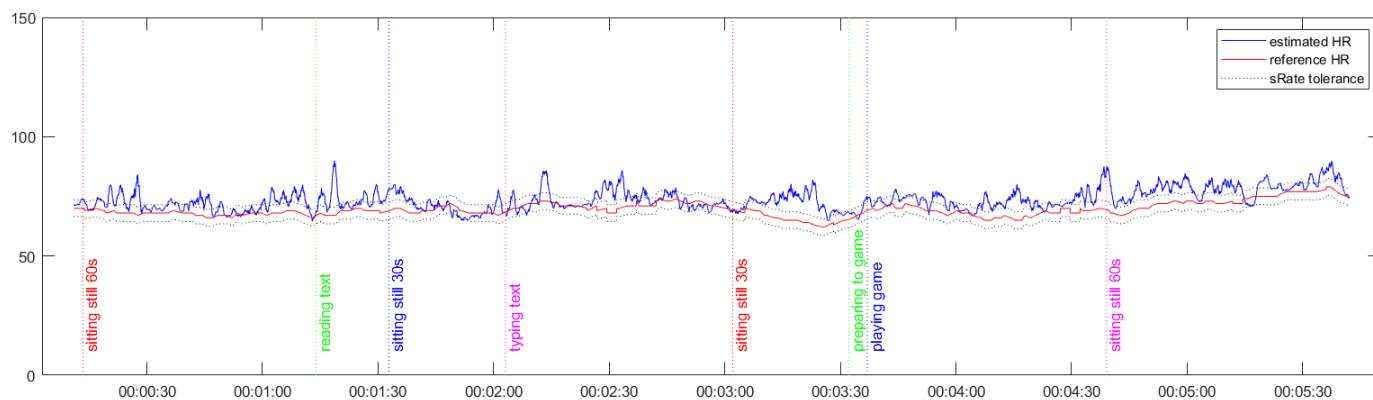
17.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '

Rozdział 17. video 4, ICA, AR_ROI1

1:sitting still 60s	'3.86'	'3.95'	'3.21'	'5.02'	'0.06'	'0.52'	'0.25'	'0.00'	'00:01:01'	'60.22'	'0.01'	'0.01'	'2.82'
2:reading text	'5.45'	'5.45'	'4.61'	'7.13'	'0.08'	'0.43'	'-0.35'	'0.00'	'00:00:19'	'59.27'	'0.01'	'0.02'	'29.37'
3:sitting still 30s	'1.74'	'3.16'	'3.81'	'4.18'	'0.05'	'0.65'	'0.15'	'0.00'	'00:00:30'	'58.22'	'0.01'	'0.03'	'21.75'
4:typing text	'2.30'	'3.18'	'4.07'	'4.67'	'0.04'	'0.71'	'0.01'	'0.53'	'00:00:59'	'57.53'	'0.01'	'0.09'	'265.75'
5:sitting still 30s	'6.73'	'6.77'	'4.35'	'8.01'	'0.10'	'0.27'	'-0.04'	'0.06'	'00:00:30'	'54.28'	'0.01'	'0.01'	'3.02'
6:preparing to game	'1.65'	'2.22'	'2.16'	'2.71'	'0.03'	'0.78'	'0.68'	'0.00'	'00:00:05'	'50.94'	'0.01'	'0.01'	'4.13'
7:playing game	'4.71'	'4.75'	'3.38'	'5.79'	'0.07'	'0.41'	'0.19'	'0.00'	'00:01:02'	'45.90'	'0.01'	'0.05'	'18.59'
8:sitting still 60s	'5.34'	'5.60'	'3.42'	'6.34'	'0.08'	'0.27'	'0.52'	'0.00'	'00:01:03'	'49.77'	'0.01'	'0.02'	'9.77'

17.4. Experiment results (plots)



Rozdział 18. video 5, G, AR_ROI1

18.1. Experiment details

Experiment name : video 5, G, AR_ROI1

Date : 30-Jan-2019 13:33:36

Camera : RGBRealSense

- relal/target fps = 59.5/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set4B

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-g-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

18.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '
video_5_G_AR_ROI1_(17)	'-0.42'	'2.49'	'3.87'	'3.90'	'0.03'	'0.80'	'0.52'	'0.00'	'00:06:00'	'964.84'	'0.12'	'0.02'	'160.19'

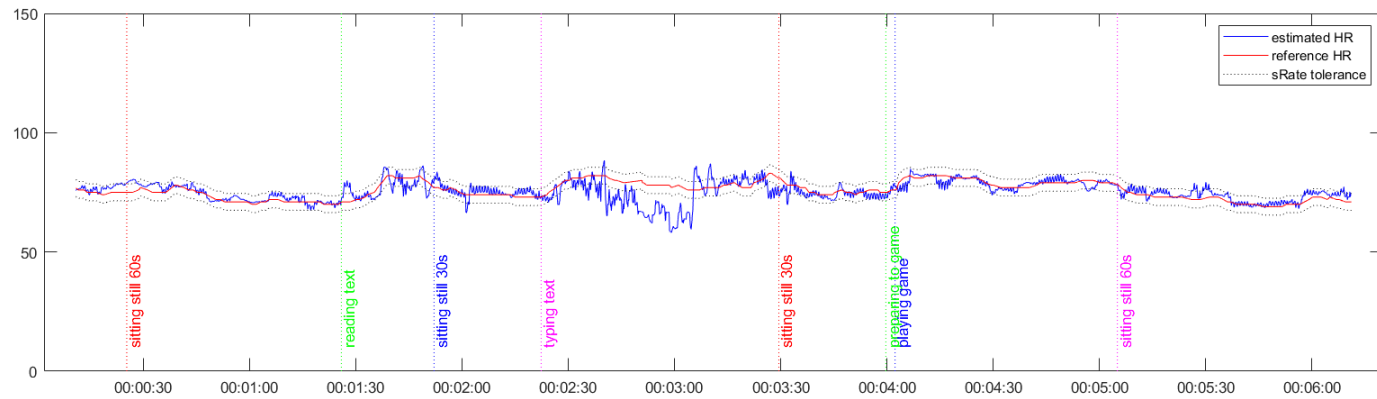
18.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '

Rozdział 18. video 5, G, AR_ROI1

1:sitting still 60s	'1.03'	'1.41'	'1.53'	'1.85'	'0.02'	'0.92'	'0.89'	'0.00'	'00:01:01'	'1251.03'	'0.01'	'0.03'	'16.20'
2:reading text	'-0.22'	'2.92'	'3.55'	'3.55'	'0.04'	'0.66'	'0.62'	'0.00'	'00:00:26'	'1044.02'	'0.01'	'0.03'	'7.58'
3:sitting still 30s	'0.96'	'1.67'	'2.00'	'2.22'	'0.02'	'0.88'	'0.50'	'0.00'	'00:00:30'	'846.13'	'0.01'	'0.12'	'234.62'
4:typing text	'-4.36'	'5.97'	'6.41'	'7.76'	'0.08'	'0.43'	'0.22'	'0.00'	'00:01:07'	'808.42'	'0.01'	'0.12'	'344.69'
5:sitting still 30s	'-1.24'	'1.85'	'2.04'	'2.39'	'0.02'	'0.89'	'0.42'	'0.00'	'00:00:30'	'933.53'	'0.01'	'0.03'	'6.80'
6:preparing to game	'0.14'	'1.28'	'1.50'	'1.50'	'0.02'	'1.00'	'0.90'	'0.00'	'00:00:03'	'816.34'	'0.01'	'0.02'	'4.22'
7:playing game	'-0.33'	'1.36'	'1.79'	'1.82'	'0.02'	'0.93'	'0.58'	'0.00'	'00:01:03'	'814.76'	'0.01'	'0.12'	'41.08'
8:sitting still 60s	'1.34'	'1.67'	'1.58'	'2.07'	'0.02'	'0.91'	'0.75'	'0.00'	'00:01:06'	'947.65'	'0.01'	'0.04'	'4.96'

18.4. Experiment results (plots)



Rozdział 19. video 5, GRD, AR_ROI1

19.1. Experiment details

Experiment name : video 5, GRD, AR_ROI1

Date : 30-Jan-2019 13:33:36

Camera : RGBRealSense

- relal/target fps = 59.5/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set4B

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-gr-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

19.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '
video_5_GRD_AR_ROI1_(18)	'1.16'	'1.95'	'2.35'	'2.62'	'0.03'	'0.83'	'0.85'	'0.00'	'00:06:00'	'964.84'	'0.12'	'0.02'	'160.19'

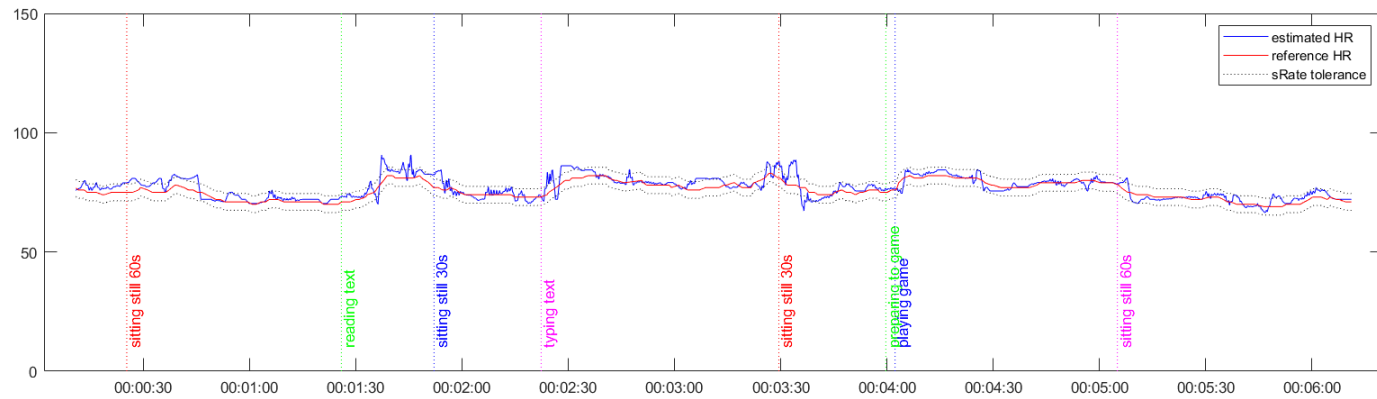
19.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '

Rozdział 19. video 5, GRD, AR_ROI1

1:sitting still 60s	'1.82'	'2.11'	'2.01'	'2.71'	'0.03'	'0.75'	'0.89'	'0.00'	'00:01:01'	'1251.03'	'0.01'	'0.03'	'16.20'
2:reading text	'2.60'	'3.01'	'2.57'	'3.66'	'0.04'	'0.74'	'0.89'	'0.00'	'00:00:26'	'1044.02'	'0.01'	'0.03'	'7.58'
3:sitting still 30s	'0.55'	'1.69'	'2.33'	'2.40'	'0.02'	'0.91'	'0.76'	'0.00'	'00:00:30'	'846.13'	'0.01'	'0.12'	'234.62'
4:typing text	'1.50'	'2.22'	'2.52'	'2.93'	'0.03'	'0.72'	'0.60'	'0.00'	'00:01:07'	'808.42'	'0.01'	'0.12'	'344.69'
5:sitting still 30s	'0.94'	'2.73'	'3.58'	'3.70'	'0.04'	'0.78'	'0.71'	'0.00'	'00:00:30'	'933.53'	'0.01'	'0.03'	'6.80'
6:preparing to game	'0.89'	'0.89'	'0.31'	'0.94'	'0.01'	'1.00'	'0.65'	'0.00'	'00:00:03'	'816.34'	'0.01'	'0.02'	'4.22'
7:playing game	'0.21'	'1.22'	'1.56'	'1.57'	'0.02'	'0.96'	'0.83'	'0.00'	'00:01:03'	'814.76'	'0.01'	'0.12'	'41.08'
8:sitting still 60s	'0.67'	'1.54'	'1.85'	'1.96'	'0.02'	'0.91'	'0.65'	'0.00'	'00:01:06'	'947.65'	'0.01'	'0.04'	'4.96'

19.4. Experiment results (plots)



Rozdział 20. video 5, ExG, AR_ROI1

20.1. Experiment details

Experiment name : video 5, ExG, AR_ROI1

Date : 30-Jan-2019 13:33:36

Camera : RGBRealSense

- relal/target fps = 59.5/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set4B

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-exg-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

20.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '
video_5_ExG_AR_ROI1_(19)	'0.81'	'1.98'	'2.45'	'2.59'	'0.03'	'0.82'	'0.83'	'0.00'	'00:06:00'	'964.84'	'0.12'	'0.02'	'160.19'

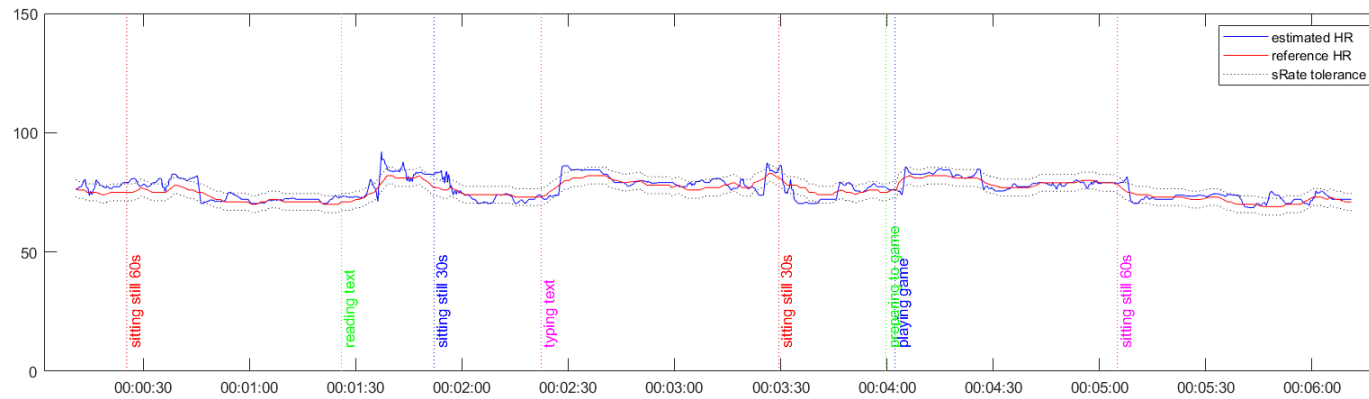
20.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '

Rozdział 20. video 5, ExG, AR_ROI1

1:sitting still 60s	'1.67'	'2.14'	'2.18'	'2.75'	'0.03'	'0.74'	'0.87'	'0.00'	'00:01:01'	'1251.03'	'0.01'	'0.03'	'16.20'
2:reading text	'2.43'	'2.71'	'2.42'	'3.43'	'0.03'	'0.76'	'0.88'	'0.00'	'00:00:26'	'1044.02'	'0.01'	'0.03'	'7.58'
3:sitting still 30s	'-0.21'	'2.06'	'2.83'	'2.84'	'0.03'	'0.80'	'0.83'	'0.00'	'00:00:30'	'846.13'	'0.01'	'0.12'	'234.62'
4:typing text	'0.89'	'2.07'	'2.44'	'2.59'	'0.03'	'0.83'	'0.70'	'0.00'	'00:01:07'	'808.42'	'0.01'	'0.12'	'344.69'
5:sitting still 30s	'-0.82'	'2.93'	'3.37'	'3.46'	'0.04'	'0.69'	'0.39'	'0.00'	'00:00:30'	'933.53'	'0.01'	'0.03'	'6.80'
6:preparing to game	'0.69'	'0.69'	'0.65'	'0.94'	'0.01'	'1.00'	'-0.72'	'0.00'	'00:00:03'	'816.34'	'0.01'	'0.02'	'4.22'
7:playing game	'0.15'	'1.20'	'1.59'	'1.60'	'0.01'	'0.96'	'0.85'	'0.00'	'00:01:03'	'814.76'	'0.01'	'0.12'	'41.08'
8:sitting still 60s	'0.82'	'1.69'	'1.98'	'2.15'	'0.02'	'0.88'	'0.54'	'0.00'	'00:01:06'	'947.65'	'0.01'	'0.04'	'4.96'

20.4. Experiment results (plots)



Rozdział 21. video 5, ICA, AR_ROI1

21.1. Experiment details

Experiment name : video 5, ICA, AR_ROI1

Date : 30-Jan-2019 13:33:36

Camera : RGBRealSense

- relal/target fps = 59.5/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set4B

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-ica-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

21.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '
video_5_ICA_AR_ROI1_(20)	'1.05'	'2.34'	'2.82'	'3.01'	'0.03'	'0.77'	'0.70'	'0.00'	'00:06:00'	'964.84'	'0.12'	'0.02'	'160.19'

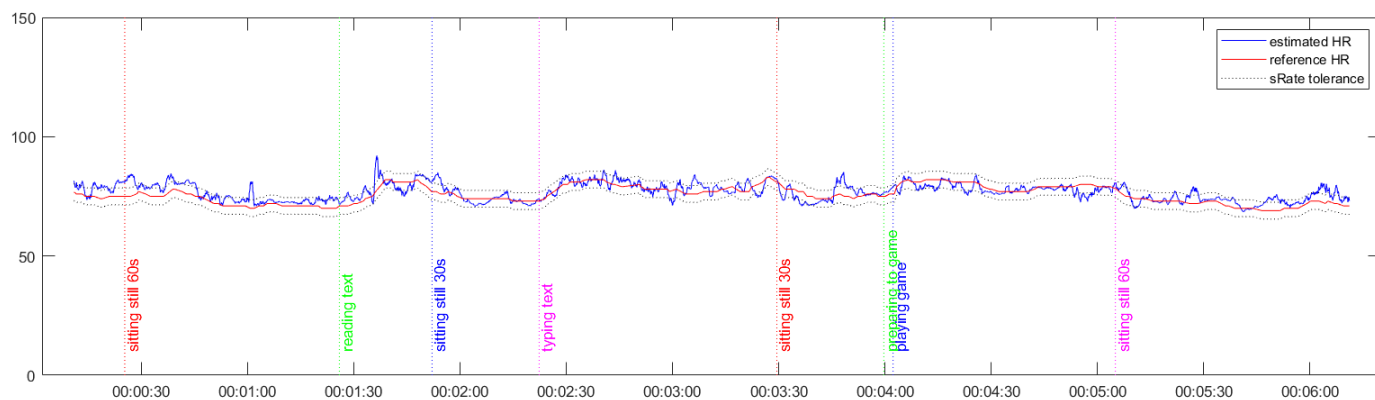
21.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '

Rozdział 21. video 5, ICA, AR_ROI1

1:sitting still 60s	'2.98'	'3.00'	'2.10'	'3.64'	'0.04'	'0.69'	'0.84'	'0.00'	'00:01:01'	'1251.03'	'0.01'	'0.03'	'16.20'
2:reading text	'1.35'	'3.04'	'3.56'	'3.80'	'0.04'	'0.66'	'0.64'	'0.00'	'00:00:26'	'1044.02'	'0.01'	'0.03'	'7.58'
3:sitting still 30s	'0.43'	'1.82'	'2.42'	'2.46'	'0.02'	'0.90'	'0.83'	'0.00'	'00:00:30'	'846.13'	'0.01'	'0.12'	'234.62'
4:typing text	'0.50'	'1.87'	'2.35'	'2.40'	'0.02'	'0.86'	'0.58'	'0.00'	'00:01:07'	'808.42'	'0.01'	'0.12'	'344.69'
5:sitting still 30s	'0.01'	'2.60'	'3.32'	'3.32'	'0.03'	'0.69'	'0.19'	'0.00'	'00:00:30'	'933.53'	'0.01'	'0.03'	'6.80'
6:preparing to game	'1.76'	'1.76'	'0.50'	'1.83'	'0.02'	'1.00'	'0.79'	'0.00'	'00:00:03'	'816.34'	'0.01'	'0.02'	'4.22'
7:playing game	'-1.15'	'1.71'	'1.95'	'2.26'	'0.02'	'0.86'	'0.43'	'0.00'	'00:01:03'	'814.76'	'0.01'	'0.12'	'41.08'
8:sitting still 60s	'1.99'	'2.38'	'2.25'	'3.00'	'0.03'	'0.75'	'0.52'	'0.00'	'00:01:06'	'947.65'	'0.01'	'0.04'	'4.96'

21.4. Experiment results (plots)



Rozdział 22. video 6, G, AR_ROI1

22.1. Experiment details

Experiment name : video 6, G, AR_ROI1

Date : 01-Feb-2019 17:48:26

Camera : RGBRealSense

- relal/target fps = 59.5/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set4B

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-g-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

22.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '
video_6_G_AR_ROI1_(21)	'8.96'	'13.64'	'17.19'	'19.39'	'0.18'	'0.23'	'-0.19'	'0.00'	'00:05:58'	'27.12'	'0.11'	'0.06'	'85.38'

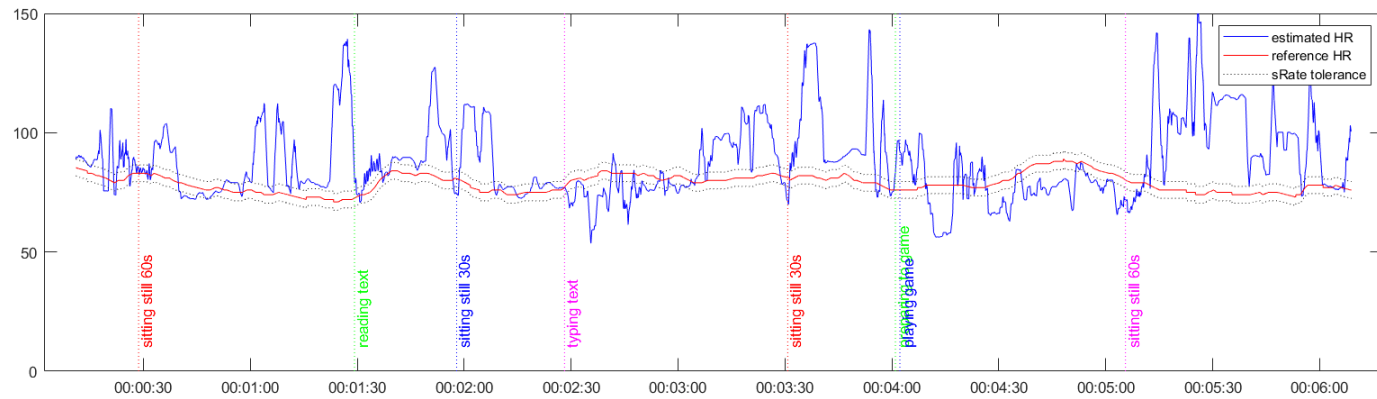
22.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '

Rozdział 22. video 6, G, AR_ROI1

1:sitting still 60s	'11.53'	'12.98'	'16.52'	'20.14'	'0.17'	'0.26'	'-0.21'	'0.00'	'00:01:01'	'27.33'	'0.01'	'0.02'	'33.16'
2:reading text	'9.44'	'10.00'	'10.99'	'14.49'	'0.12'	'0.22'	'0.40'	'0.00'	'00:00:29'	'29.69'	'0.01'	'0.03'	'32.84'
3:sitting still 30s	'9.35'	'9.96'	'12.93'	'15.95'	'0.13'	'0.57'	'0.41'	'0.00'	'00:00:30'	'29.86'	'0.01'	'0.02'	'22.79'
4:typing text	'2.44'	'10.26'	'12.83'	'13.06'	'0.13'	'0.25'	'-0.12'	'0.00'	'00:01:03'	'22.35'	'0.01'	'0.07'	'86.23'
5:sitting still 30s	'18.99'	'19.67'	'18.61'	'26.58'	'0.24'	'0.09'	'0.36'	'0.00'	'00:00:30'	'24.69'	'0.01'	'0.02'	'83.29'
6:preparing to game	'16.92'	'16.92'	'4.17'	'17.42'	'0.22'	'0.00'	'NaN'	'NaN'	'00:00:01'	'23.01'	'0.01'	'0.01'	'46.11'
7:playing game	'-5.00'	'9.82'	'10.21'	'11.36'	'0.12'	'0.16'	'0.03'	'0.06'	'00:01:03'	'25.77'	'0.01'	'0.05'	'61.78'
8:sitting still 60s	'22.43'	'23.70'	'18.74'	'29.23'	'0.31'	'0.15'	'-0.49'	'0.00'	'00:01:03'	'32.02'	'0.01'	'0.04'	'83.27'

22.4. Experiment results (plots)



Rozdział 23. video 6, GRD, AR_ROI1

23.1. Experiment details

Experiment name : video 6, GRD, AR_ROI1

Date : 01-Feb-2019 17:48:26

Camera : RGBRealSense

- relal/target fps = 59.5/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set4B

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-gr-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

23.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '
video_6_GRD_AR_ROI1_(22)	'7.57'	'11.51'	'15.47'	'17.23'	'0.15'	'0.27'	'-0.10'	'0.00'	'00:05:58'	'27.12'	'0.11'	'0.06'	'85.38'

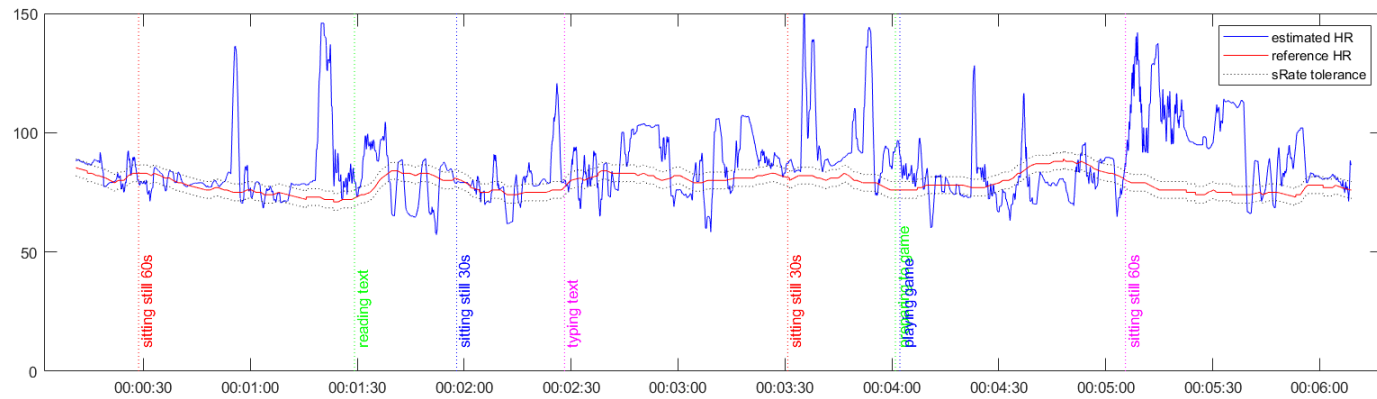
23.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '

Rozdział 23. video 6, GRD, AR_ROI1

1:sitting still 60s	'7.76'	'9.36'	'17.11'	'18.78'	'0.13'	'0.49'	'-0.24'	'0.00'	'00:01:01'	'27.33'	'0.01'	'0.02'	'33.16'
2:reading text	'0.33'	'10.95'	'12.91'	'12.91'	'0.14'	'0.14'	'-0.38'	'0.00'	'00:00:29'	'29.69'	'0.01'	'0.03'	'32.84'
3:sitting still 30s	'3.65'	'6.35'	'9.75'	'10.41'	'0.08'	'0.48'	'0.22'	'0.00'	'00:00:30'	'29.86'	'0.01'	'0.02'	'22.79'
4:typing text	'5.95'	'10.40'	'11.26'	'12.73'	'0.13'	'0.19'	'0.14'	'0.00'	'00:01:03'	'22.35'	'0.01'	'0.07'	'86.23'
5:sitting still 30s	'17.21'	'17.46'	'17.71'	'24.69'	'0.22'	'0.10'	'0.12'	'0.00'	'00:00:30'	'24.69'	'0.01'	'0.02'	'83.29'
6:preparing to game	'18.75'	'18.75'	'1.73'	'18.83'	'0.25'	'0.00'	'NaN'	'NaN'	'00:00:01'	'23.01'	'0.01'	'0.01'	'46.11'
7:playing game	'-1.46'	'7.73'	'10.06'	'10.16'	'0.09'	'0.21'	'0.01'	'0.65'	'00:01:03'	'25.77'	'0.01'	'0.05'	'61.78'
8:sitting still 60s	'19.85'	'20.42'	'15.88'	'25.42'	'0.27'	'0.15'	'0.14'	'0.00'	'00:01:03'	'32.02'	'0.01'	'0.04'	'83.27'

23.4. Experiment results (plots)



Rozdział 24. video 6, ExG, AR_ROI1

24.1. Experiment details

Experiment name : video 6, ExG, AR_ROI1

Date : 01-Feb-2019 17:48:26

Camera : RGBRealSense

- relal/target fps = 59.5/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set4B

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-exg-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

24.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '
video_6_ExG_AR_ROI1_(23)	'6.80'	'8.39'	'13.83'	'15.41'	'0.11'	'0.46'	'0.15'	'0.00'	'00:05:58'	'27.12'	'0.11'	'0.06'	'85.38'

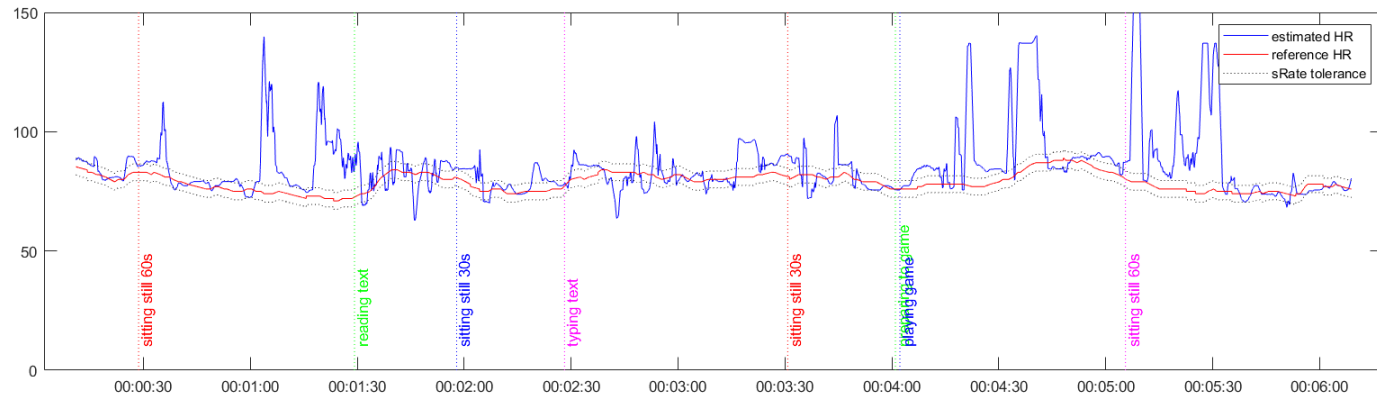
24.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '

Rozdział 24. video 6, ExG, AR_ROI1

1:sitting still 60s	'9.67'	'10.22'	'13.30'	'16.44'	'0.14'	'0.43'	'-0.15'	'0.00'	'00:01:01'	'27.33'	'0.01'	'0.02'	'33.16'
2:reading text	'1.95'	'5.80'	'7.14'	'7.40'	'0.07'	'0.33'	'0.16'	'0.00'	'00:00:29'	'29.69'	'0.01'	'0.03'	'32.84'
3:sitting still 30s	'3.15'	'3.86'	'3.84'	'4.97'	'0.05'	'0.50'	'0.54'	'0.00'	'00:00:30'	'29.86'	'0.01'	'0.02'	'22.79'
4:typing text	'2.19'	'5.19'	'6.67'	'7.02'	'0.06'	'0.47'	'-0.02'	'0.27'	'00:01:03'	'22.35'	'0.01'	'0.07'	'86.23'
5:sitting still 30s	'1.42'	'4.20'	'6.03'	'6.19'	'0.05'	'0.62'	'0.46'	'0.00'	'00:00:30'	'24.69'	'0.01'	'0.02'	'83.29'
6:preparing to game	'-0.40'	'0.40'	'0.03'	'0.40'	'0.01'	'1.00'	'NaN'	'NaN'	'00:00:01'	'23.01'	'0.01'	'0.01'	'46.11'
7:playing game	'11.45'	'12.21'	'16.84'	'20.36'	'0.15'	'0.31'	'0.27'	'0.00'	'00:01:03'	'25.77'	'0.01'	'0.05'	'61.78'
8:sitting still 60s	'11.76'	'13.00'	'20.57'	'23.69'	'0.17'	'0.53'	'0.24'	'0.00'	'00:01:03'	'32.02'	'0.01'	'0.04'	'83.27'

24.4. Experiment results (plots)



Rozdział 25. video 6, ICA, AR_ROI1

25.1. Experiment details

Experiment name : video 6, ICA, AR_ROI1

Date : 01-Feb-2019 17:48:26

Camera : RGBRealSense

- relal/target fps = 59.5/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set4B

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-ica-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

25.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '
video_6_ICA_AR_ROI1_(24)	'6.86'	'8.13'	'9.45'	'11.67'	'0.10'	'0.35'	'0.12'	'0.00'	'00:05:58'	'27.12'	'0.11'	'0.06'	'85.38'

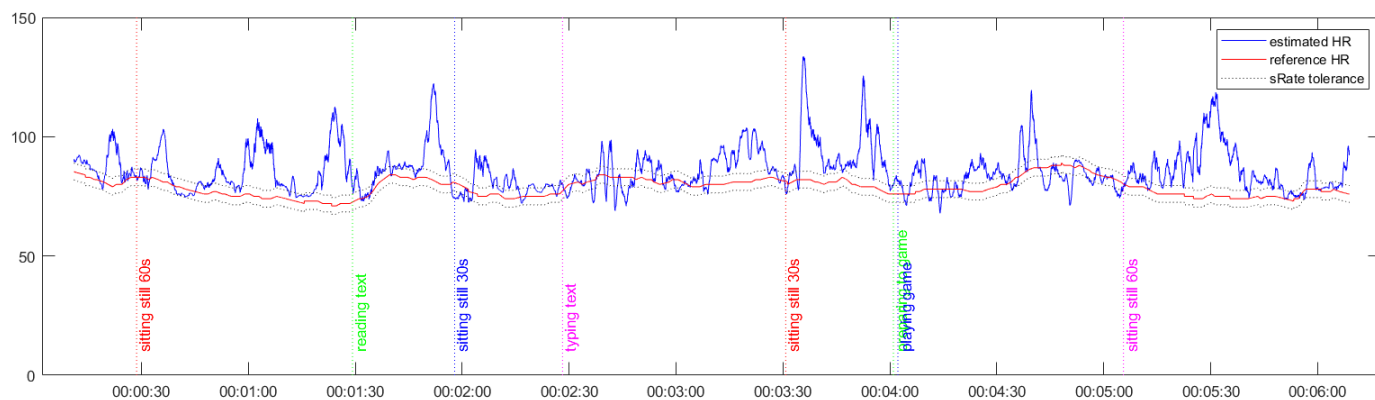
25.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '

Rozdział 25. video 6, ICA, AR_ROI1

1:sitting still 60s	'9.41'	'9.95'	'10.03'	'13.76'	'0.13'	'0.34'	'-0.11'	'0.00'	'00:01:01'	'27.33'	'0.01'	'0.02'	'33.16'
2:reading text	'7.63'	'8.05'	'9.29'	'12.02'	'0.10'	'0.31'	'0.46'	'0.00'	'00:00:29'	'29.69'	'0.01'	'0.03'	'32.84'
3:sitting still 30s	'3.93'	'5.36'	'5.52'	'6.77'	'0.07'	'0.41'	'-0.34'	'0.00'	'00:00:30'	'29.86'	'0.01'	'0.02'	'22.79'
4:typing text	'4.11'	'6.27'	'7.32'	'8.39'	'0.08'	'0.43'	'0.06'	'0.00'	'00:01:03'	'22.35'	'0.01'	'0.07'	'86.23'
5:sitting still 30s	'13.76'	'14.02'	'12.07'	'18.30'	'0.17'	'0.11'	'0.17'	'0.00'	'00:00:30'	'24.69'	'0.01'	'0.02'	'83.29'
6:preparing to game	'5.81'	'5.81'	'1.03'	'5.90'	'0.08'	'0.00'	'NaN'	'NaN'	'00:00:01'	'23.01'	'0.01'	'0.01'	'46.11'
7:playing game	'1.94'	'5.34'	'6.97'	'7.23'	'0.07'	'0.45'	'0.30'	'0.00'	'00:01:03'	'25.77'	'0.01'	'0.05'	'61.78'
8:sitting still 60s	'10.03'	'10.13'	'9.83'	'14.04'	'0.13'	'0.31'	'-0.16'	'0.00'	'00:01:03'	'32.02'	'0.01'	'0.04'	'83.27'

25.4. Experiment results (plots)



Rozdział 26. video 7, G, AR_ROI1

26.1. Experiment details

Experiment name : video 7, G, AR_ROI1

Date : 02-Feb-2019 10:06:11

Camera : RGBRealSense

- relal/target fps = 59.6/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set4B

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-g-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

26.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '
video_7_G_AR_ROI1_(25)	'2.24'	'3.04'	'4.89'	'5.38'	'0.05'	'0.76'	'0.40'	'0.00'	'00:06:08'	'150.44'	'0.13'	'0.07'	'68.98'

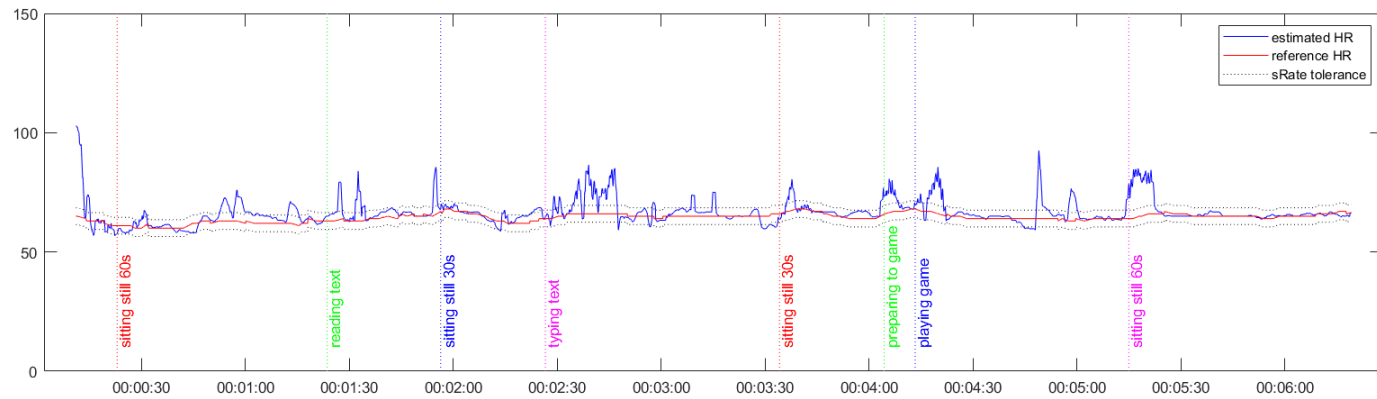
26.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '

Rozdział 26. video 7, G, AR_ROI1

1:sitting still 60s	'1.90'	'2.84'	'3.32'	'3.82'	'0.05'	'0.73'	'0.57'	'0.00'	'00:01:01'	'146.26'	'0.01'	'0.04'	'14.57'
2:reading text	'2.97'	'3.09'	'4.42'	'5.32'	'0.05'	'0.79'	'0.06'	'0.01'	'00:00:33'	'135.39'	'0.02'	'0.06'	'29.17'
3:sitting still 30s	'1.13'	'1.82'	'2.04'	'2.33'	'0.03'	'0.86'	'0.63'	'0.00'	'00:00:30'	'141.69'	'0.01'	'0.04'	'31.70'
4:typing text	'2.38'	'3.73'	'5.07'	'5.60'	'0.06'	'0.67'	'0.46'	'0.00'	'00:01:08'	'114.24'	'0.01'	'0.05'	'76.79'
5:sitting still 30s	'1.75'	'1.97'	'2.60'	'3.13'	'0.03'	'0.88'	'0.48'	'0.00'	'00:00:30'	'153.22'	'0.01'	'0.04'	'18.09'
6:preparing to game	'4.37'	'4.38'	'3.90'	'5.85'	'0.07'	'0.54'	'-0.69'	'0.00'	'00:00:09'	'153.63'	'0.01'	'0.06'	'21.92'
7:playing game	'2.26'	'3.12'	'4.83'	'5.33'	'0.05'	'0.72'	'0.40'	'0.00'	'00:01:02'	'171.74'	'0.01'	'0.07'	'27.20'
8:sitting still 60s	'1.89'	'2.41'	'5.11'	'5.45'	'0.04'	'0.88'	'-0.09'	'0.00'	'00:01:04'	'191.54'	'0.01'	'0.04'	'9.79'

26.4. Experiment results (plots)



Rozdział 27. video 7, GRD, AR_ROI1

27.1. Experiment details

Experiment name : video 7, GRD, AR_ROI1

Date : 02-Feb-2019 10:06:11

Camera : RGBRealSense

- relal/target fps = 59.6/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set4B

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-gr-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

27.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '
video_7_GRD_AR_ROI1_(26)	'3.79'	'4.17'	'6.96'	'7.93'	'0.06'	'0.73'	'0.24'	'0.00'	'00:06:08'	'150.44'	'0.13'	'0.07'	'68.98'

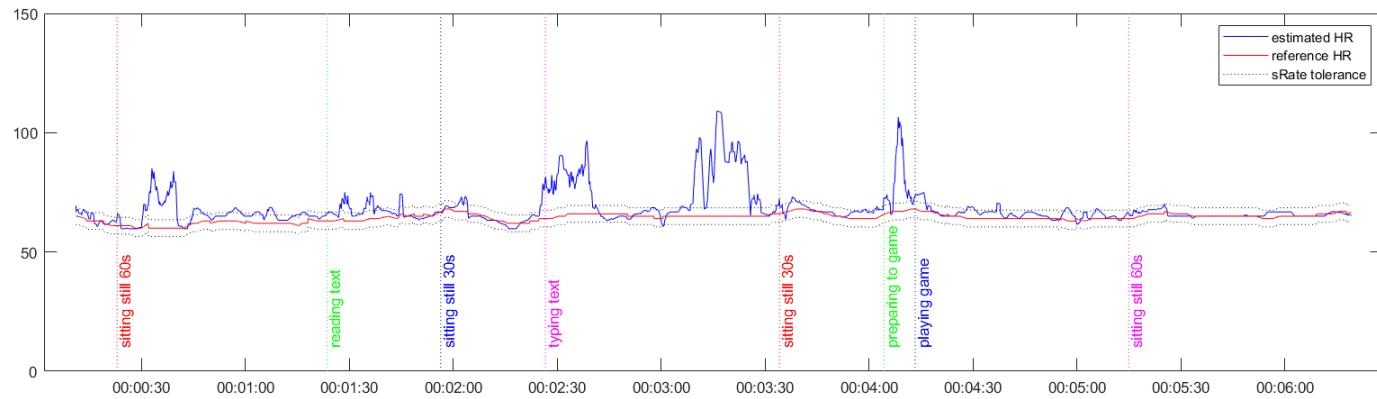
27.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '

Rozdział 27. video 7, GRD, AR_ROI1

1:sitting still 60s	'4.40'	'4.58'	'5.07'	'6.72'	'0.07'	'0.56'	'-0.24'	'0.00'	'00:01:01'	'146.26'	'0.01'	'0.04'	'14.57'
2:reading text	'2.70'	'3.10'	'3.09'	'4.10'	'0.05'	'0.68'	'-0.22'	'0.00'	'00:00:33'	'135.39'	'0.02'	'0.06'	'29.17'
3:sitting still 30s	'0.91'	'2.00'	'3.05'	'3.18'	'0.03'	'0.88'	'0.67'	'0.00'	'00:00:30'	'141.69'	'0.01'	'0.04'	'31.70'
4:typing text	'10.15'	'10.69'	'11.63'	'15.44'	'0.16'	'0.44'	'-0.11'	'0.00'	'00:01:08'	'114.24'	'0.01'	'0.05'	'76.79'
5:sitting still 30s	'1.83'	'1.94'	'1.58'	'2.42'	'0.03'	'0.88'	'0.60'	'0.00'	'00:00:30'	'153.22'	'0.01'	'0.04'	'18.09'
6:preparing to game	'12.65'	'12.76'	'11.82'	'17.31'	'0.19'	'0.17'	'-0.06'	'0.14'	'00:00:09'	'153.63'	'0.01'	'0.06'	'21.92'
7:playing game	'1.88'	'2.05'	'1.96'	'2.71'	'0.03'	'0.83'	'0.59'	'0.00'	'00:01:02'	'171.74'	'0.01'	'0.07'	'27.20'
8:sitting still 60s	'0.46'	'0.86'	'1.13'	'1.22'	'0.01'	'1.00'	'0.24'	'0.00'	'00:01:04'	'191.54'	'0.01'	'0.04'	'9.79'

27.4. Experiment results (plots)



Rozdział 28. video 7, ExG, AR_ROI1

28.1. Experiment details

Experiment name : video 7, ExG, AR_ROI1

Date : 02-Feb-2019 10:06:11

Camera : RGBRealSense

- relal/target fps = 59.6/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set4B

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-exg-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

28.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '
video_7_ExG_AR_ROI1_(27)	'3.37'	'3.78'	'5.84'	'6.75'	'0.06'	'0.71'	'0.32'	'0.00'	'00:06:08'	'150.44'	'0.13'	'0.07'	'68.98'

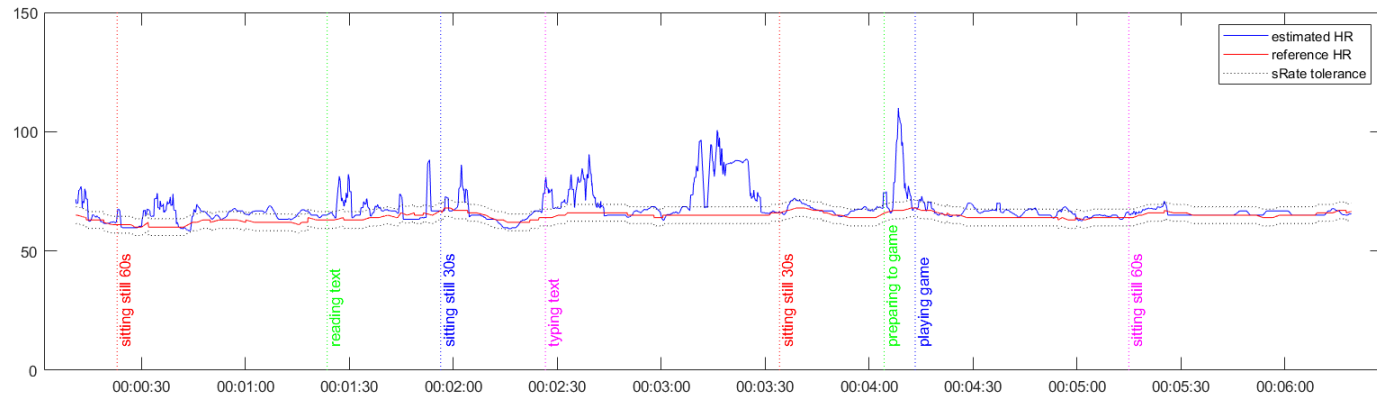
28.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '

Rozdział 28. video 7, ExG, AR_ROI1

1:sitting still 60s	'3.29'	'3.59'	'3.07'	'4.50'	'0.06'	'0.53'	'0.14'	'0.00'	'00:01:01'	'146.26'	'0.01'	'0.04'	'14.57'
2:reading text	'3.54'	'4.29'	'5.13'	'6.23'	'0.07'	'0.66'	'-0.12'	'0.00'	'00:00:33'	'135.39'	'0.02'	'0.06'	'29.17'
3:sitting still 30s	'1.15'	'2.59'	'3.83'	'4.00'	'0.04'	'0.80'	'0.67'	'0.00'	'00:00:30'	'141.69'	'0.01'	'0.04'	'31.70'
4:typing text	'8.12'	'8.40'	'9.07'	'12.18'	'0.13'	'0.47'	'-0.10'	'0.00'	'00:01:08'	'114.24'	'0.01'	'0.05'	'76.79'
5:sitting still 30s	'1.87'	'2.01'	'1.69'	'2.52'	'0.03'	'0.83'	'0.54'	'0.00'	'00:00:30'	'153.22'	'0.01'	'0.04'	'18.09'
6:preparing to game	'12.04'	'12.19'	'12.95'	'17.67'	'0.18'	'0.33'	'-0.09'	'0.05'	'00:00:09'	'153.63'	'0.01'	'0.06'	'21.92'
7:playing game	'1.75'	'1.90'	'1.75'	'2.47'	'0.03'	'0.83'	'0.41'	'0.00'	'00:01:02'	'171.74'	'0.01'	'0.07'	'27.20'
8:sitting still 60s	'0.55'	'0.97'	'1.20'	'1.32'	'0.01'	'0.99'	'0.21'	'0.00'	'00:01:04'	'191.54'	'0.01'	'0.04'	'9.79'

28.4. Experiment results (plots)



Rozdział 29. video 7, ICA, AR_ROI1

29.1. Experiment details

Experiment name : video 7, ICA, AR_ROI1

Date : 02-Feb-2019 10:06:11

Camera : RGBRealSense

- relal/target fps = 59.6/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set4B

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-ica-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

29.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '
video_7_ICA_AR_ROI1_(28)	'4.37'	'4.56'	'3.83'	'5.81'	'0.07'	'0.48'	'0.33'	'0.00'	'00:06:08'	'150.44'	'0.13'	'0.07'	'68.98'

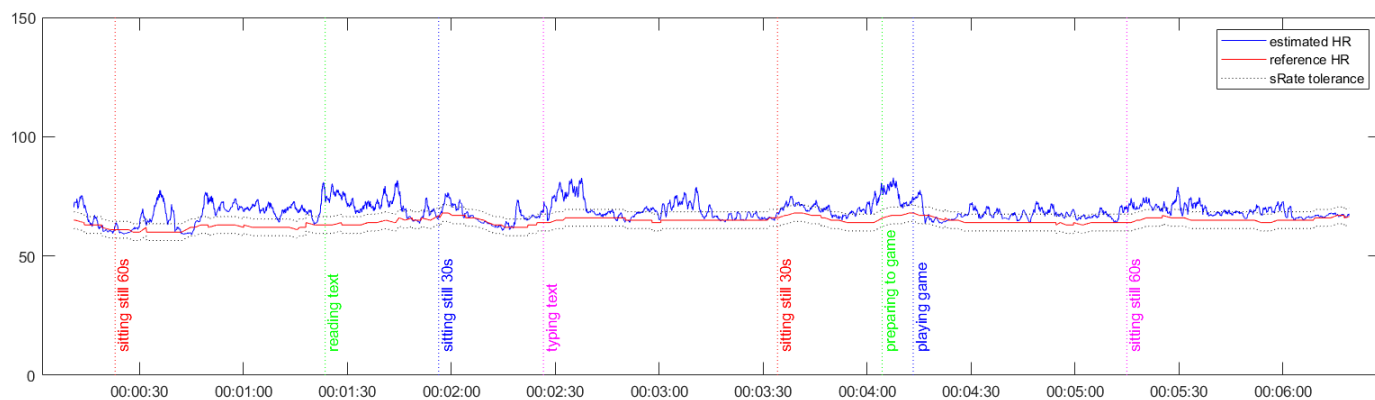
29.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '

Rozdział 29. video 7, ICA, AR_ROI1

1:sitting still 60s	'5.89'	'6.24'	'4.43'	'7.37'	'0.10'	'0.30'	'0.39'	'0.00'	'00:01:01'	'146.26'	'0.01'	'0.04'	'14.57'
2:reading text	'7.06'	'7.14'	'4.56'	'8.40'	'0.11'	'0.24'	'-0.43'	'0.00'	'00:00:33'	'135.39'	'0.02'	'0.06'	'29.17'
3:sitting still 30s	'2.17'	'2.60'	'2.84'	'3.58'	'0.04'	'0.70'	'0.64'	'0.00'	'00:00:30'	'141.69'	'0.01'	'0.04'	'31.70'
4:typing text	'4.22'	'4.31'	'4.13'	'5.91'	'0.07'	'0.58'	'0.13'	'0.00'	'00:01:08'	'114.24'	'0.01'	'0.05'	'76.79'
5:sitting still 30s	'4.29'	'4.29'	'2.54'	'4.99'	'0.07'	'0.43'	'0.35'	'0.00'	'00:00:30'	'153.22'	'0.01'	'0.04'	'18.09'
6:preparing to game	'8.51'	'8.51'	'3.99'	'9.40'	'0.13'	'0.09'	'-0.59'	'0.00'	'00:00:09'	'153.63'	'0.01'	'0.06'	'21.92'
7:playing game	'3.19'	'3.44'	'2.49'	'4.05'	'0.05'	'0.57'	'0.20'	'0.00'	'00:01:02'	'171.74'	'0.01'	'0.07'	'27.20'
8:sitting still 60s	'3.68'	'3.69'	'2.51'	'4.45'	'0.06'	'0.52'	'-0.04'	'0.03'	'00:01:04'	'191.54'	'0.01'	'0.04'	'9.79'

29.4. Experiment results (plots)



Rozdział 30. video 8, G, AR_ROI1

30.1. Experiment details

Experiment name : video 8, G, AR_ROI1

Date : 19-Nov-2018 13:19:11

Camera : RGBRealSense

- relal/target fps = 59.5/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set3

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-g-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

30.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '
video_8_G_AR_ROI1_(29)	'4.28'	'8.39'	'15.03'	'15.63'	'0.11'	'0.53'	'0.18'	'0.00'	'00:06:07'	'49.16'	'0.10'	'0.07'	'30.34'

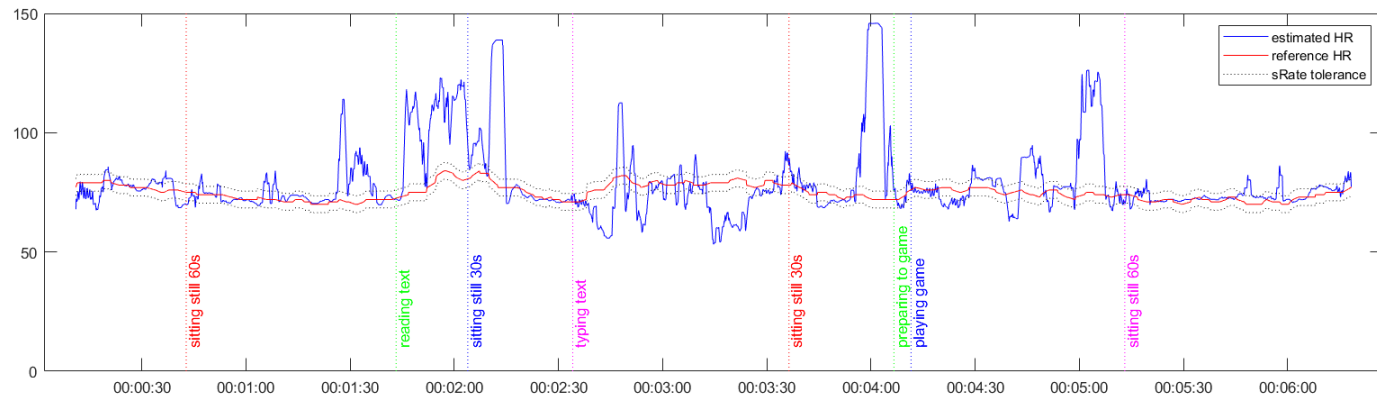
30.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '

Rozdział 30. video 8, G, AR_ROI1

1:sitting still 60s	'3.49'	'4.50'	'7.71'	'8.47'	'0.06'	'0.72'	'-0.17'	'0.00'	'00:01:00'	'56.67'	'0.01'	'0.04'	'19.75'
2:reading text	'26.20'	'26.33'	'12.61'	'29.07'	'0.33'	'0.12'	'0.62'	'0.00'	'00:00:21'	'55.44'	'0.01'	'0.03'	'22.63'
3:sitting still 30s	'9.44'	'10.88'	'19.81'	'21.94'	'0.14'	'0.63'	'0.51'	'0.00'	'00:00:30'	'52.67'	'0.01'	'0.05'	'15.48'
4:typing text	'-5.69'	'9.19'	'10.60'	'12.03'	'0.12'	'0.31'	'0.19'	'0.00'	'00:01:02'	'52.58'	'0.01'	'0.08'	'19.49'
5:sitting still 30s	'14.97'	'17.16'	'26.47'	'30.41'	'0.24'	'0.45'	'-0.42'	'0.00'	'00:00:30'	'48.53'	'0.01'	'0.03'	'21.82'
6:preparing to game	'-0.05'	'2.99'	'3.39'	'3.38'	'0.04'	'0.58'	'0.76'	'0.00'	'00:00:05'	'42.75'	'0.01'	'0.04'	'19.02'
7:playing game	'5.80'	'9.44'	'14.57'	'15.69'	'0.13'	'0.37'	'-0.23'	'0.00'	'00:01:02'	'37.77'	'0.01'	'0.05'	'31.86'
8:sitting still 60s	'1.64'	'2.09'	'2.64'	'3.11'	'0.03'	'0.83'	'0.39'	'0.00'	'00:01:05'	'43.31'	'0.01'	'0.04'	'16.73'

30.4. Experiment results (plots)



Rozdział 31. video 8, GRD, AR_ROI1

31.1. Experiment details

Experiment name : video 8, GRD, AR_ROI1

Date : 19-Nov-2018 13:19:11

Camera : RGBRealSense

- relal/target fps = 59.5/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set3

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-gr-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

31.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '
video_8_GRD_AR_ROI1_(30)	'9.97'	'13.86'	'18.02'	'20.59'	'0.19'	'0.28'	'-0.18'	'0.00'	'00:06:07'	'49.16'	'0.10'	'0.07'	'30.34'

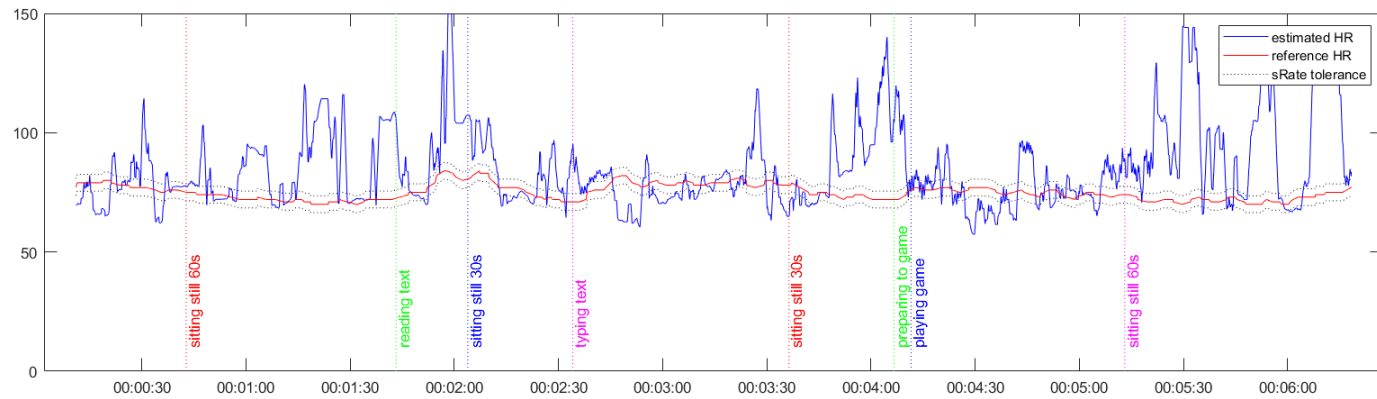
31.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '

Rozdział 31. video 8, GRD, AR_ROI1

1:sitting still 60s	'14.18'	'14.76'	'14.67'	'20.40'	'0.21'	'0.37'	'-0.31'	'0.00'	'00:01:00'	'56.67'	'0.01'	'0.04'	'19.75'
2:reading text	'16.51'	'17.75'	'19.10'	'25.24'	'0.22'	'0.24'	'0.76'	'0.00'	'00:00:21'	'55.44'	'0.01'	'0.03'	'22.63'
3:sitting still 30s	'6.74'	'9.24'	'9.73'	'11.84'	'0.12'	'0.24'	'0.58'	'0.00'	'00:00:30'	'52.67'	'0.01'	'0.05'	'15.48'
4:typing text	'-0.68'	'7.91'	'10.51'	'10.53'	'0.10'	'0.26'	'-0.32'	'0.00'	'00:01:02'	'52.58'	'0.01'	'0.08'	'19.49'
5:sitting still 30s	'15.47'	'18.10'	'19.25'	'24.69'	'0.25'	'0.19'	'-0.61'	'0.00'	'00:00:30'	'48.53'	'0.01'	'0.03'	'21.82'
6:preparing to game	'25.03'	'25.26'	'16.49'	'29.96'	'0.35'	'0.19'	'-0.95'	'0.00'	'00:00:05'	'42.75'	'0.01'	'0.04'	'19.02'
7:playing game	'0.93'	'7.09'	'9.04'	'9.09'	'0.09'	'0.37'	'-0.17'	'0.00'	'00:01:02'	'37.77'	'0.01'	'0.05'	'31.86'
8:sitting still 60s	'25.36'	'26.27'	'22.58'	'33.95'	'0.36'	'0.14'	'0.10'	'0.00'	'00:01:05'	'43.31'	'0.01'	'0.04'	'16.73'

31.4. Experiment results (plots)



Rozdział 32. video 8, ExG, AR_ROI1

32.1. Experiment details

Experiment name : video 8, ExG, AR_ROI1

Date : 19-Nov-2018 13:19:11

Camera : RGBRealSense

- relal/target fps = 59.5/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set3

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-exg-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

32.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '
video_8_ExG_AR_ROI1_(31)	'7.71'	'12.04'	'17.64'	'19.26'	'0.16'	'0.34'	'-0.17'	'0.00'	'00:06:07'	'49.16'	'0.10'	'0.07'	'30.34'

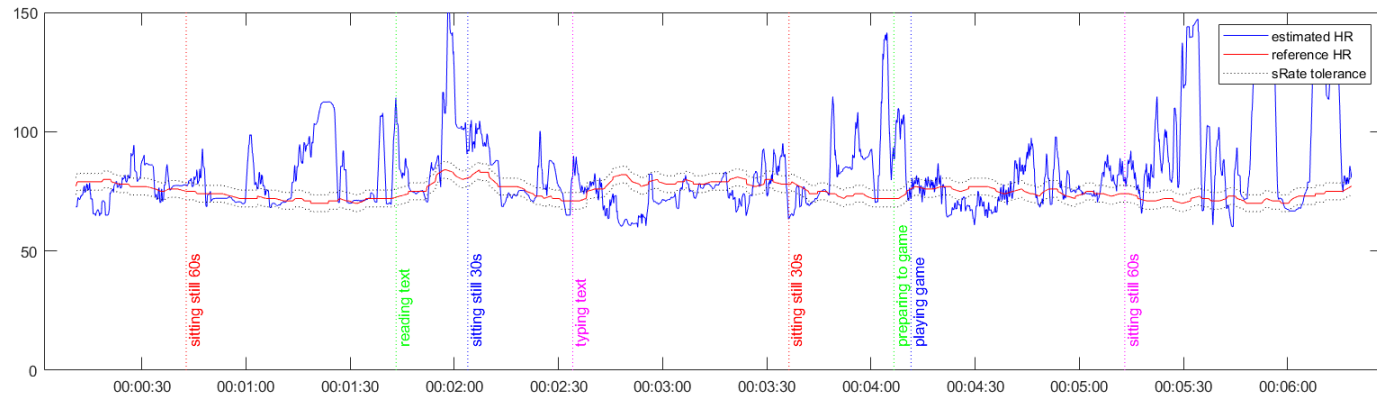
32.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '

Rozdział 32. video 8, ExG, AR_ROI1

1:sitting still 60s	'9.29'	'10.46'	'13.79'	'16.62'	'0.15'	'0.51'	'-0.35'	'0.00'	'00:01:00'	'56.67'	'0.01'	'0.04'	'19.75'
2:reading text	'15.20'	'15.98'	'18.36'	'23.83'	'0.20'	'0.28'	'0.69'	'0.00'	'00:00:21'	'55.44'	'0.01'	'0.03'	'22.63'
3:sitting still 30s	'5.05'	'7.82'	'8.35'	'9.75'	'0.10'	'0.28'	'0.68'	'0.00'	'00:00:30'	'52.67'	'0.01'	'0.05'	'15.48'
4:typing text	'-3.91'	'7.43'	'8.50'	'9.35'	'0.09'	'0.32'	'-0.32'	'0.00'	'00:01:02'	'52.58'	'0.01'	'0.08'	'19.49'
5:sitting still 30s	'11.37'	'14.58'	'17.90'	'21.20'	'0.20'	'0.26'	'-0.54'	'0.00'	'00:00:30'	'48.53'	'0.01'	'0.03'	'21.82'
6:preparing to game	'19.67'	'20.82'	'14.94'	'24.69'	'0.29'	'0.19'	'-0.87'	'0.00'	'00:00:05'	'42.75'	'0.01'	'0.04'	'19.02'
7:playing game	'1.02'	'6.05'	'7.70'	'7.77'	'0.08'	'0.42'	'-0.30'	'0.00'	'00:01:02'	'37.77'	'0.01'	'0.05'	'31.86'
8:sitting still 60s	'23.95'	'25.45'	'24.77'	'34.45'	'0.35'	'0.16'	'0.02'	'0.13'	'00:01:05'	'43.31'	'0.01'	'0.04'	'16.73'

32.4. Experiment results (plots)



Rozdział 33. video 8, ICA, AR_ROI1

33.1. Experiment details

Experiment name : video 8, ICA, AR_ROI1

Date : 19-Nov-2018 13:19:11

Camera : RGBRealSense

- relal/target fps = 59.5/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set3

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-ica-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

33.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '
video_8_ICA_AR_ROI1_(32)	'1.54'	'3.50'	'4.56'	'4.82'	'0.05'	'0.63'	'0.40'	'0.00'	'00:06:07'	'49.16'	'0.10'	'0.07'	'30.34'

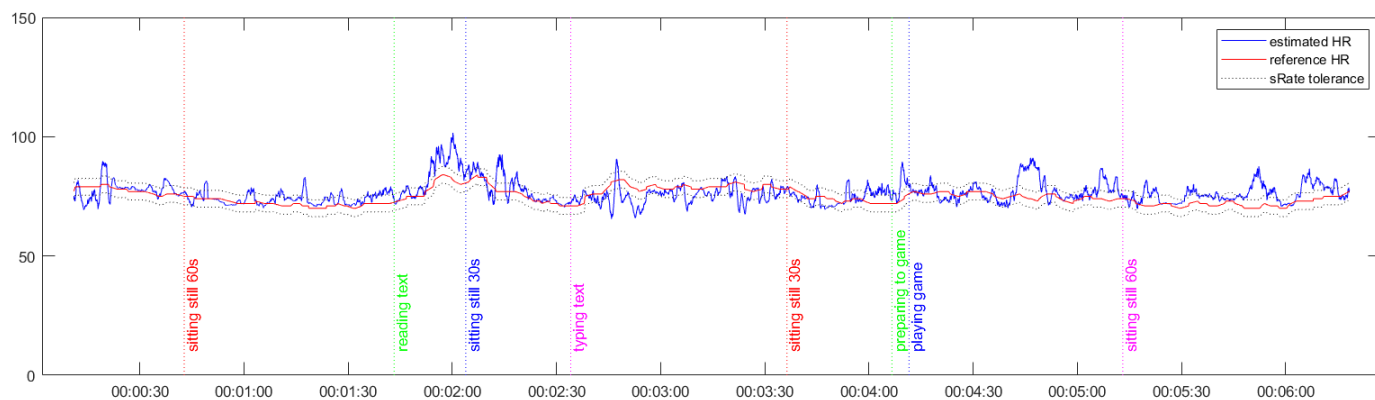
33.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '

Rozdział 33. video 8, ICA, AR_ROI1

1:sitting still 60s	'1.94'	'2.44'	'2.52'	'3.18'	'0.03'	'0.74'	'0.14'	'0.00'	'00:01:00'	'56.67'	'0.01'	'0.04'	'19.75'
2:reading text	'5.50'	'5.65'	'4.87'	'7.34'	'0.07'	'0.42'	'0.90'	'0.00'	'00:00:21'	'55.44'	'0.01'	'0.03'	'22.63'
3:sitting still 30s	'2.03'	'3.00'	'3.87'	'4.37'	'0.04'	'0.70'	'0.75'	'0.00'	'00:00:30'	'52.67'	'0.01'	'0.05'	'15.48'
4:typing text	'-2.80'	'3.74'	'3.93'	'4.83'	'0.05'	'0.60'	'0.20'	'0.00'	'00:01:02'	'52.58'	'0.01'	'0.08'	'19.49'
5:sitting still 30s	'0.60'	'2.94'	'3.61'	'3.66'	'0.04'	'0.64'	'-0.09'	'0.00'	'00:00:30'	'48.53'	'0.01'	'0.03'	'21.82'
6:preparing to game	'5.79'	'5.79'	'4.33'	'7.23'	'0.08'	'0.28'	'0.50'	'0.00'	'00:00:05'	'42.75'	'0.01'	'0.04'	'19.02'
7:playing game	'2.33'	'3.68'	'4.89'	'5.41'	'0.05'	'0.68'	'-0.17'	'0.00'	'00:01:02'	'37.77'	'0.01'	'0.05'	'31.86'
8:sitting still 60s	'3.83'	'4.03'	'3.63'	'5.27'	'0.06'	'0.53'	'0.17'	'0.00'	'00:01:05'	'43.31'	'0.01'	'0.04'	'16.73'

33.4. Experiment results (plots)



Rozdział 34. video 9, G, AR_ROI1

34.1. Experiment details

Experiment name : video 9, G, AR_ROI1

Date : 14-Dec-2018 12:31:53

Camera : RGBRealSense

- relal/target fps = 59.5/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set4

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-g-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

34.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '
video_9_G_AR_ROI1_(33)	'19.18'	'19.81'	'13.31'	'23.34'	'0.36'	'0.10'	'0.27'	'0.00'	'00:05:56'	'105.71'	'0.10'	'0.03'	'149.83'

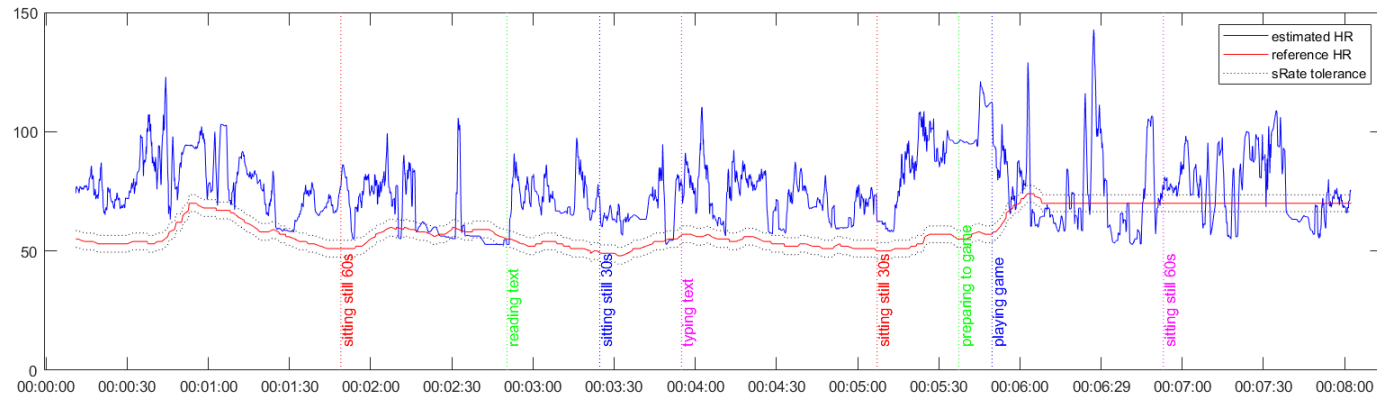
34.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '

Rozdział 34. video 9, G, AR_ROI1

1:sitting still 60s	'8.82'	'11.18'	'12.67'	'15.44'	'0.20'	'0.36'	'-0.14'	'0.00'	'00:01:01'	'107.76'	'0.01'	'0.01'	'13.56'
2:reading text	'20.46'	'20.57'	'8.05'	'21.98'	'0.39'	'0.03'	'-0.03'	'0.15'	'00:00:34'	'106.89'	'0.01'	'0.01'	'8.82'
3:sitting still 30s	'14.94'	'15.12'	'7.34'	'16.65'	'0.29'	'0.10'	'0.34'	'0.00'	'00:00:30'	'102.93'	'0.02'	'0.01'	'7.70'
4:typing text	'18.82'	'18.82'	'8.74'	'20.75'	'0.35'	'0.01'	'0.42'	'0.00'	'00:01:12'	'103.69'	'0.02'	'0.06'	'26.32'
5:sitting still 30s	'31.25'	'31.25'	'13.13'	'33.89'	'0.58'	'0.00'	'0.74'	'0.00'	'00:00:30'	'114.31'	'0.01'	'0.01'	'12.93'
6:preparing to game	'46.23'	'46.23'	'8.45'	'46.99'	'0.82'	'0.00'	'0.55'	'0.00'	'00:00:12'	'108.85'	'0.01'	'0.01'	'7.85'
7:playing game	'13.33'	'17.39'	'17.20'	'21.75'	'0.27'	'0.12'	'-0.39'	'0.00'	'00:00:17'	'99.03'	'0.01'	'0.00'	'8.73'
8:sitting still 60s	'100.00'	'100.00'	'0.00'	'100.00'	'Inf'	'0.00'	'NaN'	'NaN'	'00:00:00'	'105.94'	'0.01'	'0.03'	'49.18'

34.4. Experiment results (plots)



Rozdział 35. video 9, GRD, AR_ROI1

35.1. Experiment details

Experiment name : video 9, GRD, AR_ROI1

Date : 14-Dec-2018 12:31:53

Camera : RGBRealSense

- relal/target fps = 59.5/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set4

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-gr-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

35.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '
video_9_GRD_AR_ROI1_(34)	'25.95'	'26.88'	'23.92'	'35.29'	'0.49'	'0.13'	'-0.00'	'0.51'	'00:05:56'	'105.71'	'0.10'	'0.03'	'149.83'

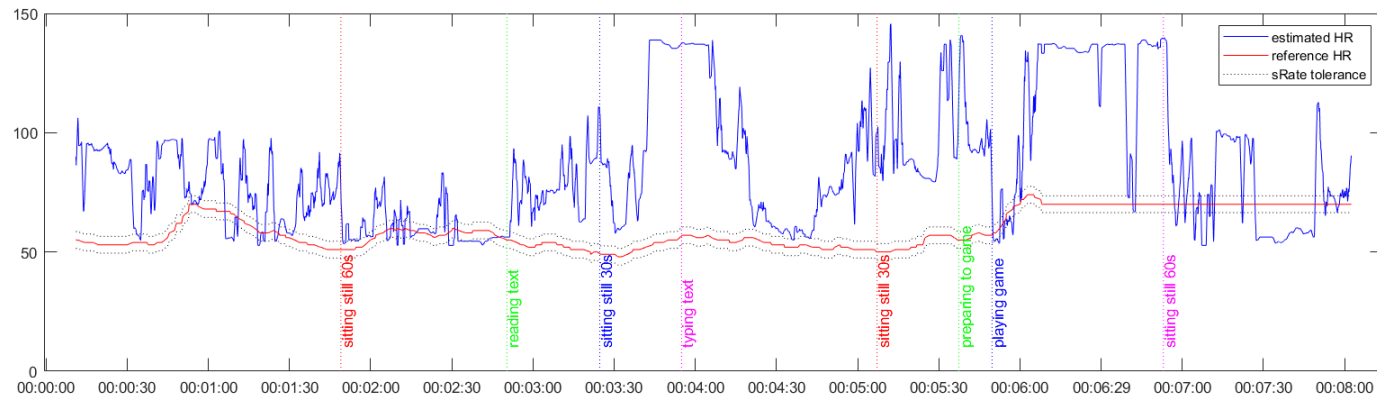
35.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '

Rozdział 35. video 9, GRD, AR_ROI1

1:sitting still 60s	'2.56'	'5.36'	'6.94'	'7.39'	'0.09'	'0.45'	'0.06'	'0.00'	'00:01:01'	'107.76'	'0.01'	'0.01'	'13.56'
2:reading text	'25.36'	'25.36'	'11.83'	'27.98'	'0.49'	'0.03'	'-0.45'	'0.00'	'00:00:34'	'106.89'	'0.01'	'0.01'	'8.82'
3:sitting still 30s	'49.94'	'49.94'	'28.96'	'57.72'	'0.95'	'0.00'	'0.91'	'0.00'	'00:00:30'	'102.93'	'0.02'	'0.01'	'7.70'
4:typing text	'34.37'	'34.37'	'26.04'	'43.12'	'0.63'	'0.03'	'0.56'	'0.00'	'00:01:12'	'103.69'	'0.02'	'0.06'	'26.32'
5:sitting still 30s	'44.90'	'44.90'	'18.84'	'48.69'	'0.84'	'0.00'	'0.08'	'0.00'	'00:00:30'	'114.31'	'0.01'	'0.01'	'12.93'
6:preparing to game	'46.01'	'46.01'	'16.78'	'48.97'	'0.82'	'0.00'	'-0.76'	'0.00'	'00:00:12'	'108.85'	'0.01'	'0.01'	'7.85'
7:playing game	'16.35'	'19.50'	'22.48'	'27.79'	'0.27'	'0.24'	'0.78'	'0.00'	'00:00:17'	'99.03'	'0.01'	'0.00'	'8.73'
8:sitting still 60s	'100.00'	'100.00'	'0.00'	'100.00'	'Inf'	'0.00'	'NaN'	'NaN'	'00:00:00'	'105.94'	'0.01'	'0.03'	'49.18'

35.4. Experiment results (plots)



Rozdział 36. video 9, ExG, AR_ROI1

36.1. Experiment details

Experiment name : video 9, ExG, AR_ROI1

Date : 14-Dec-2018 12:31:53

Camera : RGBRealSense

- relal/target fps = 59.5/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set4

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-exg-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

36.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '
video_9_ExG_AR_ROI1_(35)	'27.86'	'28.62'	'21.99'	'35.49'	'0.52'	'0.12'	'0.10'	'0.00'	'00:05:56'	'105.71'	'0.10'	'0.03'	'149.83'

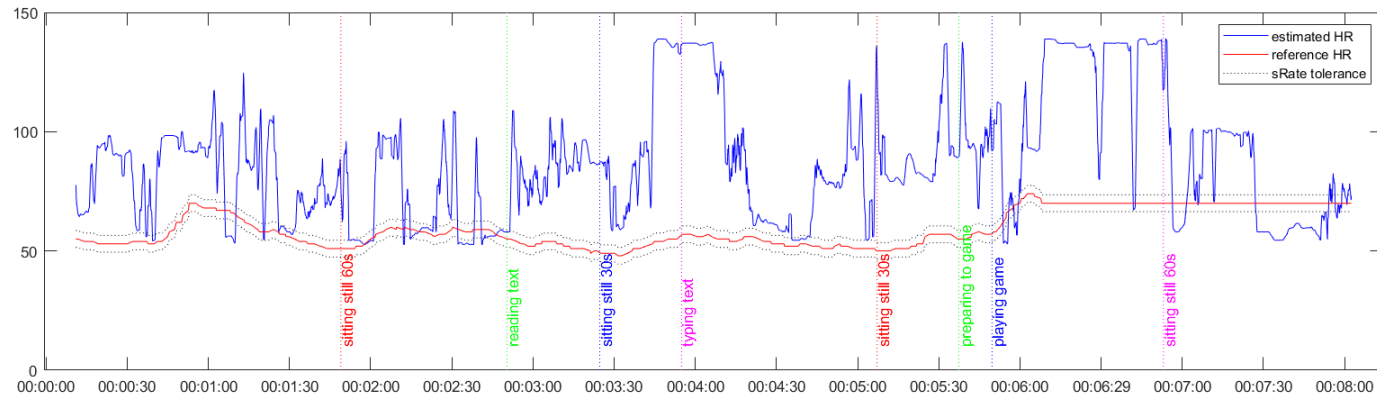
36.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '

Rozdział 36. video 9, ExG, AR_ROI1

1:sitting still 60s	'11.56'	'13.48'	'16.36'	'20.03'	'0.23'	'0.41'	'0.27'	'0.00'	'00:01:01'	'107.76'	'0.01'	'0.01'	'13.56'
2:reading text	'32.56'	'32.56'	'10.52'	'34.22'	'0.62'	'0.03'	'-0.22'	'0.00'	'00:00:34'	'106.89'	'0.01'	'0.01'	'8.82'
3:sitting still 30s	'46.83'	'46.83'	'27.54'	'54.32'	'0.89'	'0.00'	'0.92'	'0.00'	'00:00:30'	'102.93'	'0.02'	'0.01'	'7.70'
4:typing text	'33.94'	'33.94'	'27.48'	'43.67'	'0.63'	'0.09'	'0.57'	'0.00'	'00:01:12'	'103.69'	'0.02'	'0.06'	'26.32'
5:sitting still 30s	'36.48'	'36.48'	'13.42'	'38.87'	'0.68'	'0.00'	'0.40'	'0.00'	'00:00:30'	'114.31'	'0.01'	'0.01'	'12.93'
6:preparing to game	'40.77'	'40.77'	'14.50'	'43.27'	'0.72'	'0.00'	'-0.66'	'0.00'	'00:00:12'	'108.85'	'0.01'	'0.01'	'7.85'
7:playing game	'17.64'	'21.46'	'20.05'	'26.70'	'0.33'	'0.09'	'-0.04'	'0.26'	'00:00:17'	'99.03'	'0.01'	'0.00'	'8.73'
8:sitting still 60s	'100.00'	'100.00'	'0.00'	'100.00'	'Inf'	'0.00'	'NaN'	'NaN'	'00:00:00'	'105.94'	'0.01'	'0.03'	'49.18'

36.4. Experiment results (plots)



Rozdział 37. video 9, ICA, AR_ROI1

37.1. Experiment details

Experiment name : video 9, ICA, AR_ROI1

Date : 14-Dec-2018 12:31:53

Camera : RGBRealSense

- relal/target fps = 59.5/60

- nof dropped frames = 0

- swapRGB = 0

Person : trackedPerson_2

Face tracking algorithm name : faceTrackingMultiB_ver1

Face tracking parameter set name : set4

Face analysis algorithm name : faceAnalysis-ver1

Face analysis parameter set name : set1

Heart rate det. algorithm name : detectHR-4-wrapper

Heart rate det. algorithm param set name : set4-mcs-ica-bandpass-ar-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 3.60 [s]

37.2. Experiment results (whole sequence)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '
video_9_ICA_AR_ROI1_(36)	'24.06'	'24.40'	'18.01'	'30.05'	'0.44'	'0.09'	'0.10'	'0.00'	'00:05:56'	'105.71'	'0.10'	'0.03'	'149.83'

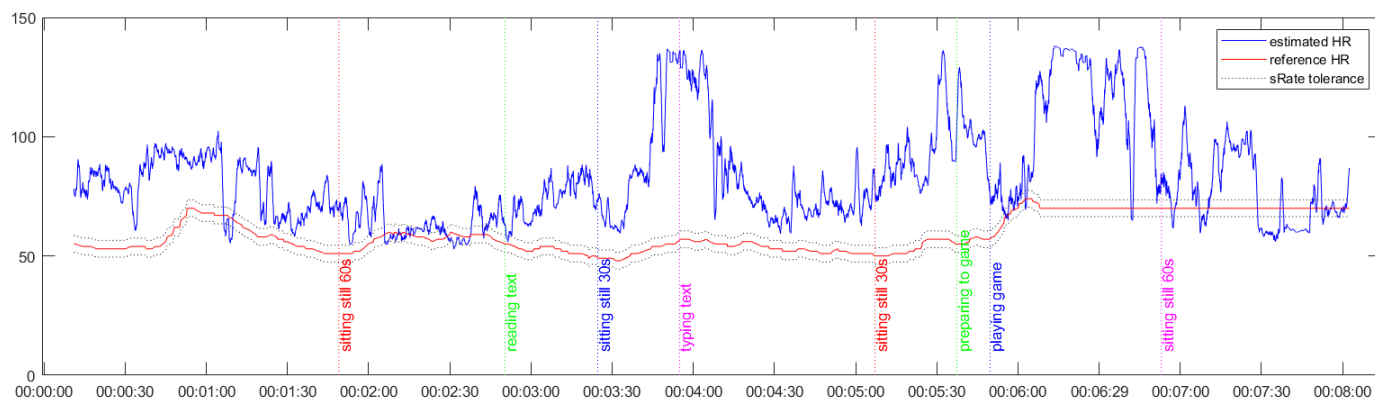
37.3. Experiment results (parts)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '

Rozdział 37. video 9, ICA, AR_ROI1

1:sitting still 60s	'6.50'	'7.76'	'8.18'	'10.44'	'0.14'	'0.39'	'-0.30'	'0.00'	'00:01:01'	'107.76'	'0.01'	'0.01'	'13.56'
2:reading text	'21.44'	'21.44'	'8.74'	'23.15'	'0.41'	'0.03'	'-0.52'	'0.00'	'00:00:34'	'106.89'	'0.01'	'0.01'	'8.82'
3:sitting still 30s	'39.64'	'39.64'	'23.87'	'46.27'	'0.75'	'0.00'	'0.94'	'0.00'	'00:00:30'	'102.93'	'0.02'	'0.01'	'7.70'
4:typing text	'29.16'	'29.16'	'19.51'	'35.08'	'0.54'	'0.00'	'0.70'	'0.00'	'00:01:12'	'103.69'	'0.02'	'0.06'	'26.32'
5:sitting still 30s	'39.11'	'39.11'	'13.49'	'41.37'	'0.73'	'0.00'	'0.57'	'0.00'	'00:00:30'	'114.31'	'0.01'	'0.01'	'12.93'
6:preparing to game	'45.74'	'45.74'	'11.75'	'47.22'	'0.81'	'0.00'	'-0.65'	'0.00'	'00:00:12'	'108.85'	'0.01'	'0.01'	'7.85'
7:playing game	'11.08'	'11.34'	'10.55'	'15.30'	'0.17'	'0.22'	'0.36'	'0.00'	'00:00:17'	'99.03'	'0.01'	'0.00'	'8.73'
8:sitting still 60s	'100.00'	'100.00'	'0.00'	'100.00'	'Inf'	'0.00'	'NaN'	'NaN'	'00:00:00'	'105.94'	'0.01'	'0.03'	'49.18'

37.4. Experiment results (plots)



Rozdział 38. All video sequences - results

38.1. experiment results (table)

	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '
video 1, G, AR ROI1	'-2.70'	'6.72'	'9.07'	'9.47'	'0.08'	'0.45'	'-0.07'	'0.00'	'00:05:45'	'71.98'	'0.13'	'0.02'	'64.42'
video 1, GRD, AR ROI1	'-0.64'	'3.47'	'4.58'	'4.63'	'0.04'	'0.62'	'0.35'	'0.00'	'00:05:45'	'71.98'	'0.13'	'0.02'	'64.42'
video 1, ExG, AR ROI1	'-0.18'	'2.60'	'3.51'	'3.52'	'0.03'	'0.74'	'0.46'	'0.00'	'00:05:45'	'71.98'	'0.13'	'0.02'	'64.42'
video 1, ICA, AR ROI1	'-0.69'	'4.57'	'6.30'	'6.34'	'0.06'	'0.55'	'-0.08'	'0.00'	'00:05:45'	'71.98'	'0.13'	'0.02'	'64.42'
video 2, G, AR ROI1	'-10.03'	'11.64'	'13.68'	'16.97'	'0.12'	'0.30'	'0.19'	'0.00'	'00:05:05'	'86.44'	'0.12'	'0.03'	'41.14'
video 2, GRD, AR ROI1	'-6.11'	'7.65'	'9.21'	'11.05'	'0.08'	'0.45'	'0.65'	'0.00'	'00:05:05'	'86.44'	'0.12'	'0.03'	'41.14'
video 2, ExG, AR ROI1	'-6.55'	'7.96'	'9.61'	'11.63'	'0.08'	'0.44'	'0.61'	'0.00'	'00:05:05'	'86.44'	'0.12'	'0.03'	'41.14'
video 2, ICA, AR ROI1	'-6.72'	'8.89'	'11.13'	'13.00'	'0.09'	'0.37'	'0.43'	'0.00'	'00:05:05'	'86.44'	'0.12'	'0.03'	'41.14'
video 3, G, AR ROI1	'5.70'	'8.97'	'14.53'	'15.61'	'0.12'	'0.48'	'-0.03'	'0.00'	'00:05:42'	'40.03'	'0.11'	'0.08'	'26.33'
video 3, GRD, AR ROI1	'6.19'	'9.49'	'14.01'	'15.32'	'0.13'	'0.45'	'0.05'	'0.00'	'00:05:42'	'40.03'	'0.11'	'0.08'	'26.33'
video 3, ExG, AR ROI1	'3.88'	'6.54'	'11.58'	'12.22'	'0.09'	'0.61'	'0.10'	'0.00'	'00:05:42'	'40.03'	'0.11'	'0.08'	'26.33'
video 3, ICA, AR ROI1	'2.51'	'3.34'	'4.31'	'4.99'	'0.05'	'0.68'	'0.52'	'0.00'	'00:05:42'	'40.03'	'0.11'	'0.08'	'26.33'
video 4, G, AR ROI1	'3.82'	'5.61'	'7.75'	'8.64'	'0.08'	'0.57'	'0.19'	'0.00'	'00:05:31'	'54.17'	'0.11'	'0.03'	'103.15'
video 4, GRD, AR ROI1	'5.17'	'6.98'	'11.21'	'12.35'	'0.10'	'0.57'	'0.23'	'0.00'	'00:05:31'	'54.17'	'0.11'	'0.03'	'103.15'
video 4, ExG, AR ROI1	'2.26'	'4.07'	'6.60'	'6.97'	'0.06'	'0.69'	'0.38'	'0.00'	'00:05:31'	'54.17'	'0.11'	'0.03'	'103.15'
video 4, ICA, AR ROI1	'4.14'	'4.51'	'3.98'	'5.74'	'0.07'	'0.47'	'0.49'	'0.00'	'00:05:31'	'54.17'	'0.11'	'0.03'	'103.15'
video 5, G, AR ROI1	'-0.42'	'2.49'	'3.87'	'3.90'	'0.03'	'0.80'	'0.52'	'0.00'	'00:06:00'	'964.84'	'0.12'	'0.02'	'160.19'
video 5, GRD, AR ROI1	'1.16'	'1.95'	'2.35'	'2.62'	'0.03'	'0.83'	'0.85'	'0.00'	'00:06:00'	'964.84'	'0.12'	'0.02'	'160.19'
video 5, ExG, AR ROI1	'0.81'	'1.98'	'2.45'	'2.59'	'0.03'	'0.82'	'0.83'	'0.00'	'00:06:00'	'964.84'	'0.12'	'0.02'	'160.19'
video 5, ICA, AR ROI1	'1.05'	'2.34'	'2.82'	'3.01'	'0.03'	'0.77'	'0.70'	'0.00'	'00:06:00'	'964.84'	'0.12'	'0.02'	'160.19'
video 6, G, AR ROI1	'8.96'	'13.64'	'17.19'	'19.39'	'0.18'	'0.23'	'-0.19'	'0.00'	'00:05:58'	'27.12'	'0.11'	'0.06'	'85.38'
video 6, GRD, AR ROI1	'7.57'	'11.51'	'15.47'	'17.23'	'0.15'	'0.27'	'-0.10'	'0.00'	'00:05:58'	'27.12'	'0.11'	'0.06'	'85.38'
video 6, ExG, AR ROI1	'6.80'	'8.39'	'13.83'	'15.41'	'0.11'	'0.46'	'0.15'	'0.00'	'00:05:58'	'27.12'	'0.11'	'0.06'	'85.38'
video 6, ICA, AR ROI1	'6.86'	'8.13'	'9.45'	'11.67'	'0.10'	'0.35'	'0.12'	'0.00'	'00:05:58'	'27.12'	'0.11'	'0.06'	'85.38'
video 7, G, AR ROI1	'2.24'	'3.04'	'4.89'	'5.38'	'0.05'	'0.76'	'0.40'	'0.00'	'00:06:08'	'150.44'	'0.13'	'0.07'	'68.98'
video 7, GRD, AR ROI1	'3.79'	'4.17'	'6.96'	'7.93'	'0.06'	'0.73'	'0.24'	'0.00'	'00:06:08'	'150.44'	'0.13'	'0.07'	'68.98'
video 7, ExG, AR ROI1	'3.37'	'3.78'	'5.84'	'6.75'	'0.06'	'0.71'	'0.32'	'0.00'	'00:06:08'	'150.44'	'0.13'	'0.07'	'68.98'
video 7, ICA, AR ROI1	'4.37'	'4.56'	'3.83'	'5.81'	'0.07'	'0.48'	'0.33'	'0.00'	'00:06:08'	'150.44'	'0.13'	'0.07'	'68.98'
video 8, G, AR ROI1	'4.28'	'8.39'	'15.03'	'15.63'	'0.11'	'0.53'	'0.18'	'0.00'	'00:06:07'	'49.16'	'0.10'	'0.07'	'30.34'
video 8, GRD, AR ROI1	'9.97'	'13.86'	'18.02'	'20.59'	'0.19'	'0.28'	'-0.18'	'0.00'	'00:06:07'	'49.16'	'0.10'	'0.07'	'30.34'
video 8, ExG, AR ROI1	'7.71'	'12.04'	'17.64'	'19.26'	'0.16'	'0.34'	'-0.17'	'0.00'	'00:06:07'	'49.16'	'0.10'	'0.07'	'30.34'
video 8, ICA, AR ROI1	'1.54'	'3.50'	'4.56'	'4.82'	'0.05'	'0.63'	'0.40'	'0.00'	'00:06:07'	'49.16'	'0.10'	'0.07'	'30.34'
video 9, G, AR ROI1	'19.18'	'19.81'	'13.31'	'23.34'	'0.36'	'0.10'	'0.27'	'0.00'	'00:05:56'	'105.71'	'0.10'	'0.03'	'149.83'
video 9, GRD, AR ROI1	'25.95'	'26.88'	'23.92'	'35.29'	'0.49'	'0.13'	'-0.00'	'0.51'	'00:05:56'	'105.71'	'0.10'	'0.03'	'149.83'
video 9, ExG, AR ROI1	'27.86'	'28.62'	'21.99'	'35.49'	'0.52'	'0.12'	'0.10'	'0.00'	'00:05:56'	'105.71'	'0.10'	'0.03'	'149.83'
video 9, ICA, AR ROI1	'24.06'	'24.40'	'18.01'	'30.05'	'0.44'	'0.09'	'0.10'	'0.00'	'00:05:56'	'105.71'	'0.10'	'0.03'	'149.83'