

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

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## 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)

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## Rozdział 2. video 1, G, WELCH\_ROI1

### 2.1. Experiment details

Experiment name : video 1, G, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(1)	'-3.55'	'7.56'	'10.14'	'10.74'	'0.09'	'0.48'	'-0.11'	'0.00'	'00:05:34'	'71.95'	'0.13'	'0.02'	'65.47'

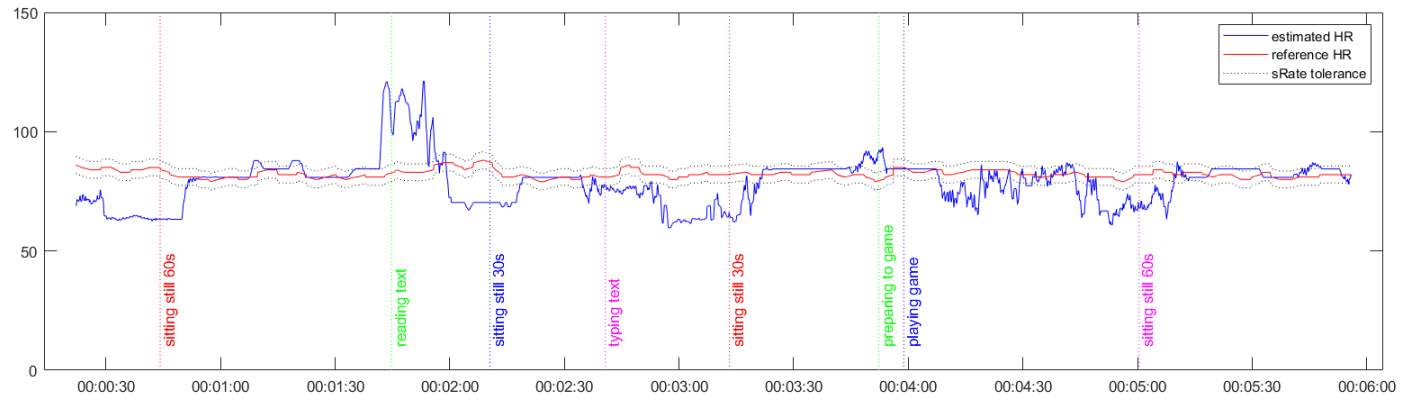
### 2.3. Experiment results (parts)

	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, WELCH\_ROI1

1:sitting still 60s	'0.73'	'4.94'	'9.51'	'9.54'	'0.06'	'0.74'	'0.04'	'0.03'	'00:01:01'	'77.70'	'0.02'	'0.01'	'13.95'
2:reading text	'3.30'	'17.33'	'19.11'	'19.38'	'0.21'	'0.10'	'-0.75'	'0.00'	'00:00:26'	'76.17'	'0.01'	'0.02'	'31.74'
3:sitting still 30s	'-4.03'	'4.69'	'5.57'	'6.87'	'0.06'	'0.57'	'-0.56'	'0.00'	'00:00:30'	'72.22'	'0.01'	'0.04'	'127.45'
4:typing text	'-12.88'	'12.88'	'5.40'	'13.96'	'0.16'	'0.01'	'0.52'	'0.00'	'00:00:32'	'61.42'	'0.01'	'0.08'	'17.20'
5:sitting still 30s	'-0.16'	'4.83'	'7.04'	'7.04'	'0.06'	'0.67'	'-0.25'	'0.00'	'00:00:39'	'65.91'	'0.01'	'0.01'	'22.35'
6:preparing to game	'3.41'	'3.94'	'4.78'	'5.87'	'0.05'	'0.72'	'-0.68'	'0.00'	'00:00:07'	'71.10'	'0.01'	'0.06'	'11.08'
7:playing game	'-5.63'	'6.40'	'6.16'	'8.34'	'0.08'	'0.42'	'0.43'	'0.00'	'00:01:02'	'70.21'	'0.01'	'0.03'	'59.91'
8:sitting still 60s	'-0.80'	'3.86'	'5.42'	'5.47'	'0.05'	'0.70'	'-0.43'	'0.00'	'00:00:56'	'73.48'	'0.01'	'0.03'	'6.30'

### 2.4. Experiment results (plots)



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## Rozdział 3. video 1, GRD, WELCH\_ROI1

### 3.1. Experiment details

Experiment name : video 1, GRD, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(2)	'0.11'	'3.03'	'4.45'	'4.45'	'0.04'	'0.76'	'0.18'	'0.00'	'00:05:34'	'71.95'	'0.13'	'0.02'	'65.47'

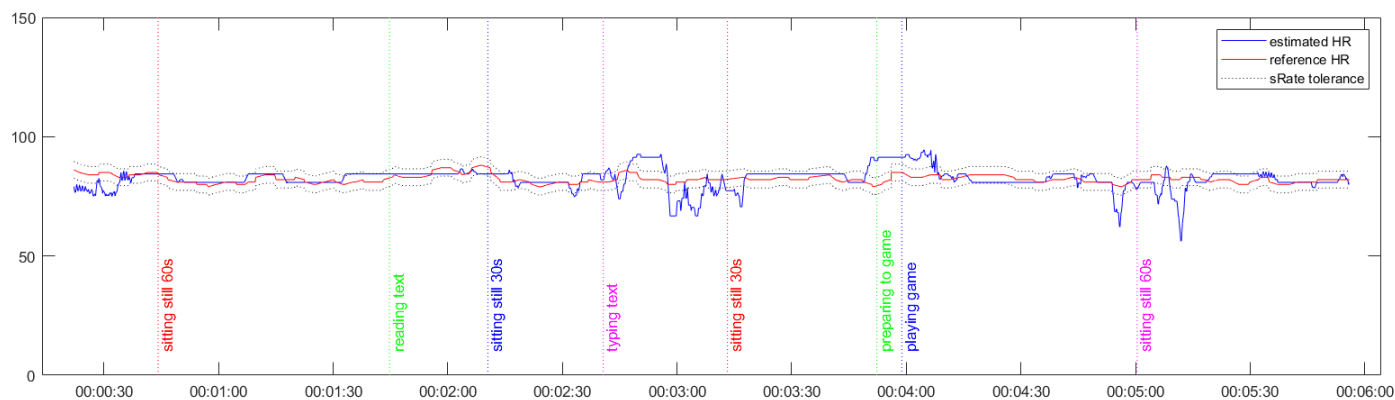
### 3.3. Experiment results (parts)

	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, WELCH\_ROI1

1:sitting still 60s	'1.10'	'1.42'	'1.49'	'1.85'	'0.02'	'0.97'	'0.51'	'0.00'	'00:01:01'	'77.70'	'0.02'	'0.01'	'13.95'
2:reading text	'-0.49'	'1.64'	'1.82'	'1.88'	'0.02'	'0.96'	'0.11'	'0.00'	'00:00:26'	'76.17'	'0.01'	'0.02'	'31.74'
3:sitting still 30s	'0.70'	'1.79'	'2.13'	'2.24'	'0.02'	'0.92'	'0.47'	'0.00'	'00:00:30'	'72.22'	'0.01'	'0.04'	'127.45'
4:typing text	'-1.21'	'6.96'	'7.85'	'7.94'	'0.08'	'0.21'	'0.29'	'0.00'	'00:00:32'	'61.42'	'0.01'	'0.08'	'17.20'
5:sitting still 30s	'1.13'	'2.87'	'3.82'	'3.98'	'0.04'	'0.81'	'-0.36'	'0.00'	'00:00:39'	'65.91'	'0.01'	'0.01'	'22.35'
6:preparing to game	'8.78'	'8.78'	'2.12'	'9.03'	'0.11'	'0.00'	'0.29'	'0.00'	'00:00:07'	'71.10'	'0.01'	'0.06'	'11.08'
7:playing game	'0.39'	'3.00'	'4.23'	'4.25'	'0.04'	'0.81'	'0.54'	'0.00'	'00:01:02'	'70.21'	'0.01'	'0.03'	'59.91'
8:sitting still 60s	'-0.70'	'2.86'	'4.64'	'4.69'	'0.03'	'0.79'	'-0.26'	'0.00'	'00:00:56'	'73.48'	'0.01'	'0.03'	'6.30'

### 3.4. Experiment results (plots)



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## Rozdział 4. video 1, ExG, WELCH\_ROI1

### 4.1. Experiment details

Experiment name : video 1, ExG, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(3)	'0.72'	'2.26'	'3.10'	'3.18'	'0.03'	'0.85'	'0.25'	'0.00'	'00:05:34'	'71.95'	'0.13'	'0.02'	'65.47'

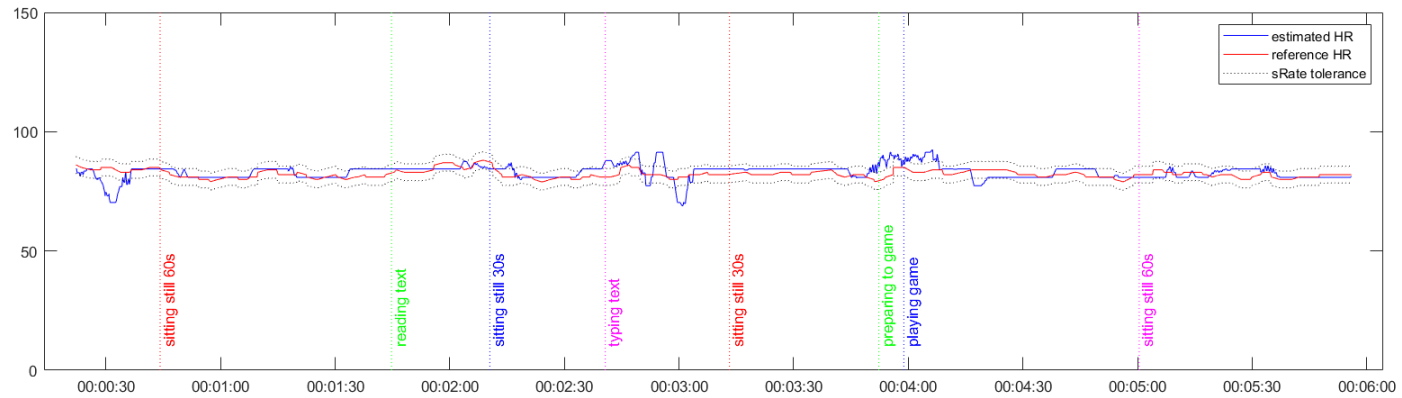
### 4.3. Experiment results (parts)

	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, WELCH\_ROI1

1:sitting still 60s	'1.16'	'1.40'	'1.39'	'1.81'	'0.02'	'0.98'	'0.58'	'0.00'	'00:01:01'	'77.70'	'0.02'	'0.01'	'13.95'
2:reading text	'-0.23'	'1.64'	'1.83'	'1.85'	'0.02'	'0.99'	'0.20'	'0.00'	'00:00:26'	'76.17'	'0.01'	'0.02'	'31.74'
3:sitting still 30s	'1.45'	'1.82'	'1.84'	'2.34'	'0.02'	'0.91'	'0.42'	'0.00'	'00:00:30'	'72.22'	'0.01'	'0.04'	'127.45'
4:typing text	'1.37'	'3.96'	'4.82'	'5.00'	'0.05'	'0.58'	'0.52'	'0.00'	'00:00:32'	'61.42'	'0.01'	'0.08'	'17.20'
5:sitting still 30s	'1.77'	'1.95'	'1.40'	'2.25'	'0.02'	'0.95'	'0.12'	'0.00'	'00:00:39'	'65.91'	'0.01'	'0.01'	'22.35'
6:preparing to game	'6.08'	'6.08'	'2.53'	'6.59'	'0.07'	'0.17'	'0.09'	'0.08'	'00:00:07'	'71.10'	'0.01'	'0.06'	'11.08'
7:playing game	'0.70'	'2.52'	'3.19'	'3.27'	'0.03'	'0.80'	'0.25'	'0.00'	'00:01:02'	'70.21'	'0.01'	'0.03'	'59.91'
8:sitting still 60s	'0.28'	'1.60'	'1.93'	'1.95'	'0.02'	'0.93'	'-0.09'	'0.00'	'00:00:56'	'73.48'	'0.01'	'0.03'	'6.30'

### 4.4. Experiment results (plots)



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## Rozdział 5. video 1, ICA, WELCH\_ROI1

### 5.1. Experiment details

Experiment name : video 1, ICA, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(4)	'-2.96'	'4.80'	'7.20'	'7.78'	'0.06'	'0.71'	'-0.25'	'0.00'	'00:05:34'	'71.95'	'0.13'	'0.02'	'65.47'

### 5.3. Experiment results (parts)

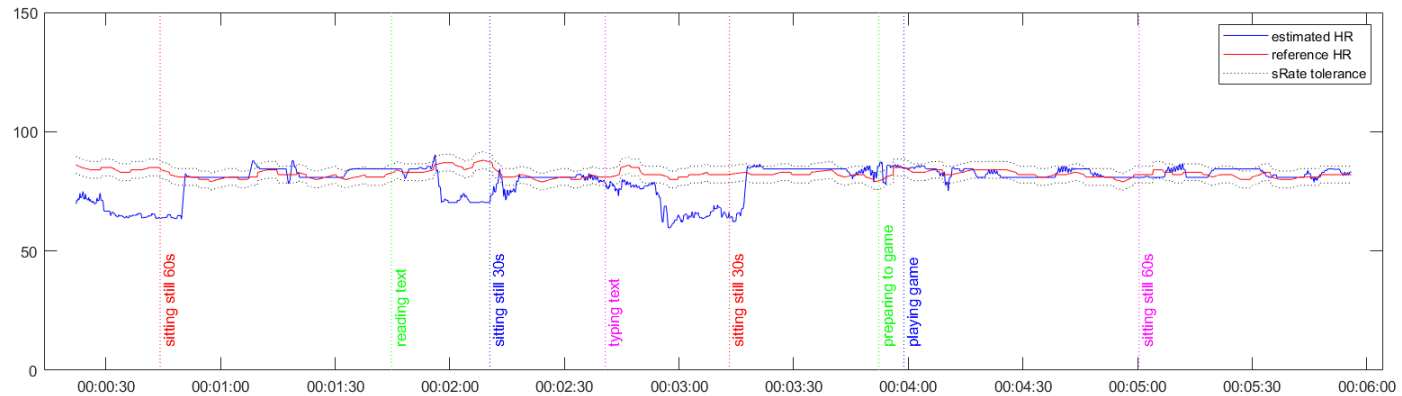
	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '



## Rozdział 5. video 1, ICA, WELCH\_ROI1

1:sitting still 60s	'-0.67'	'3.20'	'5.97'	'6.00'	'0.04'	'0.82'	'-0.11'	'0.00'	'00:01:01'	'77.70'	'0.02'	'0.01'	'13.95'
2:reading text	'-7.50'	'8.65'	'8.26'	'11.16'	'0.10'	'0.46'	'-0.79'	'0.00'	'00:00:26'	'76.17'	'0.01'	'0.02'	'31.74'
3:sitting still 30s	'-1.44'	'2.26'	'3.46'	'3.75'	'0.03'	'0.81'	'-0.50'	'0.00'	'00:00:30'	'72.22'	'0.01'	'0.04'	'127.45'
4:typing text	'-12.03'	'12.03'	'5.68'	'13.30'	'0.15'	'0.04'	'0.56'	'0.00'	'00:00:32'	'61.42'	'0.01'	'0.08'	'17.20'
5:sitting still 30s	'-0.03'	'3.64'	'6.00'	'6.00'	'0.04'	'0.81'	'-0.08'	'0.00'	'00:00:39'	'65.91'	'0.01'	'0.01'	'22.35'
6:preparing to game	'2.06'	'2.59'	'2.81'	'3.48'	'0.03'	'0.64'	'0.30'	'0.00'	'00:00:07'	'71.10'	'0.01'	'0.06'	'11.08'
7:playing game	'0.04'	'1.43'	'1.75'	'1.75'	'0.02'	'0.99'	'0.40'	'0.00'	'00:01:02'	'70.21'	'0.01'	'0.03'	'59.91'
8:sitting still 60s	'0.77'	'1.81'	'2.00'	'2.14'	'0.02'	'0.92'	'-0.07'	'0.00'	'00:00:56'	'73.48'	'0.01'	'0.03'	'6.30'

### 5.4. Experiment results (plots)



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## Rozdział 6. video 2, G, WELCH\_ROI1

### 6.1. Experiment details

Experiment name : video 2, G, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(5)	'-9.61'	'11.49'	'13.44'	'16.52'	'0.11'	'0.27'	'0.14'	'0.00'	'00:04:54'	'86.09'	'0.12'	'0.03'	'41.04'

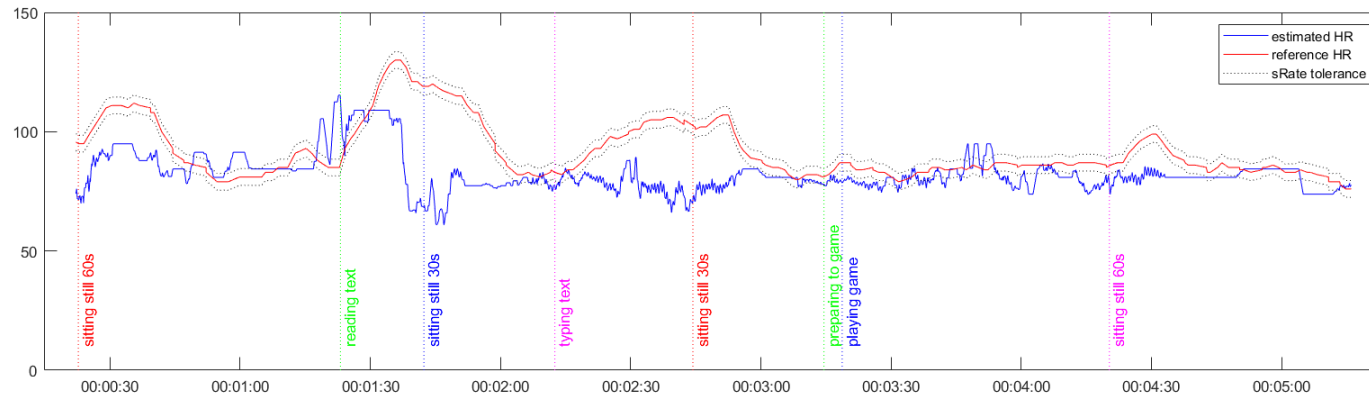
### 6.3. Experiment results (parts)

	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, WELCH\_ROI1

1:sitting still 60s	'-4.60'	'10.56'	'12.21'	'13.04'	'0.11'	'0.24'	'0.15'	'0.00'	'00:01:00'	'92.21'	'0.01'	'0.01'	'11.19'
2:reading text	'-17.31'	'21.64'	'22.78'	'28.60'	'0.18'	'0.14'	'-0.28'	'0.00'	'00:00:19'	'91.97'	'0.01'	'0.02'	'42.21'
3:sitting still 30s	'-22.41'	'22.44'	'18.02'	'28.75'	'0.20'	'0.19'	'-0.49'	'0.00'	'00:00:30'	'80.78'	'0.01'	'0.03'	'5.04'
4:typing text	'-19.06'	'19.08'	'11.00'	'22.01'	'0.19'	'0.09'	'-0.52'	'0.00'	'00:00:32'	'72.82'	'0.01'	'0.06'	'10.52'
5:sitting still 30s	'-11.55'	'11.58'	'11.09'	'16.01'	'0.12'	'0.31'	'-0.46'	'0.00'	'00:00:30'	'89.65'	'0.01'	'0.01'	'10.67'
6:preparing to game	'-4.66'	'4.66'	'2.17'	'5.14'	'0.05'	'0.37'	'0.14'	'0.02'	'00:00:04'	'79.38'	'0.01'	'0.02'	'17.09'
7:playing game	'-3.84'	'5.26'	'4.90'	'6.22'	'0.06'	'0.35'	'0.03'	'0.08'	'00:01:02'	'77.57'	'0.01'	'0.04'	'29.72'
8:sitting still 60s	'-5.60'	'5.98'	'5.24'	'7.67'	'0.07'	'0.36'	'0.35'	'0.00'	'00:00:56'	'95.78'	'0.01'	'0.02'	'55.97'

### 6.4. Experiment results (plots)



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## Rozdział 7. video 2, GRD, WELCH\_ROI1

### 7.1. Experiment details

Experiment name : video 2, GRD, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(6)	'-9.86'	'10.43'	'11.60'	'15.22'	'0.10'	'0.41'	'0.30'	'0.00'	'00:04:54'	'86.09'	'0.12'	'0.03'	'41.04'

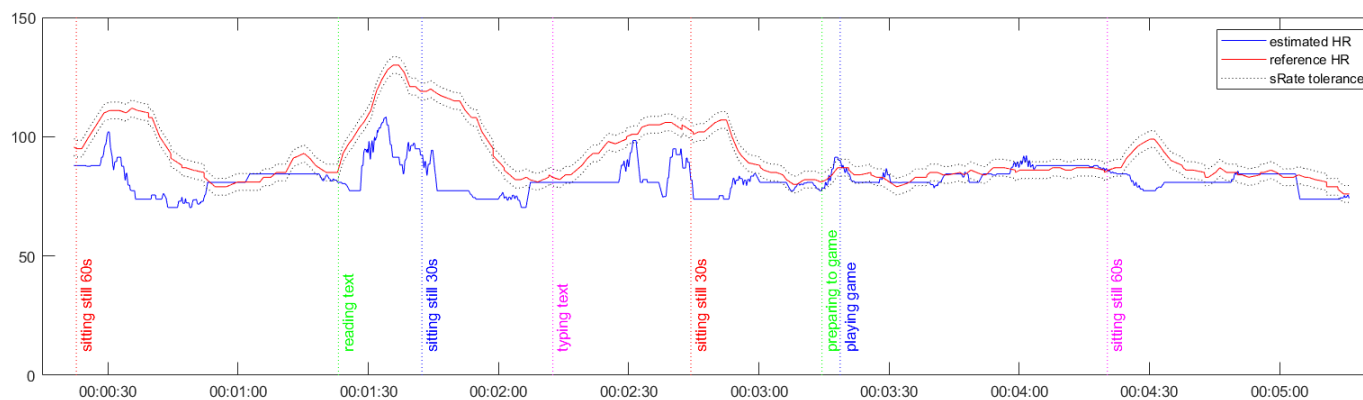
### 7.3. Experiment results (parts)

	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, WELCH\_ROI1

1:sitting still 60s	'-10.84'	'11.58'	'11.81'	'16.03'	'0.12'	'0.38'	'0.17'	'0.00'	'00:01:00'	'92.21'	'0.01'	'0.01'	'11.19'
2:reading text	'-23.54'	'23.54'	'8.83'	'25.14'	'0.20'	'0.00'	'0.72'	'0.00'	'00:00:19'	'91.97'	'0.01'	'0.02'	'42.21'
3:sitting still 30s	'-21.33'	'21.33'	'13.92'	'25.47'	'0.20'	'0.18'	'0.38'	'0.00'	'00:00:30'	'80.78'	'0.01'	'0.03'	'5.04'
4:typing text	'-13.17'	'13.17'	'7.82'	'15.31'	'0.13'	'0.16'	'0.36'	'0.00'	'00:00:32'	'72.82'	'0.01'	'0.06'	'10.52'
5:sitting still 30s	'-12.54'	'12.54'	'11.95'	'17.32'	'0.13'	'0.29'	'-0.68'	'0.00'	'00:00:30'	'89.65'	'0.01'	'0.01'	'10.67'
6:preparing to game	'0.92'	'2.77'	'3.01'	'3.14'	'0.03'	'0.76'	'0.97'	'0.00'	'00:00:04'	'79.38'	'0.01'	'0.02'	'17.09'
7:playing game	'-0.45'	'1.93'	'2.33'	'2.37'	'0.02'	'0.86'	'0.67'	'0.00'	'00:01:02'	'77.57'	'0.01'	'0.04'	'29.72'
8:sitting still 60s	'-5.75'	'6.07'	'6.06'	'8.35'	'0.07'	'0.41'	'0.16'	'0.00'	'00:00:56'	'95.78'	'0.01'	'0.02'	'55.97'

### 7.4. Experiment results (plots)



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## Rozdział 8. video 2, ExG, WELCH\_ROI1

### 8.1. Experiment details

Experiment name : video 2, ExG, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(7)	'-9.86'	'10.49'	'12.16'	'15.66'	'0.10'	'0.39'	'0.23'	'0.00'	'00:04:54'	'86.09'	'0.12'	'0.03'	'41.04'

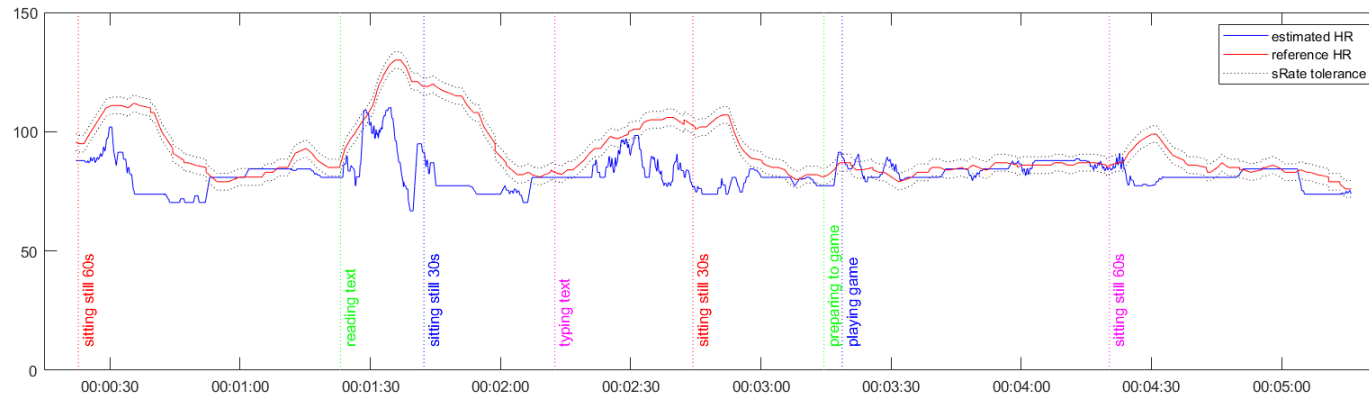
### 8.3. Experiment results (parts)

	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, WELCH\_ROI1

1:sitting still 60s	'-11.14'	'11.95'	'11.88'	'16.28'	'0.12'	'0.32'	'0.18'	'0.00'	'00:01:00'	'92.21'	'0.01'	'0.01'	'11.19'
2:reading text	'-23.05'	'23.31'	'16.20'	'28.17'	'0.20'	'0.07'	'0.15'	'0.00'	'00:00:19'	'91.97'	'0.01'	'0.02'	'42.21'
3:sitting still 30s	'-21.73'	'21.73'	'14.43'	'26.08'	'0.20'	'0.18'	'0.28'	'0.00'	'00:00:30'	'80.78'	'0.01'	'0.03'	'5.04'
4:typing text	'-12.14'	'12.14'	'8.35'	'14.74'	'0.12'	'0.22'	'0.27'	'0.00'	'00:00:32'	'72.82'	'0.01'	'0.06'	'10.52'
5:sitting still 30s	'-12.55'	'12.56'	'11.55'	'17.06'	'0.13'	'0.25'	'-0.62'	'0.00'	'00:00:30'	'89.65'	'0.01'	'0.01'	'10.67'
6:preparing to game	'-2.01'	'4.36'	'4.12'	'4.58'	'0.05'	'0.18'	'0.93'	'0.00'	'00:00:04'	'79.38'	'0.01'	'0.02'	'17.09'
7:playing game	'-0.34'	'1.94'	'2.44'	'2.47'	'0.02'	'0.84'	'0.52'	'0.00'	'00:01:02'	'77.57'	'0.01'	'0.04'	'29.72'
8:sitting still 60s	'-5.89'	'6.25'	'6.17'	'8.52'	'0.07'	'0.38'	'0.14'	'0.00'	'00:00:56'	'95.78'	'0.01'	'0.02'	'55.97'

### 8.4. Experiment results (plots)



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## Rozdział 9. video 2, ICA, WELCH\_ROI1

### 9.1. Experiment details

Experiment name : video 2, ICA, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(8)	'-8.93'	'9.75'	'11.68'	'14.70'	'0.10'	'0.40'	'0.35'	'0.00'	'00:04:54'	'86.09'	'0.12'	'0.03'	'41.04'

### 9.3. Experiment results (parts)

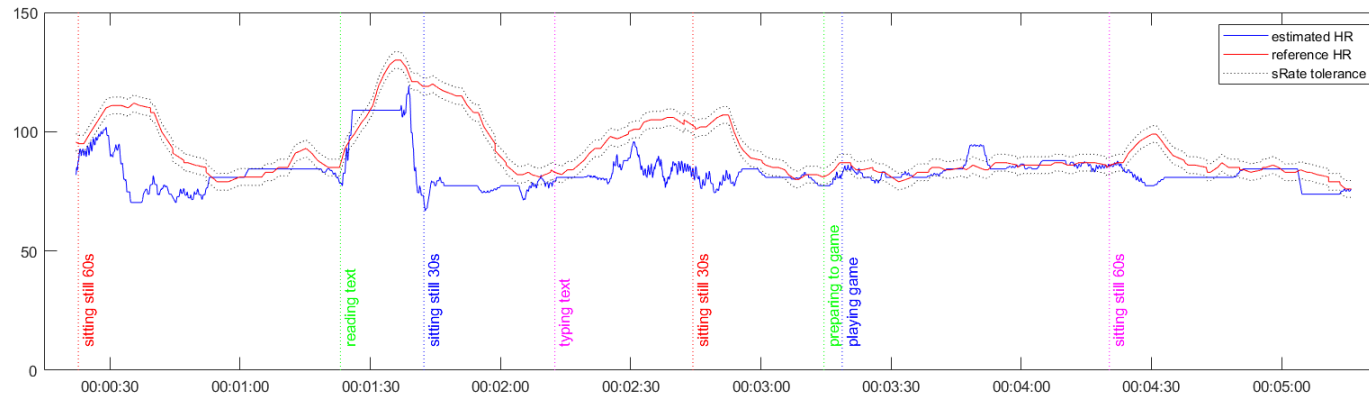
	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '



## Rozdział 9. video 2, ICA, WELCH\_ROI1

1:sitting still 60s	'-10.23'	'11.06'	'12.47'	'16.13'	'0.11'	'0.40'	'0.12'	'0.00'	'00:01:00'	'92.21'	'0.01'	'0.01'	'11.19'
2:reading text	'-12.51'	'15.17'	'15.14'	'19.63'	'0.13'	'0.16'	'0.27'	'0.00'	'00:00:19'	'91.97'	'0.01'	'0.02'	'42.21'
3:sitting still 30s	'-22.26'	'22.26'	'15.41'	'27.07'	'0.21'	'0.06'	'-0.10'	'0.00'	'00:00:30'	'80.78'	'0.01'	'0.03'	'5.04'
4:typing text	'-13.26'	'13.26'	'7.05'	'15.02'	'0.13'	'0.13'	'0.46'	'0.00'	'00:00:32'	'72.82'	'0.01'	'0.06'	'10.52'
5:sitting still 30s	'-10.61'	'10.71'	'10.31'	'14.79'	'0.11'	'0.25'	'-0.24'	'0.00'	'00:00:30'	'89.65'	'0.01'	'0.01'	'10.67'
6:preparing to game	'-4.64'	'4.64'	'0.90'	'4.73'	'0.06'	'0.12'	'0.89'	'0.00'	'00:00:04'	'79.38'	'0.01'	'0.02'	'17.09'
7:playing game	'-0.14'	'2.08'	'2.96'	'2.96'	'0.02'	'0.87'	'0.48'	'0.00'	'00:01:02'	'77.57'	'0.01'	'0.04'	'29.72'
8:sitting still 60s	'-5.68'	'5.99'	'5.99'	'8.25'	'0.07'	'0.40'	'0.18'	'0.00'	'00:00:56'	'95.78'	'0.01'	'0.02'	'55.97'

### 9.4. Experiment results (plots)



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## Rozdział 10. video 3, G, WELCH\_ROI1

### 10.1. Experiment details

Experiment name : video 3, G, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(9)	'6.84'	'9.64'	'15.03'	'16.51'	'0.13'	'0.47'	'-0.13'	'0.00'	'00:05:30'	'39.90'	'0.11'	'0.08'	'26.67'

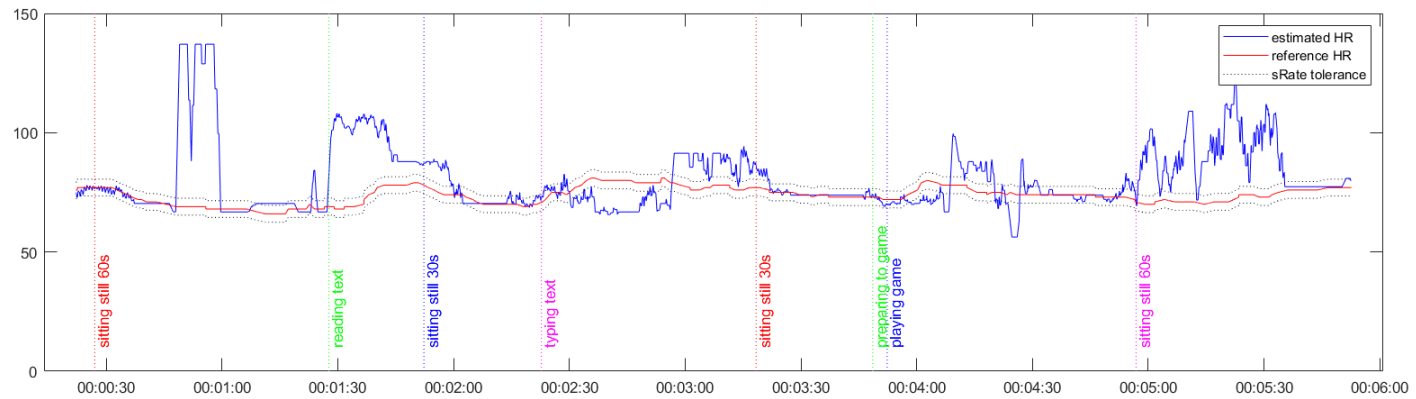
### 10.3. Experiment results (parts)

	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, WELCH\_ROI1

1:sitting still 60s	'11.15'	'12.31'	'23.22'	'25.76'	'0.18'	'0.66'	'-0.06'	'0.00'	'00:01:01'	'43.74'	'0.01'	'0.03'	'21.80'
2:reading text	'23.60'	'23.60'	'11.27'	'26.15'	'0.33'	'0.00'	'-0.70'	'0.00'	'00:00:25'	'43.01'	'0.01'	'0.04'	'57.39'
3:sitting still 30s	'2.99'	'3.58'	'4.69'	'5.56'	'0.05'	'0.70'	'0.85'	'0.00'	'00:00:30'	'42.23'	'0.01'	'0.10'	'8.38'
4:typing text	'-0.04'	'9.23'	'10.20'	'10.20'	'0.12'	'0.13'	'-0.42'	'0.00'	'00:00:56'	'38.71'	'0.01'	'0.11'	'39.06'
5:sitting still 30s	'1.09'	'1.34'	'2.11'	'2.38'	'0.02'	'0.88'	'0.82'	'0.00'	'00:00:30'	'39.75'	'0.01'	'0.02'	'15.31'
6:preparing to game	'-1.04'	'1.30'	'1.16'	'1.56'	'0.02'	'1.00'	'0.93'	'0.00'	'00:00:04'	'34.94'	'0.01'	'0.03'	'24.44'
7:playing game	'0.36'	'4.95'	'6.95'	'6.96'	'0.07'	'0.52'	'0.20'	'0.00'	'00:01:04'	'35.42'	'0.01'	'0.07'	'35.03'
8:sitting still 60s	'15.51'	'15.52'	'13.05'	'20.26'	'0.22'	'0.31'	'-0.47'	'0.00'	'00:00:56'	'39.47'	'0.01'	'0.04'	'56.84'

### 10.4. Experiment results (plots)



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## Rozdział 11. video 3, GRD, WELCH\_ROI1

### 11.1. Experiment details

Experiment name : video 3, GRD, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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__WELCH_ROI1_(10)	'6.32'	'8.65'	'12.42'	'13.94'	'0.12'	'0.49'	'0.04'	'0.00'	'00:05:30'	'39.90'	'0.11'	'0.08'	'26.67'

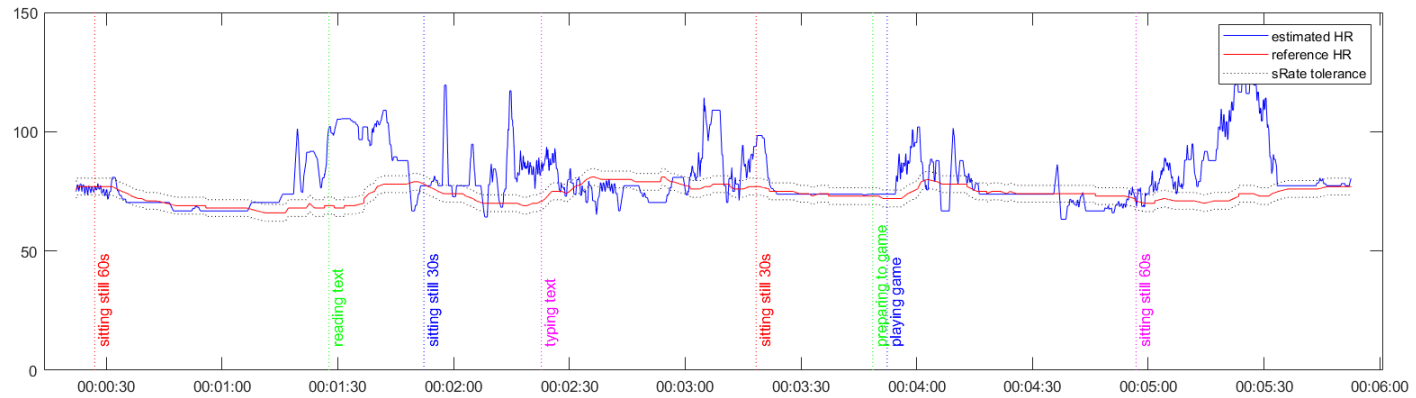
### 11.3. Experiment results (parts)

	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, WELCH\_ROI1

1:sitting still 60s	'2.82'	'4.69'	'7.51'	'8.02'	'0.07'	'0.66'	'0.12'	'0.00'	'00:01:01'	'43.74'	'0.01'	'0.03'	'21.80'
2:reading text	'20.94'	'22.90'	'14.83'	'25.65'	'0.32'	'0.06'	'-0.63'	'0.00'	'00:00:25'	'43.01'	'0.01'	'0.04'	'57.39'
3:sitting still 30s	'10.15'	'10.68'	'11.03'	'14.99'	'0.15'	'0.32'	'-0.10'	'0.00'	'00:00:30'	'42.23'	'0.01'	'0.10'	'8.38'
4:typing text	'2.86'	'8.19'	'10.89'	'11.26'	'0.11'	'0.37'	'-0.40'	'0.00'	'00:00:56'	'38.71'	'0.01'	'0.11'	'39.06'
5:sitting still 30s	'2.08'	'2.55'	'5.76'	'6.12'	'0.03'	'0.88'	'0.76'	'0.00'	'00:00:30'	'39.75'	'0.01'	'0.02'	'15.31'
6:preparing to game	'1.26'	'1.26'	'0.45'	'1.34'	'0.02'	'1.00'	'NaN'	'NaN'	'00:00:04'	'34.94'	'0.01'	'0.03'	'24.44'
7:playing game	'0.85'	'5.03'	'7.37'	'7.42'	'0.07'	'0.51'	'0.44'	'0.00'	'00:01:04'	'35.42'	'0.01'	'0.07'	'35.03'
8:sitting still 60s	'14.63'	'14.68'	'15.59'	'21.38'	'0.20'	'0.37'	'-0.17'	'0.00'	'00:00:56'	'39.47'	'0.01'	'0.04'	'56.84'

### 11.4. Experiment results (plots)



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## Rozdział 12. video 3, ExG, WELCH\_ROI1

### 12.1. Experiment details

Experiment name : video 3, ExG, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(11)	'4.63'	'7.27'	'11.99'	'12.85'	'0.10'	'0.57'	'-0.03'	'0.00'	'00:05:30'	'39.90'	'0.11'	'0.08'	'26.67'

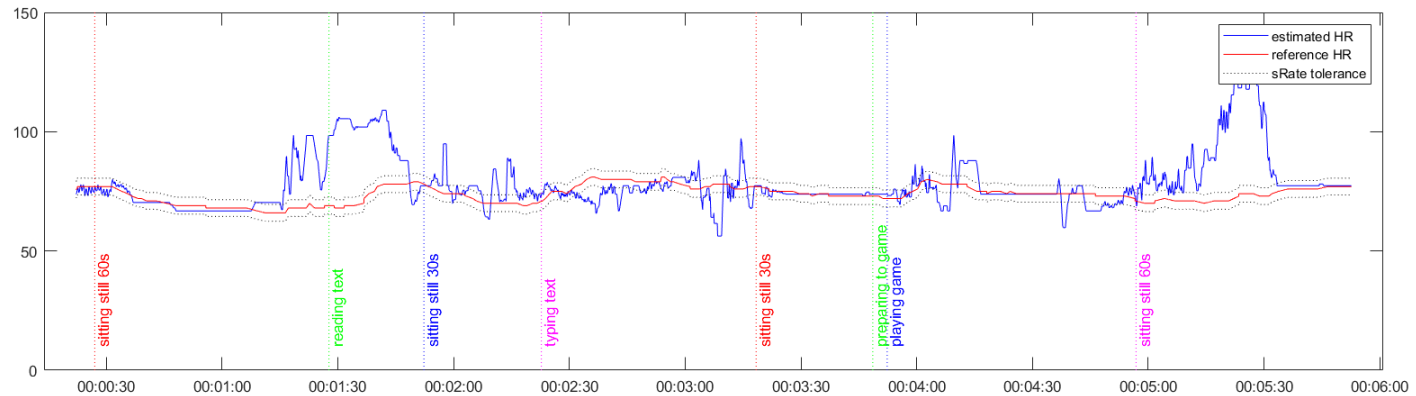
### 12.3. Experiment results (parts)

	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, WELCH\_ROI1

1:sitting still 60s	'3.60'	'5.20'	'8.58'	'9.31'	'0.08'	'0.70'	'0.10'	'0.00'	'00:01:01'	'43.74'	'0.01'	'0.03'	'21.80'
2:reading text	'22.16'	'23.72'	'14.40'	'26.42'	'0.33'	'0.06'	'-0.59'	'0.00'	'00:00:25'	'43.01'	'0.01'	'0.04'	'57.39'
3:sitting still 30s	'4.23'	'5.07'	'5.60'	'7.01'	'0.07'	'0.48'	'0.27'	'0.00'	'00:00:30'	'42.23'	'0.01'	'0.10'	'8.38'
4:typing text	'-2.60'	'5.01'	'6.29'	'6.80'	'0.06'	'0.50'	'-0.16'	'0.00'	'00:00:56'	'38.71'	'0.01'	'0.11'	'39.06'
5:sitting still 30s	'0.05'	'0.73'	'0.92'	'0.92'	'0.01'	'1.00'	'0.64'	'0.00'	'00:00:30'	'39.75'	'0.01'	'0.02'	'15.31'
6:preparing to game	'1.26'	'1.26'	'0.45'	'1.34'	'0.02'	'1.00'	'NaN'	'NaN'	'00:00:04'	'34.94'	'0.01'	'0.03'	'24.44'
7:playing game	'-0.35'	'3.58'	'5.25'	'5.26'	'0.05'	'0.65'	'0.41'	'0.00'	'00:01:04'	'35.42'	'0.01'	'0.07'	'35.03'
8:sitting still 60s	'14.42'	'14.44'	'16.20'	'21.69'	'0.20'	'0.38'	'-0.19'	'0.00'	'00:00:56'	'39.47'	'0.01'	'0.04'	'56.84'

### 12.4. Experiment results (plots)



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## Rozdział 13. video 3, ICA, WELCH\_ROI1

### 13.1. Experiment details

Experiment name : video 3, ICA, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(12)	'0.34'	'1.95'	'2.76'	'2.78'	'0.03'	'0.83'	'0.78'	'0.00'	'00:05:30'	'39.90'	'0.11'	'0.08'	'26.67'

### 13.3. Experiment results (parts)

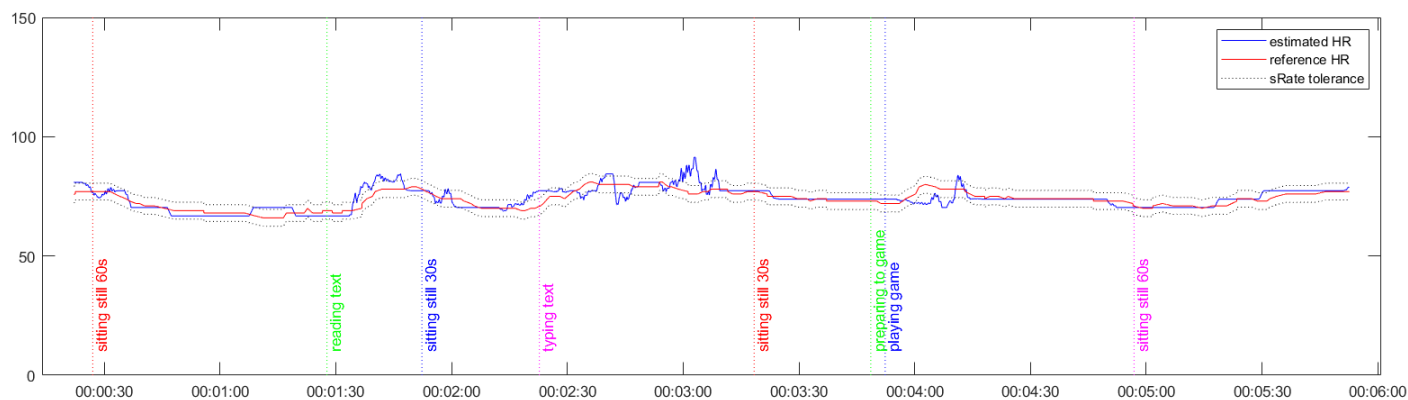
	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '



## Rozdział 13. video 3, ICA, WELCH\_ROI1

1:sitting still 60s	'-0.17'	'1.84'	'2.15'	'2.16'	'0.03'	'0.88'	'0.79'	'0.00'	'00:01:01'	'43.74'	'0.01'	'0.03'	'21.80'
2:reading text	'2.03'	'3.39'	'3.43'	'3.99'	'0.05'	'0.58'	'0.84'	'0.00'	'00:00:25'	'43.01'	'0.01'	'0.04'	'57.39'
3:sitting still 30s	'0.56'	'1.95'	'2.61'	'2.67'	'0.03'	'0.82'	'0.50'	'0.00'	'00:00:30'	'42.23'	'0.01'	'0.10'	'8.38'
4:typing text	'1.27'	'3.06'	'3.92'	'4.12'	'0.04'	'0.66'	'0.02'	'0.32'	'00:00:56'	'38.71'	'0.01'	'0.11'	'39.06'
5:sitting still 30s	'0.27'	'0.73'	'0.80'	'0.84'	'0.01'	'1.00'	'0.78'	'0.00'	'00:00:30'	'39.75'	'0.01'	'0.02'	'15.31'
6:preparing to game	'1.26'	'1.26'	'0.45'	'1.34'	'0.02'	'1.00'	'NaN'	'NaN'	'00:00:04'	'34.94'	'0.01'	'0.03'	'24.44'
7:playing game	'-1.25'	'1.79'	'2.52'	'2.81'	'0.02'	'0.83'	'0.22'	'0.00'	'00:01:04'	'35.42'	'0.01'	'0.07'	'35.03'
8:sitting still 60s	'0.66'	'1.10'	'1.31'	'1.46'	'0.02'	'0.97'	'0.92'	'0.00'	'00:00:56'	'39.47'	'0.01'	'0.04'	'56.84'

### 13.4. Experiment results (plots)



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## Rozdział 14. video 4, G, WELCH\_ROI1

### 14.1. Experiment details

Experiment name : video 4, G, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(13)	'4.99'	'6.56'	'8.78'	'10.10'	'0.10'	'0.45'	'-0.01'	'0.04'	'00:05:20'	'53.90'	'0.11'	'0.03'	'105.00'

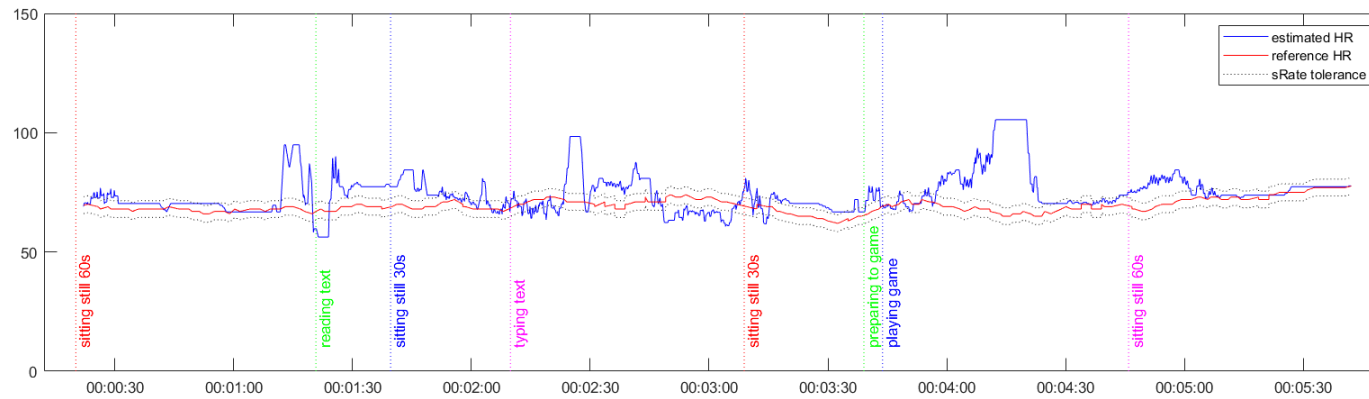
### 14.3. Experiment results (parts)

	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, WELCH\_ROI1

1:sitting still 60s	'3.87'	'4.42'	'6.52'	'7.58'	'0.07'	'0.71'	'0.32'	'0.00'	'00:00:59'	'59.88'	'0.01'	'0.01'	'4.60'
2:reading text	'5.52'	'9.24'	'7.99'	'9.70'	'0.14'	'0.01'	'0.48'	'0.00'	'00:00:19'	'58.93'	'0.01'	'0.02'	'27.72'
3:sitting still 30s	'5.34'	'5.53'	'4.87'	'7.23'	'0.08'	'0.46'	'0.18'	'0.00'	'00:00:30'	'58.54'	'0.01'	'0.05'	'93.87'
4:typing text	'1.51'	'7.43'	'9.31'	'9.43'	'0.10'	'0.22'	'-0.40'	'0.00'	'00:00:59'	'56.95'	'0.01'	'0.09'	'250.95'
5:sitting still 30s	'4.14'	'4.84'	'3.08'	'5.16'	'0.07'	'0.20'	'0.41'	'0.00'	'00:00:30'	'53.11'	'0.01'	'0.01'	'4.37'
6:preparing to game	'5.81'	'5.82'	'3.11'	'6.58'	'0.09'	'0.21'	'0.10'	'0.09'	'00:00:05'	'46.90'	'0.01'	'0.05'	'16.37'
7:playing game	'10.69'	'11.01'	'13.23'	'17.01'	'0.16'	'0.46'	'-0.58'	'0.00'	'00:01:02'	'46.30'	'0.01'	'0.05'	'18.61'
8:sitting still 60s	'3.51'	'3.62'	'4.19'	'5.47'	'0.05'	'0.69'	'-0.12'	'0.00'	'00:00:56'	'49.68'	'0.01'	'0.02'	'7.19'

### 14.4. Experiment results (plots)



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## Rozdział 15. video 4, GRD, WELCH\_ROI1

### 15.1. Experiment details

Experiment name : video 4, GRD, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(14)	'5.37'	'6.95'	'10.26'	'11.59'	'0.10'	'0.55'	'0.17'	'0.00'	'00:05:20'	'53.90'	'0.11'	'0.03'	'105.00'

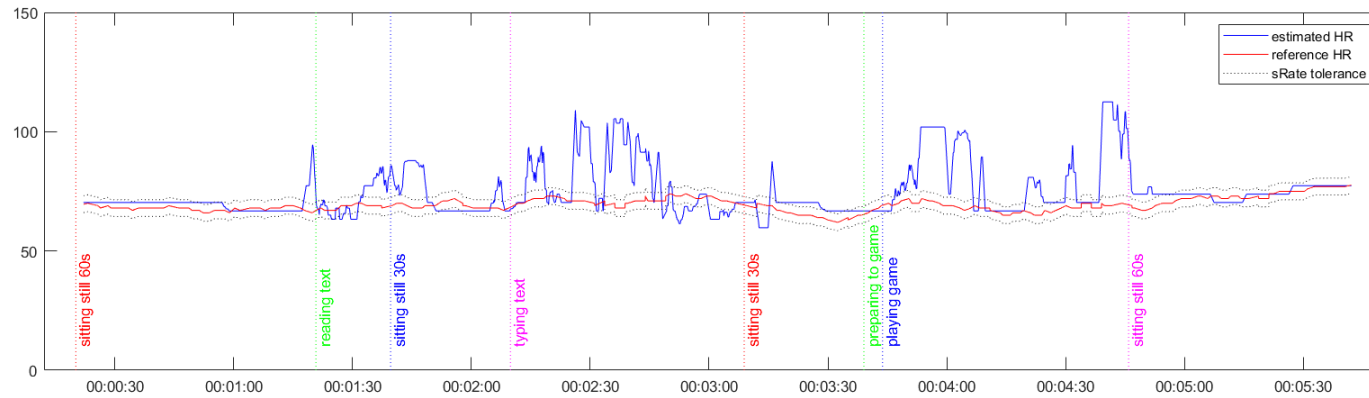
### 15.3. Experiment results (parts)

	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, WELCH\_ROI1

1:sitting still 60s	'1.89'	'2.62'	'3.85'	'4.29'	'0.04'	'0.89'	'-0.29'	'0.00'	'00:00:59'	'59.88'	'0.01'	'0.01'	'4.60'
2:reading text	'3.00'	'5.75'	'6.70'	'7.33'	'0.08'	'0.41'	'0.24'	'0.00'	'00:00:19'	'58.93'	'0.01'	'0.02'	'27.72'
3:sitting still 30s	'3.80'	'6.43'	'8.23'	'9.06'	'0.09'	'0.45'	'-0.26'	'0.00'	'00:00:30'	'58.54'	'0.01'	'0.05'	'93.87'
4:typing text	'7.39'	'10.89'	'13.41'	'15.31'	'0.15'	'0.35'	'-0.43'	'0.00'	'00:00:59'	'56.95'	'0.01'	'0.09'	'250.95'
5:sitting still 30s	'2.86'	'4.64'	'4.55'	'5.37'	'0.07'	'0.33'	'0.05'	'0.05'	'00:00:30'	'53.11'	'0.01'	'0.01'	'4.37'
6:preparing to game	'-0.34'	'0.99'	'1.10'	'1.15'	'0.01'	'1.00'	'NaN'	'NaN'	'00:00:05'	'46.90'	'0.01'	'0.05'	'16.37'
7:playing game	'13.33'	'13.66'	'13.86'	'19.23'	'0.20'	'0.39'	'0.46'	'0.00'	'00:01:02'	'46.30'	'0.01'	'0.05'	'18.61'
8:sitting still 60s	'1.57'	'2.34'	'3.13'	'3.50'	'0.03'	'0.80'	'0.35'	'0.00'	'00:00:56'	'49.68'	'0.01'	'0.02'	'7.19'

### 15.4. Experiment results (plots)



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## Rozdział 16. video 4, ExG, WELCH\_ROI1

### 16.1. Experiment details

Experiment name : video 4, ExG, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(15)	'2.91'	'4.36'	'6.75'	'7.35'	'0.06'	'0.65'	'0.23'	'0.00'	'00:05:20'	'53.90'	'0.11'	'0.03'	'105.00'

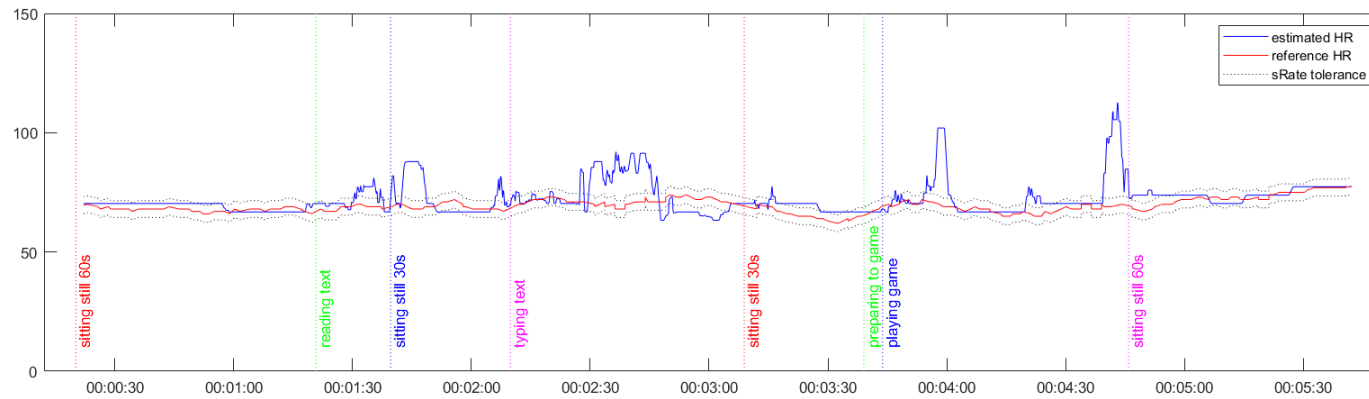
### 16.3. Experiment results (parts)

	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, WELCH\_ROI1

1:sitting still 60s	'1.25'	'1.98'	'1.85'	'2.23'	'0.03'	'0.92'	'0.02'	'0.34'	'00:00:59'	'59.88'	'0.01'	'0.01'	'4.60'
2:reading text	'3.43'	'3.81'	'3.14'	'4.65'	'0.06'	'0.65'	'0.50'	'0.00'	'00:00:19'	'58.93'	'0.01'	'0.02'	'27.72'
3:sitting still 30s	'3.49'	'6.02'	'8.08'	'8.80'	'0.09'	'0.50'	'-0.33'	'0.00'	'00:00:30'	'58.54'	'0.01'	'0.05'	'93.87'
4:typing text	'2.85'	'7.11'	'9.07'	'9.51'	'0.10'	'0.36'	'-0.53'	'0.00'	'00:00:59'	'56.95'	'0.01'	'0.09'	'250.95'
5:sitting still 30s	'3.45'	'3.48'	'1.64'	'3.82'	'0.05'	'0.48'	'0.71'	'0.00'	'00:00:30'	'53.11'	'0.01'	'0.01'	'4.37'
6:preparing to game	'-0.26'	'0.91'	'0.99'	'1.02'	'0.01'	'1.00'	'0.52'	'0.00'	'00:00:05'	'46.90'	'0.01'	'0.05'	'16.37'
7:playing game	'5.52'	'6.05'	'9.91'	'11.35'	'0.09'	'0.67'	'0.33'	'0.00'	'00:01:02'	'46.30'	'0.01'	'0.05'	'18.61'
8:sitting still 60s	'1.33'	'2.16'	'2.54'	'2.87'	'0.03'	'0.81'	'0.53'	'0.00'	'00:00:56'	'49.68'	'0.01'	'0.02'	'7.19'

### 16.4. Experiment results (plots)



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## Rozdział 17. video 4, ICA, WELCH\_ROI1

### 17.1. Experiment details

Experiment name : video 4, ICA, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(16)	'1.18'	'2.39'	'2.98'	'3.21'	'0.03'	'0.78'	'0.55'	'0.00'	'00:05:20'	'53.90'	'0.11'	'0.03'	'105.00'

### 17.3. Experiment results (parts)

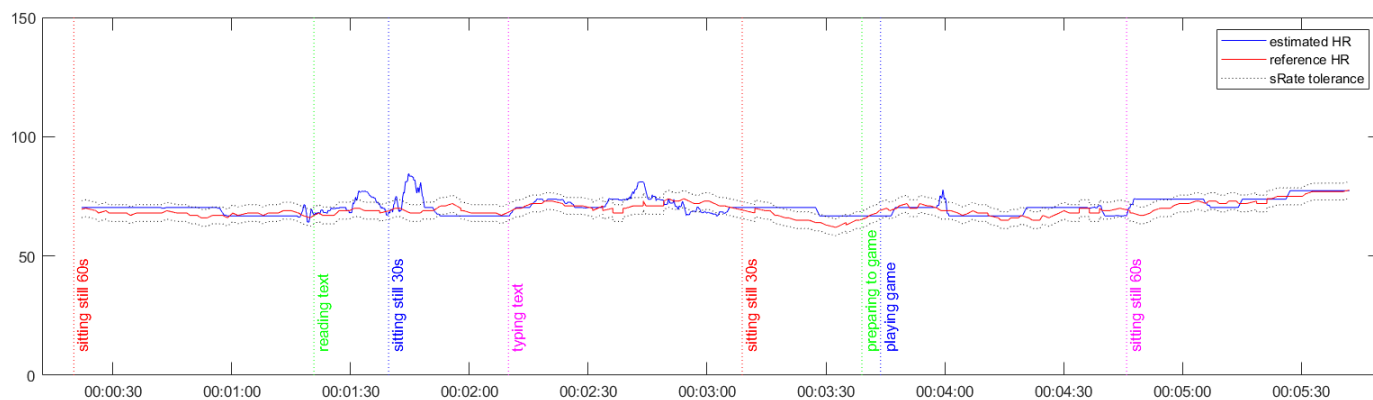
	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '



## Rozdział 17. video 4, ICA, WELCH\_ROI1

1:sitting still 60s	'1.16'	'1.94'	'1.85'	'2.18'	'0.03'	'0.93'	'0.10'	'0.00'	'00:00:59'	'59.88'	'0.01'	'0.01'	'4.60'
2:reading text	'2.73'	'2.91'	'2.64'	'3.79'	'0.04'	'0.73'	'0.62'	'0.00'	'00:00:19'	'58.93'	'0.01'	'0.02'	'27.72'
3:sitting still 30s	'0.89'	'3.68'	'5.42'	'5.50'	'0.05'	'0.64'	'-0.20'	'0.00'	'00:00:30'	'58.54'	'0.01'	'0.05'	'93.87'
4:typing text	'0.52'	'2.47'	'3.29'	'3.33'	'0.03'	'0.71'	'-0.06'	'0.00'	'00:00:59'	'56.95'	'0.01'	'0.09'	'250.95'
5:sitting still 30s	'3.35'	'3.35'	'1.56'	'3.70'	'0.05'	'0.51'	'0.73'	'0.00'	'00:00:30'	'53.11'	'0.01'	'0.01'	'4.37'
6:preparing to game	'-0.34'	'0.99'	'1.10'	'1.15'	'0.01'	'1.00'	'NaN'	'NaN'	'00:00:05'	'46.90'	'0.01'	'0.05'	'16.37'
7:playing game	'0.49'	'1.90'	'2.34'	'2.39'	'0.03'	'0.87'	'0.25'	'0.00'	'00:01:02'	'46.30'	'0.01'	'0.05'	'18.61'
8:sitting still 60s	'1.23'	'2.04'	'2.37'	'2.67'	'0.03'	'0.82'	'0.60'	'0.00'	'00:00:56'	'49.68'	'0.01'	'0.02'	'7.19'

### 17.4. Experiment results (plots)



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## Rozdział 18. video 5, G, WELCH\_ROI1

### 18.1. Experiment details

Experiment name : video 5, G, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(17)	'-0.99'	'2.42'	'3.81'	'3.94'	'0.03'	'0.84'	'0.58'	'0.00'	'00:05:49'	'950.08'	'0.12'	'0.02'	'161.87'

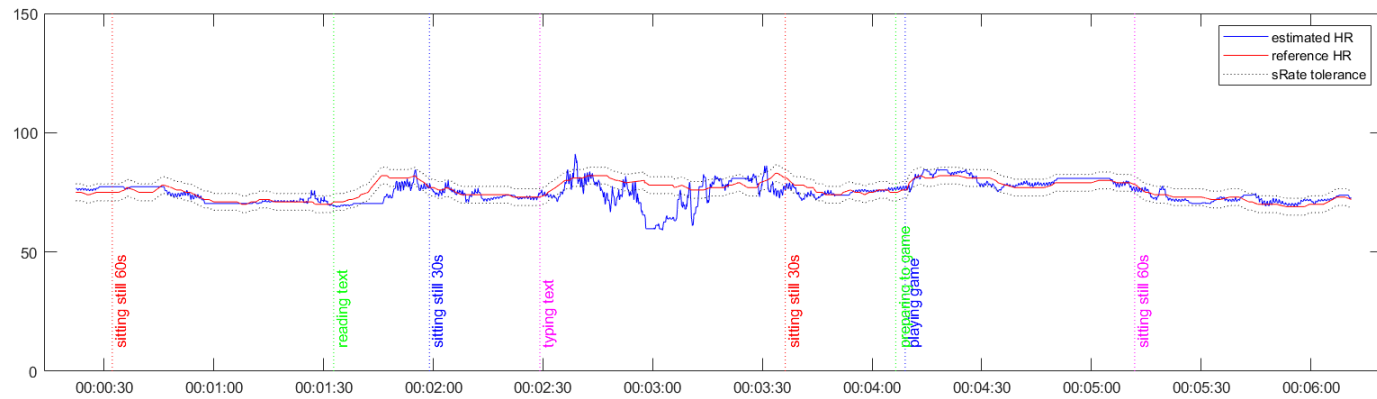
### 18.3. Experiment results (parts)

	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, WELCH\_ROI1

1:sitting still 60s	'0.09'	'1.12'	'1.44'	'1.44'	'0.02'	'0.99'	'0.85'	'0.00'	'00:01:01'	'1209.24'	'0.01'	'0.03'	'14.86'
2:reading text	'-4.03'	'4.13'	'3.12'	'5.10'	'0.05'	'0.56'	'0.71'	'0.00'	'00:00:26'	'1027.77'	'0.01'	'0.03'	'7.42'
3:sitting still 30s	'-0.45'	'0.94'	'1.10'	'1.19'	'0.01'	'1.00'	'0.73'	'0.00'	'00:00:30'	'823.23'	'0.01'	'0.13'	'242.57'
4:typing text	'-4.18'	'5.87'	'6.54'	'7.77'	'0.07'	'0.43'	'0.21'	'0.00'	'00:01:07'	'819.13'	'0.01'	'0.13'	'342.15'
5:sitting still 30s	'-0.88'	'1.50'	'1.88'	'2.07'	'0.02'	'0.91'	'0.27'	'0.00'	'00:00:30'	'901.21'	'0.01'	'0.04'	'7.53'
6:preparing to game	'1.08'	'1.08'	'0.64'	'1.25'	'0.01'	'1.00'	'0.01'	'0.91'	'00:00:03'	'834.59'	'0.01'	'0.10'	'17.24'
7:playing game	'0.62'	'1.53'	'1.65'	'1.76'	'0.02'	'0.98'	'0.70'	'0.00'	'00:01:03'	'822.85'	'0.01'	'0.12'	'40.70'
8:sitting still 60s	'0.22'	'1.37'	'1.59'	'1.60'	'0.02'	'0.99'	'0.65'	'0.00'	'00:00:59'	'953.67'	'0.01'	'0.04'	'5.03'

### 18.4. Experiment results (plots)



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## Rozdział 19. video 5, GRD, WELCH\_ROI1

### 19.1. Experiment details

Experiment name : video 5, GRD, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(18)	'0.04'	'1.65'	'2.15'	'2.15'	'0.02'	'0.91'	'0.88'	'0.00'	'00:05:49'	'950.08'	'0.12'	'0.02'	'161.87'

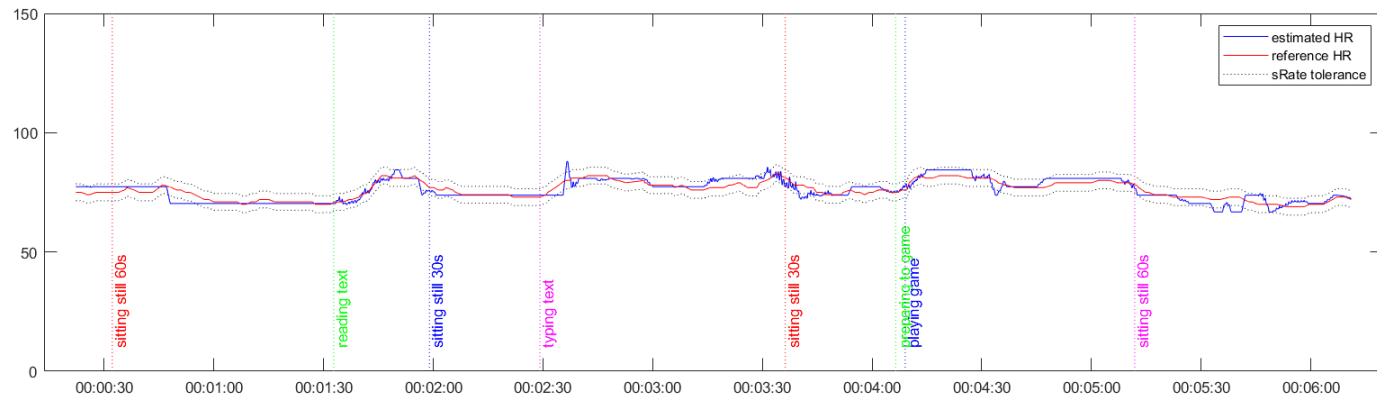
### 19.3. Experiment results (parts)

	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, WELCH\_ROI1

1:sitting still 60s	'-0.76'	'1.59'	'2.10'	'2.23'	'0.02'	'0.88'	'0.73'	'0.00'	'00:01:01'	'1209.24'	'0.01'	'0.03'	'14.86'
2:reading text	'-0.49'	'1.29'	'1.66'	'1.73'	'0.02'	'0.95'	'0.93'	'0.00'	'00:00:26'	'1027.77'	'0.01'	'0.03'	'7.42'
3:sitting still 30s	'-0.42'	'0.85'	'1.11'	'1.19'	'0.01'	'1.00'	'0.51'	'0.00'	'00:00:30'	'823.23'	'0.01'	'0.13'	'242.57'
4:typing text	'0.63'	'1.77'	'2.16'	'2.25'	'0.02'	'0.86'	'0.59'	'0.00'	'00:01:07'	'819.13'	'0.01'	'0.13'	'342.15'
5:sitting still 30s	'-0.30'	'1.69'	'2.15'	'2.17'	'0.02'	'0.91'	'0.22'	'0.00'	'00:00:30'	'901.21'	'0.01'	'0.04'	'7.53'
6:preparing to game	'0.60'	'0.64'	'0.58'	'0.83'	'0.01'	'1.00'	'0.86'	'0.00'	'00:00:03'	'834.59'	'0.01'	'0.10'	'17.24'
7:playing game	'1.07'	'1.66'	'1.70'	'2.01'	'0.02'	'0.97'	'0.75'	'0.00'	'00:01:03'	'822.85'	'0.01'	'0.12'	'40.70'
8:sitting still 60s	'-0.72'	'1.99'	'2.47'	'2.57'	'0.03'	'0.85'	'0.38'	'0.00'	'00:00:59'	'953.67'	'0.01'	'0.04'	'5.03'

### 19.4. Experiment results (plots)



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## Rozdział 20. video 5, ExG, WELCH\_ROI1

### 20.1. Experiment details

Experiment name : video 5, ExG, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(19)	'-0.08'	'1.77'	'2.52'	'2.52'	'0.02'	'0.91'	'0.83'	'0.00'	'00:05:49'	'950.08'	'0.12'	'0.02'	'161.87'

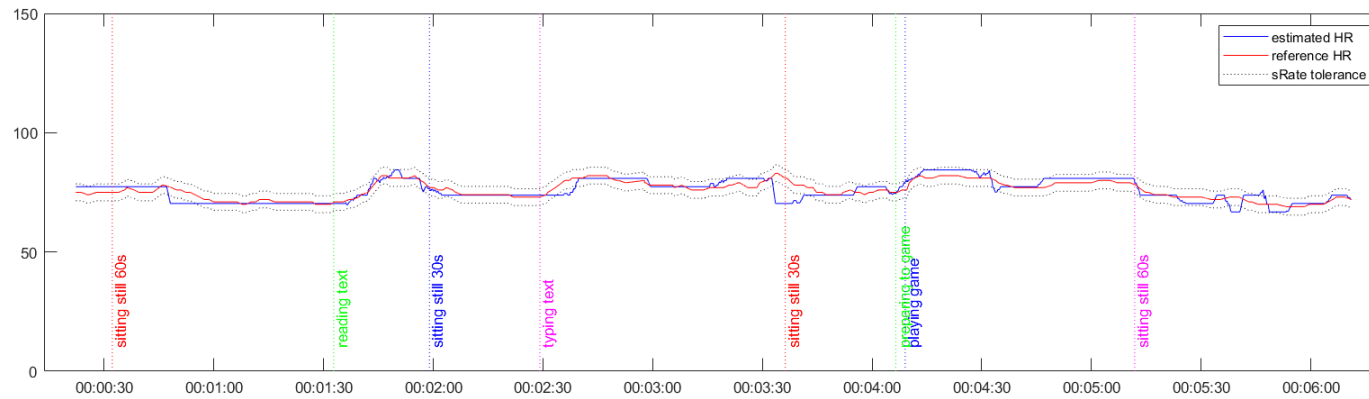
### 20.3. Experiment results (parts)

	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, WELCH\_ROI1

1:sitting still 60s	'-0.76'	'1.59'	'2.09'	'2.22'	'0.02'	'0.88'	'0.73'	'0.00'	'00:01:01'	'1209.24'	'0.01'	'0.03'	'14.86'
2:reading text	'-0.07'	'1.09'	'1.43'	'1.44'	'0.01'	'0.99'	'0.95'	'0.00'	'00:00:26'	'1027.77'	'0.01'	'0.03'	'7.42'
3:sitting still 30s	'-0.32'	'0.75'	'1.01'	'1.06'	'0.01'	'1.00'	'0.61'	'0.00'	'00:00:30'	'823.23'	'0.01'	'0.13'	'242.57'
4:typing text	'-0.40'	'2.14'	'3.29'	'3.31'	'0.03'	'0.83'	'0.19'	'0.00'	'00:01:07'	'819.13'	'0.01'	'0.13'	'342.15'
5:sitting still 30s	'-1.40'	'2.58'	'3.43'	'3.71'	'0.03'	'0.81'	'-0.61'	'0.00'	'00:00:30'	'901.21'	'0.01'	'0.04'	'7.53'
6:preparing to game	'1.44'	'1.49'	'0.97'	'1.73'	'0.02'	'1.00'	'0.93'	'0.00'	'00:00:03'	'834.59'	'0.01'	'0.10'	'17.24'
7:playing game	'1.50'	'1.83'	'1.47'	'2.10'	'0.02'	'0.96'	'0.81'	'0.00'	'00:01:03'	'822.85'	'0.01'	'0.12'	'40.70'
8:sitting still 60s	'-0.45'	'1.80'	'2.28'	'2.33'	'0.03'	'0.91'	'0.53'	'0.00'	'00:00:59'	'953.67'	'0.01'	'0.04'	'5.03'

### 20.4. Experiment results (plots)



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## Rozdział 21. video 5, ICA, WELCH\_ROI1

### 21.1. Experiment details

Experiment name : video 5, ICA, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(20)	'-0.32'	'1.98'	'2.75'	'2.77'	'0.03'	'0.87'	'0.77'	'0.00'	'00:05:49'	'950.08'	'0.12'	'0.02'	'161.87'

### 21.3. Experiment results (parts)

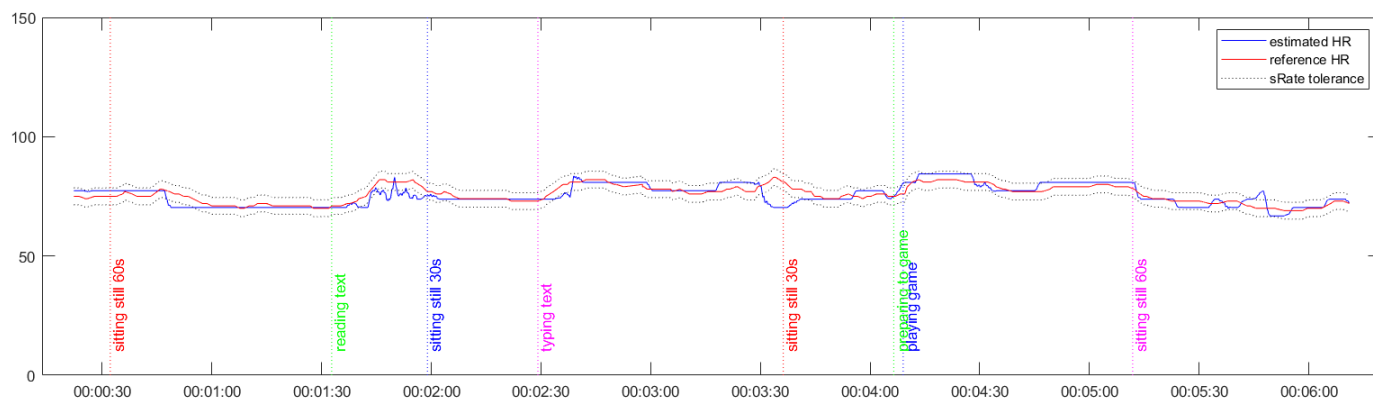
	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '



## Rozdział 21. video 5, ICA, WELCH\_ROI1

1:sitting still 60s	'-0.75'	'1.57'	'2.05'	'2.18'	'0.02'	'0.88'	'0.74'	'0.00'	'00:01:01'	'1209.24'	'0.01'	'0.03'	'14.86'
2:reading text	'-3.47'	'3.50'	'2.32'	'4.17'	'0.04'	'0.47'	'0.83'	'0.00'	'00:00:26'	'1027.77'	'0.01'	'0.03'	'7.42'
3:sitting still 30s	'-0.38'	'0.81'	'1.06'	'1.13'	'0.01'	'1.00'	'0.60'	'0.00'	'00:00:30'	'823.23'	'0.01'	'0.13'	'242.57'
4:typing text	'-0.52'	'2.37'	'3.60'	'3.64'	'0.03'	'0.79'	'0.12'	'0.00'	'00:01:07'	'819.13'	'0.01'	'0.13'	'342.15'
5:sitting still 30s	'-1.29'	'2.44'	'3.19'	'3.44'	'0.03'	'0.81'	'-0.56'	'0.00'	'00:00:30'	'901.21'	'0.01'	'0.04'	'7.53'
6:preparing to game	'1.93'	'1.94'	'1.35'	'2.35'	'0.03'	'0.82'	'0.94'	'0.00'	'00:00:03'	'834.59'	'0.01'	'0.10'	'17.24'
7:playing game	'1.39'	'1.82'	'1.56'	'2.08'	'0.02'	'0.97'	'0.75'	'0.00'	'00:01:03'	'822.85'	'0.01'	'0.12'	'40.70'
8:sitting still 60s	'-0.11'	'1.73'	'2.20'	'2.20'	'0.02'	'0.94'	'0.57'	'0.00'	'00:00:59'	'953.67'	'0.01'	'0.04'	'5.03'

### 21.4. Experiment results (plots)



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## Rozdział 22. video 6, G, WELCH\_ROI1

### 22.1. Experiment details

Experiment name : video 6, G, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(21)	'5.52'	'9.02'	'12.93'	'14.06'	'0.12'	'0.43'	'0.05'	'0.00'	'00:05:47'	'27.18'	'0.11'	'0.06'	'85.57'

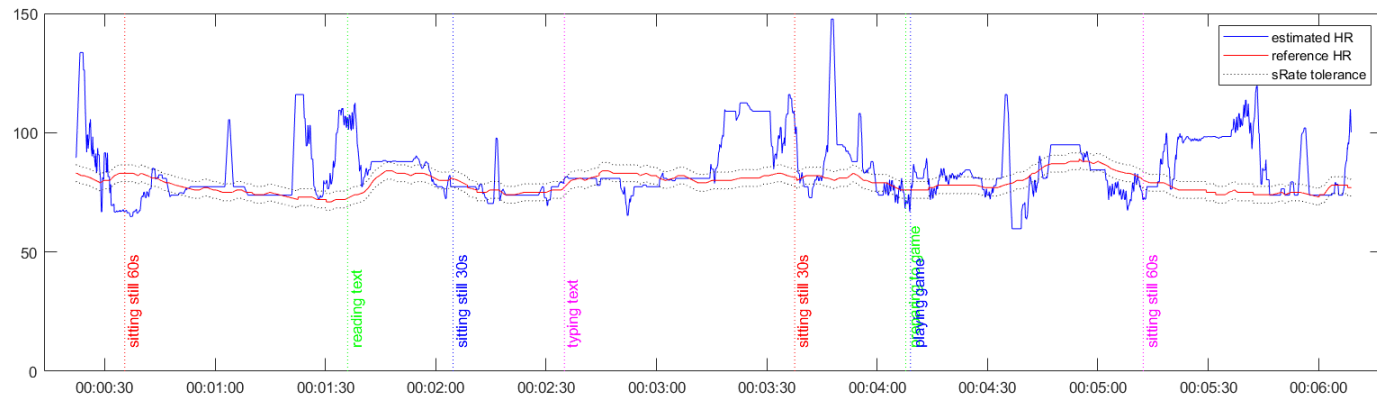
### 22.3. Experiment results (parts)

	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, WELCH\_ROI1

1:sitting still 60s	'4.64'	'8.48'	'13.86'	'14.62'	'0.11'	'0.58'	'-0.46'	'0.00'	'00:01:01'	'27.61'	'0.01'	'0.03'	'35.60'
2:reading text	'6.37'	'7.54'	'9.18'	'11.17'	'0.10'	'0.24'	'-0.36'	'0.00'	'00:00:29'	'29.63'	'0.01'	'0.03'	'33.26'
3:sitting still 30s	'-0.01'	'2.29'	'3.96'	'3.96'	'0.03'	'0.86'	'0.29'	'0.00'	'00:00:30'	'28.14'	'0.01'	'0.04'	'55.86'
4:typing text	'6.96'	'10.06'	'13.41'	'15.11'	'0.12'	'0.45'	'-0.14'	'0.00'	'00:01:03'	'22.62'	'0.01'	'0.07'	'84.86'
5:sitting still 30s	'6.89'	'9.72'	'15.00'	'16.50'	'0.12'	'0.32'	'0.27'	'0.00'	'00:00:30'	'24.15'	'0.01'	'0.03'	'75.19'
6:preparing to game	'-5.23'	'5.23'	'1.86'	'5.55'	'0.07'	'0.17'	'NaN'	'NaN'	'00:00:01'	'20.12'	'0.01'	'0.04'	'68.47'
7:playing game	'0.18'	'6.59'	'8.91'	'8.91'	'0.08'	'0.35'	'0.35'	'0.00'	'00:01:03'	'26.87'	'0.01'	'0.06'	'65.41'
8:sitting still 60s	'12.38'	'13.43'	'12.73'	'17.76'	'0.18'	'0.35'	'-0.17'	'0.00'	'00:00:57'	'32.07'	'0.01'	'0.03'	'69.92'

### 22.4. Experiment results (plots)



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## Rozdział 23. video 6, GRD, WELCH\_ROI1

### 23.1. Experiment details

Experiment name : video 6, GRD, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(22)	'5.71'	'8.62'	'12.20'	'13.47'	'0.11'	'0.42'	'0.06'	'0.00'	'00:05:47'	'27.18'	'0.11'	'0.06'	'85.57'

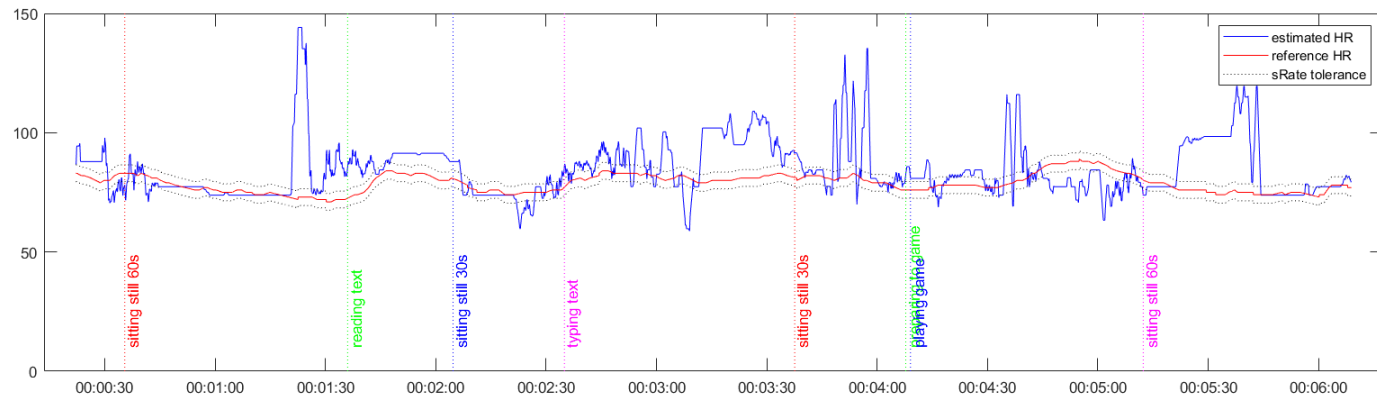
### 23.3. Experiment results (parts)

	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, WELCH\_ROI1

1:sitting still 60s	'5.22'	'7.14'	'15.42'	'16.28'	'0.10'	'0.73'	'-0.22'	'0.00'	'00:01:01'	'27.61'	'0.01'	'0.03'	'35.60'
2:reading text	'8.68'	'8.68'	'3.53'	'9.37'	'0.11'	'0.11'	'0.37'	'0.00'	'00:00:29'	'29.63'	'0.01'	'0.03'	'33.26'
3:sitting still 30s	'-1.02'	'3.45'	'4.47'	'4.58'	'0.05'	'0.67'	'0.68'	'0.00'	'00:00:30'	'28.14'	'0.01'	'0.04'	'55.86'
4:typing text	'9.53'	'11.52'	'10.29'	'14.03'	'0.14'	'0.19'	'-0.11'	'0.00'	'00:01:03'	'22.62'	'0.01'	'0.07'	'84.86'
5:sitting still 30s	'8.16'	'9.35'	'13.62'	'15.87'	'0.12'	'0.54'	'0.25'	'0.00'	'00:00:30'	'24.15'	'0.01'	'0.03'	'75.19'
6:preparing to game	'8.84'	'8.84'	'1.28'	'8.93'	'0.12'	'0.00'	'NaN'	'NaN'	'00:00:01'	'20.12'	'0.01'	'0.04'	'68.47'
7:playing game	'-0.44'	'7.26'	'10.05'	'10.06'	'0.09'	'0.32'	'-0.23'	'0.00'	'00:01:03'	'26.87'	'0.01'	'0.06'	'65.41'
8:sitting still 60s	'10.17'	'11.06'	'13.62'	'17.00'	'0.15'	'0.53'	'-0.20'	'0.00'	'00:00:57'	'32.07'	'0.01'	'0.03'	'69.92'

### 23.4. Experiment results (plots)



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## Rozdział 24. video 6, ExG, WELCH\_ROI1

### 24.1. Experiment details

Experiment name : video 6, ExG, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(23)	'4.10'	'5.49'	'10.37'	'11.15'	'0.07'	'0.65'	'0.25'	'0.00'	'00:05:47'	'27.18'	'0.11'	'0.06'	'85.57'

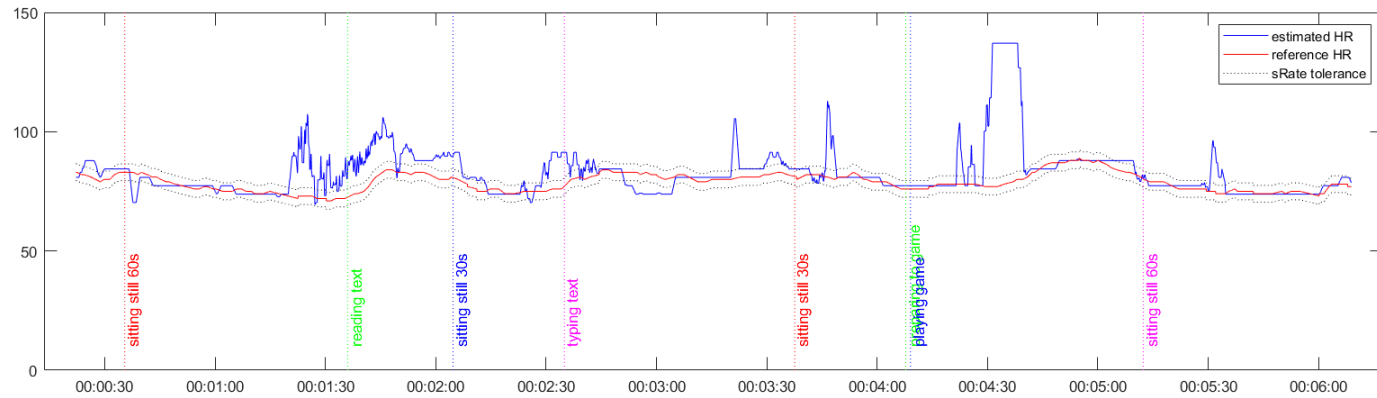
### 24.3. Experiment results (parts)

	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, WELCH\_ROI1

1:sitting still 60s	'2.46'	'4.42'	'7.21'	'7.62'	'0.06'	'0.71'	'-0.18'	'0.00'	'00:01:01'	'27.61'	'0.01'	'0.03'	'35.60'
2:reading text	'10.65'	'10.68'	'4.62'	'11.61'	'0.13'	'0.04'	'0.40'	'0.00'	'00:00:29'	'29.63'	'0.01'	'0.03'	'33.26'
3:sitting still 30s	'3.92'	'4.96'	'5.63'	'6.86'	'0.06'	'0.54'	'0.61'	'0.00'	'00:00:30'	'28.14'	'0.01'	'0.04'	'55.86'
4:typing text	'1.11'	'4.39'	'5.81'	'5.91'	'0.05'	'0.56'	'-0.06'	'0.00'	'00:01:03'	'22.62'	'0.01'	'0.07'	'84.86'
5:sitting still 30s	'2.07'	'3.05'	'6.05'	'6.39'	'0.04'	'0.85'	'0.29'	'0.00'	'00:00:30'	'24.15'	'0.01'	'0.03'	'75.19'
6:preparing to game	'1.34'	'1.34'	'0.00'	'1.34'	'0.02'	'1.00'	'NaN'	'NaN'	'00:00:01'	'20.12'	'0.01'	'0.04'	'68.47'
7:playing game	'9.85'	'10.37'	'19.38'	'21.73'	'0.13'	'0.68'	'-0.17'	'0.00'	'00:01:03'	'26.87'	'0.01'	'0.06'	'65.41'
8:sitting still 60s	'0.84'	'1.86'	'3.51'	'3.61'	'0.02'	'0.92'	'0.31'	'0.00'	'00:00:57'	'32.07'	'0.01'	'0.03'	'69.92'

### 24.4. Experiment results (plots)



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## Rozdział 25. video 6, ICA, WELCH\_ROI1

### 25.1. Experiment details

Experiment name : video 6, ICA, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(24)	'2.35'	'4.34'	'6.78'	'7.18'	'0.05'	'0.62'	'0.42'	'0.00'	'00:05:47'	'27.18'	'0.11'	'0.06'	'85.57'

### 25.3. Experiment results (parts)

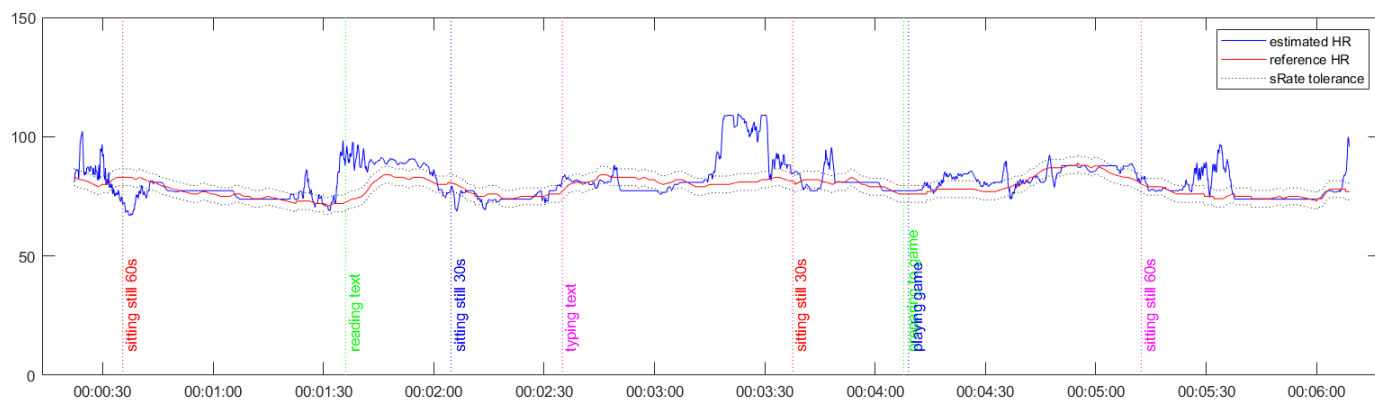
	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '



## Rozdział 25. video 6, ICA, WELCH\_ROI1

1:sitting still 60s	'0.22'	'3.04'	'5.51'	'5.51'	'0.04'	'0.79'	'-0.05'	'0.00'	'00:01:01'	'27.61'	'0.01'	'0.03'	'35.60'
2:reading text	'7.22'	'8.14'	'6.32'	'9.59'	'0.10'	'0.10'	'-0.14'	'0.00'	'00:00:29'	'29.63'	'0.01'	'0.03'	'33.26'
3:sitting still 30s	'-1.03'	'1.96'	'2.60'	'2.80'	'0.03'	'0.86'	'0.18'	'0.00'	'00:00:30'	'28.14'	'0.01'	'0.04'	'55.86'
4:typing text	'5.13'	'7.94'	'10.88'	'12.03'	'0.10'	'0.43'	'-0.17'	'0.00'	'00:01:03'	'22.62'	'0.01'	'0.07'	'84.86'
5:sitting still 30s	'0.73'	'2.55'	'3.74'	'3.81'	'0.03'	'0.74'	'0.26'	'0.00'	'00:00:30'	'24.15'	'0.01'	'0.03'	'75.19'
6:preparing to game	'1.34'	'1.34'	'0.00'	'1.34'	'0.02'	'1.00'	'NaN'	'NaN'	'00:00:01'	'20.12'	'0.01'	'0.04'	'68.47'
7:playing game	'1.71'	'2.90'	'3.20'	'3.63'	'0.04'	'0.65'	'0.69'	'0.00'	'00:01:03'	'26.87'	'0.01'	'0.06'	'65.41'
8:sitting still 60s	'2.40'	'3.24'	'5.46'	'5.96'	'0.04'	'0.77'	'0.18'	'0.00'	'00:00:57'	'32.07'	'0.01'	'0.03'	'69.92'

### 25.4. Experiment results (plots)



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## Rozdział 26. video 7, G, WELCH\_ROI1

### 26.1. Experiment details

Experiment name : video 7, G, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(25)	'1.64'	'2.42'	'3.08'	'3.49'	'0.04'	'0.80'	'0.42'	'0.00'	'00:05:57'	'152.14'	'0.12'	'0.07'	'69.85'

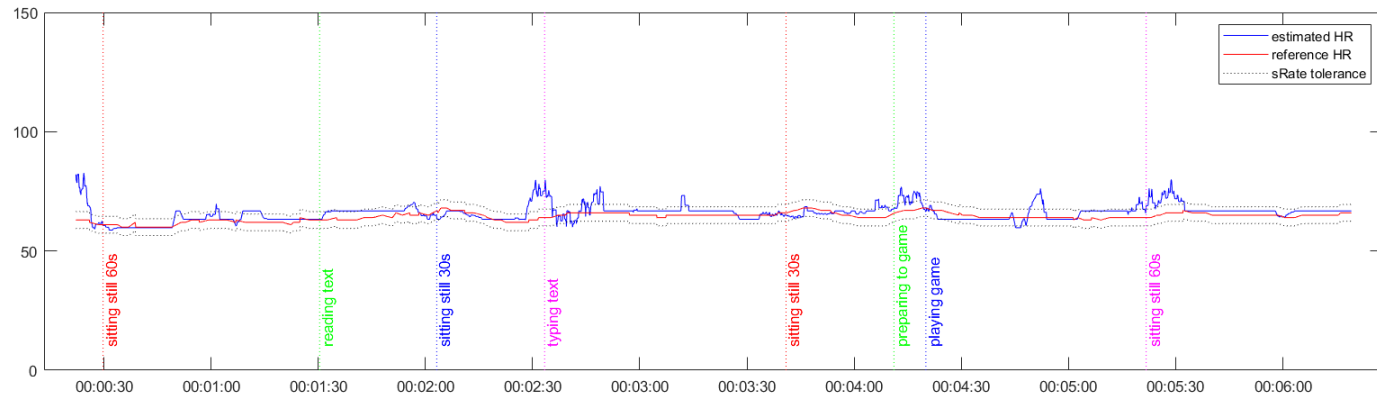
### 26.3. Experiment results (parts)

	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, WELCH\_ROI1

1:sitting still 60s	'0.97'	'1.43'	'1.84'	'2.08'	'0.02'	'0.86'	'0.67'	'0.00'	'00:01:01'	'145.96'	'0.02'	'0.05'	'14.98'
2:reading text	'2.26'	'2.54'	'1.64'	'2.79'	'0.04'	'0.75'	'-0.00'	'0.88'	'00:00:33'	'135.52'	'0.02'	'0.05'	'28.15'
3:sitting still 30s	'1.42'	'2.70'	'4.33'	'4.56'	'0.04'	'0.79'	'0.01'	'0.76'	'00:00:30'	'134.29'	'0.01'	'0.06'	'86.75'
4:typing text	'1.54'	'2.29'	'2.79'	'3.19'	'0.04'	'0.85'	'-0.02'	'0.20'	'00:01:08'	'118.37'	'0.01'	'0.07'	'67.87'
5:sitting still 30s	'0.68'	'2.19'	'2.50'	'2.60'	'0.03'	'0.86'	'-0.45'	'0.00'	'00:00:30'	'152.92'	'0.01'	'0.04'	'18.48'
6:preparing to game	'4.44'	'4.57'	'2.69'	'5.19'	'0.07'	'0.41'	'-0.05'	'0.22'	'00:00:09'	'160.37'	'0.01'	'0.05'	'25.51'
7:playing game	'0.80'	'2.47'	'3.10'	'3.20'	'0.04'	'0.78'	'-0.13'	'0.00'	'00:01:02'	'175.46'	'0.01'	'0.07'	'24.25'
8:sitting still 60s	'2.47'	'2.49'	'2.35'	'3.41'	'0.04'	'0.82'	'0.28'	'0.00'	'00:00:57'	'191.25'	'0.01'	'0.05'	'9.14'

### 26.4. Experiment results (plots)



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## Rozdział 27. video 7, GRD, WELCH\_ROI1

### 27.1. Experiment details

Experiment name : video 7, GRD, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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__WELCH_ROI1__(26)	'2.04'	'2.48'	'3.05'	'3.67'	'0.04'	'0.84'	'0.33'	'0.00'	'00:05:57'	'152.14'	'0.12'	'0.07'	'69.85'

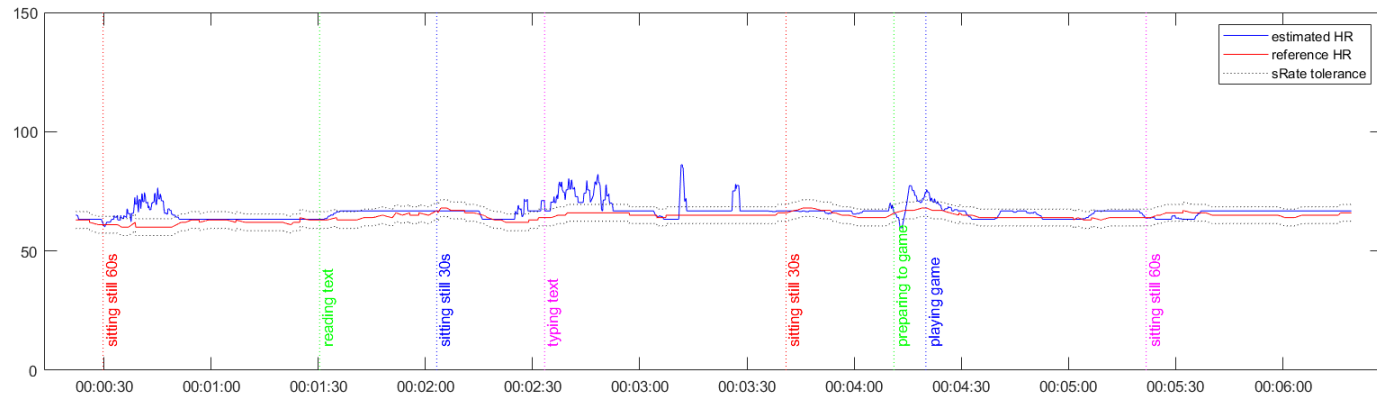
### 27.3. Experiment results (parts)

	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, WELCH\_ROI1

1:sitting still 60s	'2.82'	'2.85'	'3.60'	'4.57'	'0.05'	'0.75'	'-0.66'	'0.00'	'00:01:01'	'145.96'	'0.02'	'0.05'	'14.98'
2:reading text	'2.12'	'2.12'	'1.06'	'2.37'	'0.03'	'0.84'	'0.43'	'0.00'	'00:00:33'	'135.52'	'0.02'	'0.05'	'28.15'
3:sitting still 30s	'1.44'	'1.89'	'2.53'	'2.91'	'0.03'	'0.78'	'0.27'	'0.00'	'00:00:30'	'134.29'	'0.01'	'0.06'	'86.75'
4:typing text	'3.73'	'3.93'	'4.29'	'5.68'	'0.06'	'0.69'	'0.37'	'0.00'	'00:01:08'	'118.37'	'0.01'	'0.07'	'67.87'
5:sitting still 30s	'0.97'	'1.59'	'1.59'	'1.86'	'0.02'	'0.98'	'-0.01'	'0.73'	'00:00:30'	'152.92'	'0.01'	'0.04'	'18.48'
6:preparing to game	'2.38'	'4.82'	'5.07'	'5.60'	'0.07'	'0.41'	'0.51'	'0.00'	'00:00:09'	'160.37'	'0.01'	'0.05'	'25.51'
7:playing game	'1.41'	'1.86'	'1.76'	'2.25'	'0.03'	'0.94'	'0.68'	'0.00'	'00:01:02'	'175.46'	'0.01'	'0.07'	'24.25'
8:sitting still 60s	'0.80'	'1.81'	'1.76'	'1.93'	'0.03'	'0.99'	'-0.42'	'0.00'	'00:00:57'	'191.25'	'0.01'	'0.05'	'9.14'

### 27.4. Experiment results (plots)



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## Rozdział 28. video 7, ExG, WELCH\_ROI1

### 28.1. Experiment details

Experiment name : video 7, ExG, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(27)	'1.83'	'2.22'	'2.88'	'3.41'	'0.03'	'0.86'	'0.54'	'0.00'	'00:05:57'	'152.14'	'0.12'	'0.07'	'69.85'

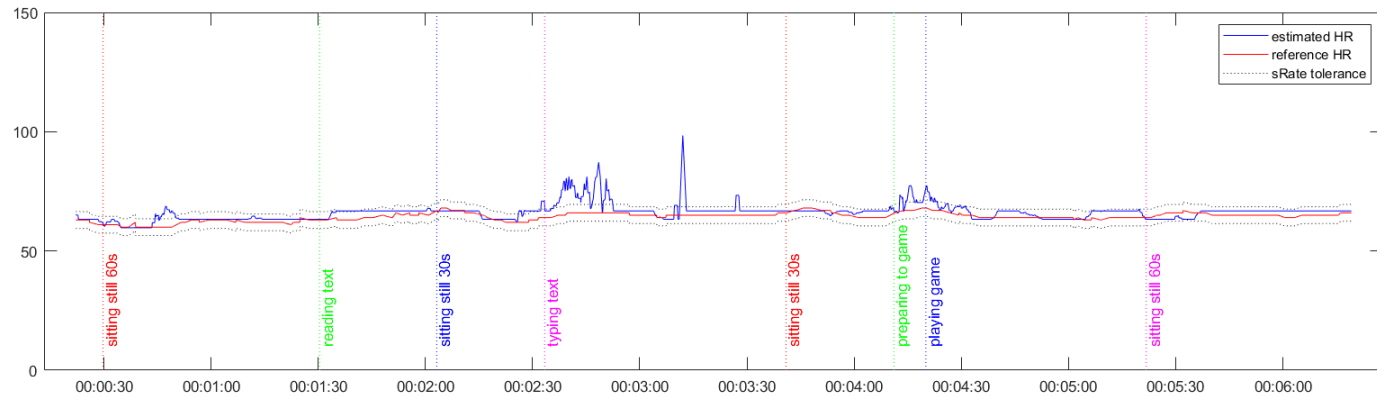
### 28.3. Experiment results (parts)

	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, WELCH\_ROI1

1:sitting still 60s	'1.22'	'1.39'	'1.74'	'2.13'	'0.02'	'0.91'	'0.26'	'0.00'	'00:01:01'	'145.96'	'0.02'	'0.05'	'14.98'
2:reading text	'2.17'	'2.17'	'1.11'	'2.44'	'0.03'	'0.81'	'0.42'	'0.00'	'00:00:33'	'135.52'	'0.02'	'0.05'	'28.15'
3:sitting still 30s	'1.15'	'1.60'	'2.03'	'2.33'	'0.03'	'0.80'	'0.48'	'0.00'	'00:00:30'	'134.29'	'0.01'	'0.06'	'86.75'
4:typing text	'3.86'	'4.01'	'4.87'	'6.21'	'0.06'	'0.70'	'0.42'	'0.00'	'00:01:08'	'118.37'	'0.01'	'0.07'	'67.87'
5:sitting still 30s	'0.88'	'1.53'	'1.56'	'1.79'	'0.02'	'1.00'	'0.02'	'0.42'	'00:00:30'	'152.92'	'0.01'	'0.04'	'18.48'
6:preparing to game	'4.04'	'4.09'	'3.03'	'5.05'	'0.06'	'0.51'	'0.39'	'0.00'	'00:00:09'	'160.37'	'0.01'	'0.05'	'25.51'
7:playing game	'1.55'	'1.98'	'1.87'	'2.43'	'0.03'	'0.91'	'0.70'	'0.00'	'00:01:02'	'175.46'	'0.01'	'0.07'	'24.25'
8:sitting still 60s	'0.78'	'1.84'	'1.78'	'1.94'	'0.03'	'0.99'	'-0.37'	'0.00'	'00:00:57'	'191.25'	'0.01'	'0.05'	'9.14'

### 28.4. Experiment results (plots)



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## Rozdział 29. video 7, ICA, WELCH\_ROI1

### 29.1. Experiment details

Experiment name : video 7, ICA, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(28)	'1.36'	'1.75'	'1.69'	'2.17'	'0.03'	'0.91'	'0.71'	'0.00'	'00:05:57'	'152.14'	'0.12'	'0.07'	'69.85'

### 29.3. Experiment results (parts)

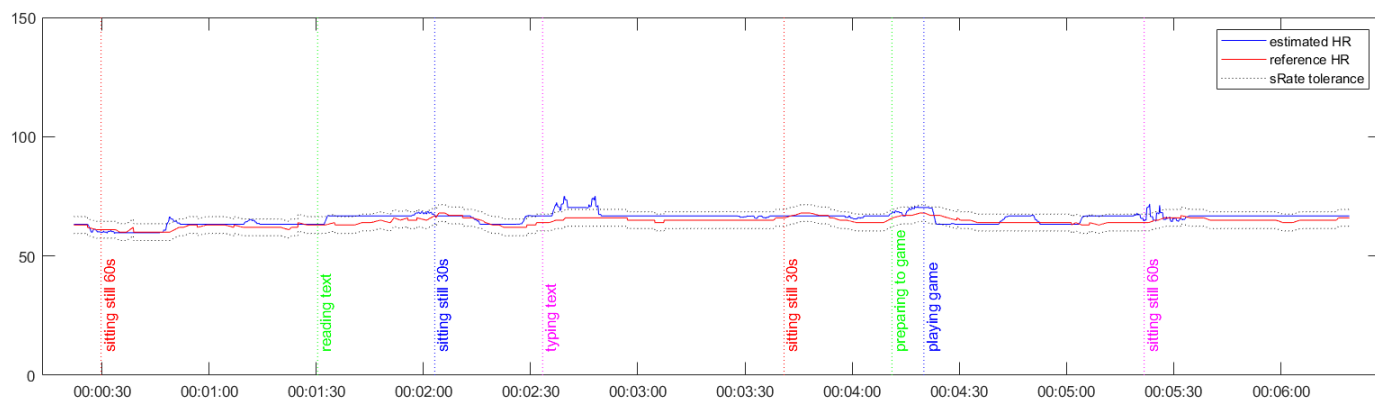
	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '



## Rozdział 29. video 7, ICA, WELCH\_ROI1

1:sitting still 60s	'0.71'	'1.04'	'1.29'	'1.47'	'0.02'	'0.97'	'0.67'	'0.00'	'00:01:01'	'145.96'	'0.02'	'0.05'	'14.98'
2:reading text	'2.45'	'2.45'	'1.00'	'2.65'	'0.04'	'0.81'	'0.54'	'0.00'	'00:00:33'	'135.52'	'0.02'	'0.05'	'28.15'
3:sitting still 30s	'0.74'	'1.25'	'1.55'	'1.71'	'0.02'	'0.89'	'0.68'	'0.00'	'00:00:30'	'134.29'	'0.01'	'0.06'	'86.75'
4:typing text	'2.34'	'2.34'	'1.66'	'2.87'	'0.04'	'0.81'	'0.43'	'0.00'	'00:01:08'	'118.37'	'0.01'	'0.07'	'67.87'
5:sitting still 30s	'0.96'	'1.42'	'1.38'	'1.68'	'0.02'	'1.00'	'0.37'	'0.00'	'00:00:30'	'152.92'	'0.01'	'0.04'	'18.48'
6:preparing to game	'1.99'	'2.02'	'0.92'	'2.19'	'0.03'	'1.00'	'0.64'	'0.00'	'00:00:09'	'160.37'	'0.01'	'0.05'	'25.51'
7:playing game	'0.78'	'2.03'	'2.18'	'2.31'	'0.03'	'0.92'	'0.05'	'0.00'	'00:01:02'	'175.46'	'0.01'	'0.07'	'24.25'
8:sitting still 60s	'1.52'	'1.69'	'1.20'	'1.93'	'0.03'	'0.98'	'-0.38'	'0.00'	'00:00:57'	'191.25'	'0.01'	'0.05'	'9.14'

### 29.4. Experiment results (plots)



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## Rozdział 30. video 8, G, WELCH\_ROI1

### 30.1. Experiment details

Experiment name : video 8, G, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(29)	'0.86'	'4.51'	'6.72'	'6.78'	'0.06'	'0.61'	'0.44'	'0.00'	'00:05:56'	'48.95'	'0.10'	'0.07'	'30.65'

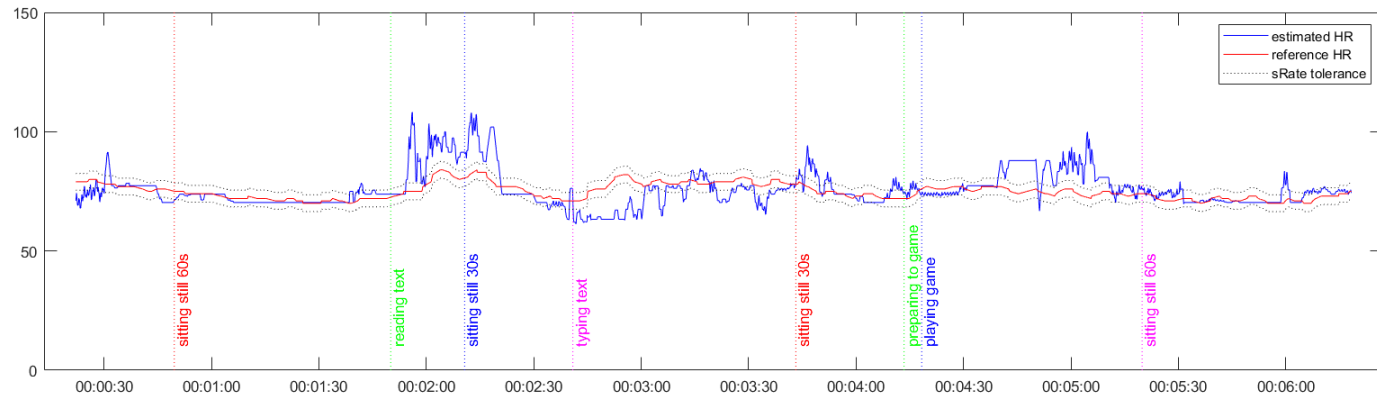
### 30.3. Experiment results (parts)

	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, WELCH\_ROI1

1:sitting still 60s	'-0.18'	'1.32'	'1.71'	'1.72'	'0.02'	'0.94'	'0.47'	'0.00'	'00:01:00'	'56.59'	'0.01'	'0.03'	'18.54'
2:reading text	'9.94'	'10.01'	'7.47'	'12.43'	'0.13'	'0.26'	'0.66'	'0.00'	'00:00:21'	'54.78'	'0.01'	'0.02'	'21.21'
3:sitting still 30s	'3.33'	'6.62'	'8.88'	'9.48'	'0.08'	'0.57'	'0.86'	'0.00'	'00:00:30'	'52.94'	'0.01'	'0.09'	'27.52'
4:typing text	'-6.20'	'6.74'	'5.60'	'8.35'	'0.09'	'0.35'	'0.38'	'0.00'	'00:01:02'	'51.94'	'0.01'	'0.08'	'19.59'
5:sitting still 30s	'1.92'	'3.34'	'4.28'	'4.69'	'0.04'	'0.62'	'0.63'	'0.00'	'00:00:30'	'46.84'	'0.01'	'0.03'	'19.54'
6:preparing to game	'1.97'	'2.49'	'2.17'	'2.93'	'0.03'	'0.76'	'0.04'	'0.49'	'00:00:05'	'38.87'	'0.01'	'0.04'	'29.54'
7:playing game	'5.19'	'6.29'	'6.52'	'8.34'	'0.08'	'0.47'	'-0.31'	'0.00'	'00:01:02'	'38.33'	'0.01'	'0.05'	'31.34'
8:sitting still 60s	'0.85'	'1.84'	'2.40'	'2.55'	'0.03'	'0.86'	'0.30'	'0.00'	'00:00:58'	'43.23'	'0.01'	'0.04'	'17.02'

### 30.4. Experiment results (plots)



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## Rozdział 31. video 8, GRD, WELCH\_ROI1

### 31.1. Experiment details

Experiment name : video 8, GRD, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(30)	'10.67'	'13.39'	'14.36'	'17.89'	'0.18'	'0.19'	'-0.32'	'0.00'	'00:05:56'	'48.95'	'0.10'	'0.07'	'30.65'

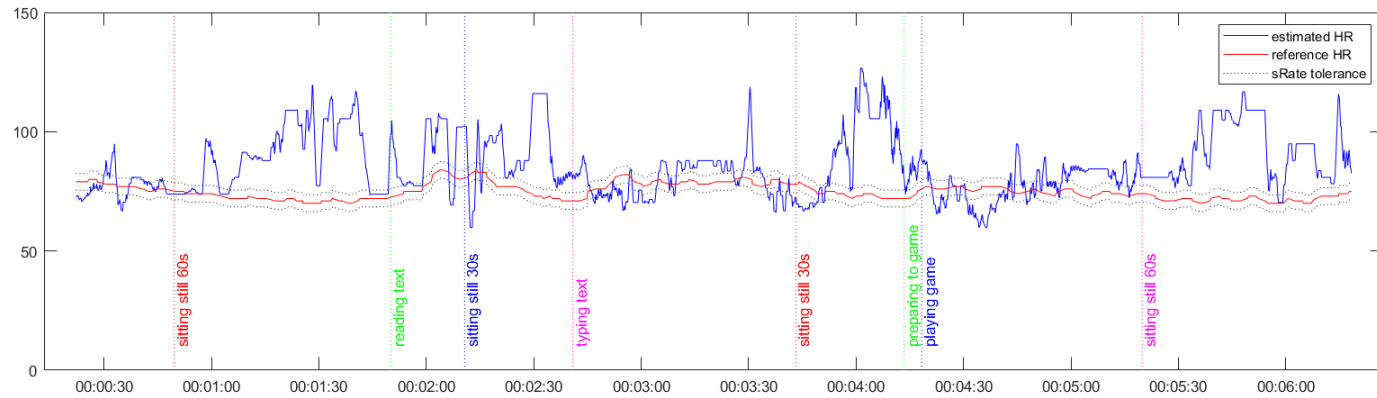
### 31.3. Experiment results (parts)

	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, WELCH\_ROI1

1:sitting still 60s	'18.17'	'18.29'	'14.05'	'22.97'	'0.26'	'0.27'	'-0.61'	'0.00'	'00:01:00'	'56.59'	'0.01'	'0.03'	'18.54'
2:reading text	'11.60'	'13.24'	'10.96'	'15.96'	'0.17'	'0.23'	'0.49'	'0.00'	'00:00:21'	'54.78'	'0.01'	'0.02'	'21.21'
3:sitting still 30s	'14.63'	'17.07'	'15.22'	'21.11'	'0.23'	'0.03'	'-0.23'	'0.00'	'00:00:30'	'52.94'	'0.01'	'0.09'	'27.52'
4:typing text	'1.72'	'6.93'	'8.30'	'8.47'	'0.09'	'0.23'	'-0.02'	'0.29'	'00:01:02'	'51.94'	'0.01'	'0.08'	'19.59'
5:sitting still 30s	'18.25'	'21.74'	'19.06'	'26.39'	'0.30'	'0.08'	'-0.64'	'0.00'	'00:00:30'	'46.84'	'0.01'	'0.03'	'19.54'
6:preparing to game	'9.86'	'9.86'	'3.73'	'10.54'	'0.13'	'0.04'	'0.76'	'0.00'	'00:00:05'	'38.87'	'0.01'	'0.04'	'29.54'
7:playing game	'2.36'	'7.25'	'8.14'	'8.47'	'0.10'	'0.24'	'-0.50'	'0.00'	'00:01:02'	'38.33'	'0.01'	'0.05'	'31.34'
8:sitting still 60s	'20.08'	'20.08'	'12.15'	'23.47'	'0.28'	'0.03'	'0.05'	'0.00'	'00:00:58'	'43.23'	'0.01'	'0.04'	'17.02'

### 31.4. Experiment results (plots)



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## Rozdział 32. video 8, ExG, WELCH\_ROI1

### 32.1. Experiment details

Experiment name : video 8, ExG, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(31)	'8.53'	'12.11'	'14.99'	'17.25'	'0.16'	'0.25'	'-0.37'	'0.00'	'00:05:56'	'48.95'	'0.10'	'0.07'	'30.65'

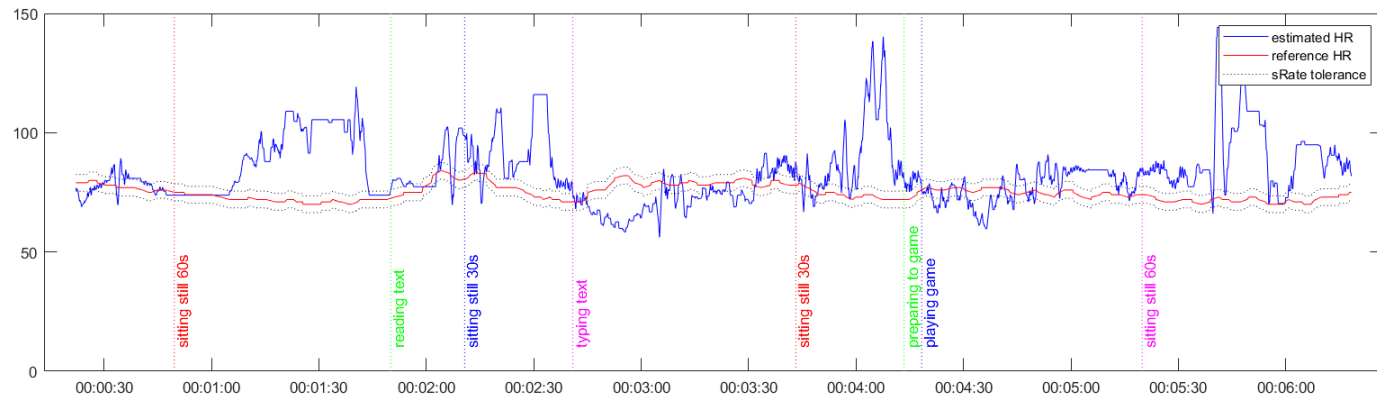
### 32.3. Experiment results (parts)

	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, WELCH\_ROI1

1:sitting still 60s	'16.97'	'17.13'	'14.61'	'22.40'	'0.24'	'0.36'	'-0.74'	'0.00'	'00:01:00'	'56.59'	'0.01'	'0.03'	'18.54'
2:reading text	'5.28'	'6.68'	'7.55'	'9.21'	'0.08'	'0.40'	'0.53'	'0.00'	'00:00:21'	'54.78'	'0.01'	'0.02'	'21.21'
3:sitting still 30s	'15.34'	'15.91'	'13.75'	'20.60'	'0.21'	'0.07'	'-0.12'	'0.00'	'00:00:30'	'52.94'	'0.01'	'0.09'	'27.52'
4:typing text	'-5.30'	'8.10'	'8.36'	'9.90'	'0.10'	'0.25'	'-0.07'	'0.00'	'00:01:02'	'51.94'	'0.01'	'0.08'	'19.59'
5:sitting still 30s	'17.18'	'17.92'	'18.25'	'25.06'	'0.24'	'0.20'	'-0.34'	'0.00'	'00:00:30'	'46.84'	'0.01'	'0.03'	'19.54'
6:preparing to game	'6.21'	'6.22'	'1.98'	'6.52'	'0.08'	'0.07'	'0.50'	'0.00'	'00:00:05'	'38.87'	'0.01'	'0.04'	'29.54'
7:playing game	'2.17'	'6.61'	'7.49'	'7.80'	'0.09'	'0.29'	'-0.55'	'0.00'	'00:01:02'	'38.33'	'0.01'	'0.05'	'31.34'
8:sitting still 60s	'18.41'	'18.46'	'14.17'	'23.23'	'0.26'	'0.07'	'0.17'	'0.00'	'00:00:58'	'43.23'	'0.01'	'0.04'	'17.02'

### 32.4. Experiment results (plots)



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## Rozdział 33. video 8, ICA, WELCH\_ROI1

### 33.1. Experiment details

Experiment name : video 8, ICA, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(32)	'-0.48'	'2.59'	'3.92'	'3.95'	'0.03'	'0.79'	'0.50'	'0.00'	'00:05:56'	'48.95'	'0.10'	'0.07'	'30.65'

### 33.3. Experiment results (parts)

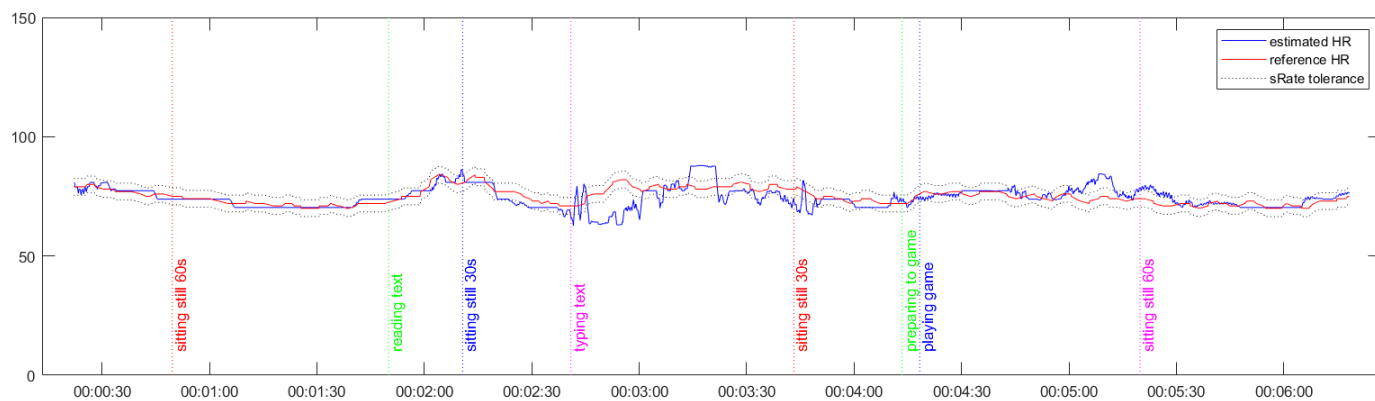
	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '



## Rozdział 33. video 8, ICA, WELCH\_ROI1

1:sitting still 60s	'-0.23'	'1.01'	'1.18'	'1.20'	'0.01'	'1.00'	'0.72'	'0.00'	'00:01:00'	'56.59'	'0.01'	'0.03'	'18.54'
2:reading text	'0.08'	'1.52'	'2.02'	'2.02'	'0.02'	'0.91'	'0.85'	'0.00'	'00:00:21'	'54.78'	'0.01'	'0.02'	'21.21'
3:sitting still 30s	'-2.21'	'2.57'	'1.72'	'2.80'	'0.03'	'0.84'	'0.94'	'0.00'	'00:00:30'	'52.94'	'0.01'	'0.09'	'27.52'
4:typing text	'-3.29'	'6.06'	'6.84'	'7.59'	'0.08'	'0.41'	'0.15'	'0.00'	'00:01:02'	'51.94'	'0.01'	'0.08'	'19.59'
5:sitting still 30s	'-1.92'	'2.66'	'3.06'	'3.61'	'0.04'	'0.74'	'-0.01'	'0.53'	'00:00:30'	'46.84'	'0.01'	'0.03'	'19.54'
6:preparing to game	'-0.47'	'1.03'	'1.08'	'1.17'	'0.01'	'1.00'	'0.69'	'0.00'	'00:00:05'	'38.87'	'0.01'	'0.04'	'29.54'
7:playing game	'1.75'	'2.52'	'3.11'	'3.57'	'0.03'	'0.79'	'-0.22'	'0.00'	'00:01:02'	'38.33'	'0.01'	'0.05'	'31.34'
8:sitting still 60s	'1.03'	'1.72'	'2.11'	'2.35'	'0.02'	'0.83'	'0.55'	'0.00'	'00:00:58'	'43.23'	'0.01'	'0.04'	'17.02'

### 33.4. Experiment results (plots)



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## Rozdział 34. video 9, G, WELCH\_ROI1

### 34.1. Experiment details

Experiment name : video 9, G, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(33)	'18.47'	'19.08'	'12.32'	'22.20'	'0.35'	'0.11'	'0.27'	'0.00'	'00:05:45'	'105.60'	'0.10'	'0.04'	'151.62'

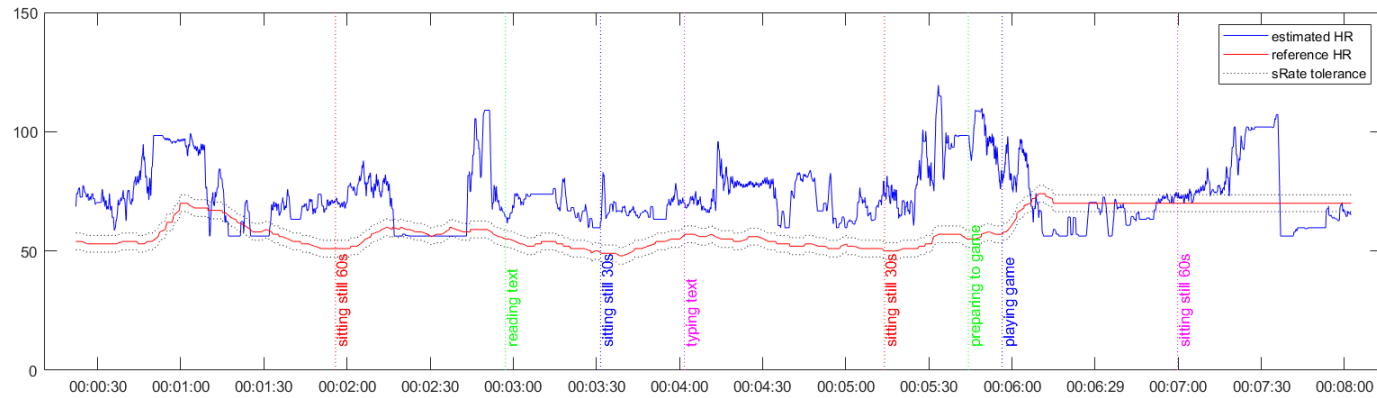
### 34.3. Experiment results (parts)

	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, WELCH\_ROI1

1:sitting still 60s	'12.52'	'14.18'	'14.79'	'19.38'	'0.25'	'0.41'	'-0.09'	'0.00'	'00:01:01'	'107.21'	'0.01'	'0.01'	'13.21'
2:reading text	'16.87'	'16.87'	'4.49'	'17.46'	'0.32'	'0.00'	'0.56'	'0.00'	'00:00:34'	'105.81'	'0.01'	'0.01'	'13.94'
3:sitting still 30s	'15.98'	'15.98'	'4.36'	'16.56'	'0.31'	'0.00'	'0.10'	'0.00'	'00:00:30'	'102.11'	'0.02'	'0.01'	'6.28'
4:typing text	'18.77'	'18.77'	'6.97'	'20.02'	'0.35'	'0.00'	'0.32'	'0.00'	'00:01:12'	'105.21'	'0.01'	'0.06'	'28.56'
5:sitting still 30s	'31.86'	'31.86'	'11.95'	'34.03'	'0.59'	'0.00'	'0.82'	'0.00'	'00:00:30'	'113.28'	'0.01'	'0.01'	'7.69'
6:preparing to game	'40.30'	'40.30'	'9.42'	'41.38'	'0.71'	'0.00'	'-0.27'	'0.00'	'00:00:12'	'101.10'	'0.01'	'0.01'	'12.23'
7:playing game	'20.78'	'20.83'	'8.29'	'22.37'	'0.33'	'0.04'	'0.02'	'0.59'	'00:00:11'	'100.14'	'0.01'	'0.00'	'8.20'
8:sitting still 60s	'100.00'	'100.00'	'0.00'	'100.00'	'Inf'	'0.00'	'NaN'	'NaN'	'00:00:00'	'105.73'	'0.01'	'0.03'	'51.87'

### 34.4. Experiment results (plots)



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## Rozdział 35. video 9, GRD, WELCH\_ROI1

### 35.1. Experiment details

Experiment name : video 9, GRD, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(34)	'27.47'	'28.01'	'24.27'	'36.65'	'0.52'	'0.16'	'-0.08'	'0.00'	'00:05:45'	'105.60'	'0.10'	'0.04'	'151.62'

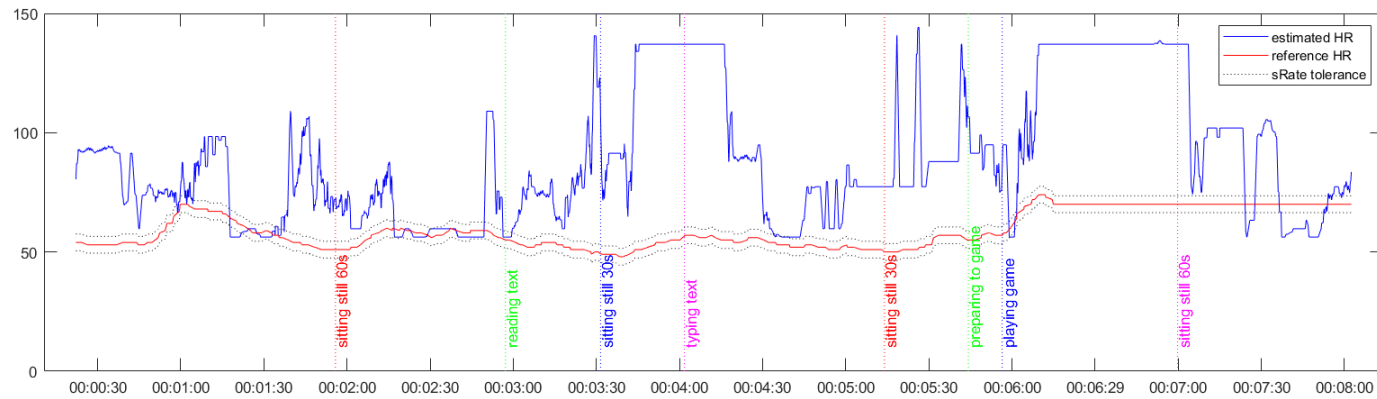
### 35.3. Experiment results (parts)

	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, WELCH\_ROI1

1:sitting still 60s	'8.44'	'9.83'	'12.85'	'15.37'	'0.17'	'0.53'	'-0.03'	'0.10'	'00:01:01'	'107.21'	'0.01'	'0.01'	'13.21'
2:reading text	'25.15'	'25.15'	'19.12'	'31.59'	'0.49'	'0.07'	'-0.75'	'0.00'	'00:00:34'	'105.81'	'0.01'	'0.01'	'13.94'
3:sitting still 30s	'65.14'	'65.14'	'22.74'	'68.99'	'1.25'	'0.00'	'0.86'	'0.00'	'00:00:30'	'102.11'	'0.02'	'0.01'	'6.28'
4:typing text	'33.69'	'33.69'	'26.57'	'42.91'	'0.62'	'0.06'	'0.76'	'0.00'	'00:01:12'	'105.21'	'0.01'	'0.06'	'28.56'
5:sitting still 30s	'38.65'	'38.65'	'17.85'	'42.57'	'0.73'	'0.00'	'0.14'	'0.00'	'00:00:30'	'113.28'	'0.01'	'0.01'	'7.69'
6:preparing to game	'34.04'	'34.04'	'7.39'	'34.84'	'0.60'	'0.00'	'-0.24'	'0.00'	'00:00:12'	'101.10'	'0.01'	'0.01'	'12.23'
7:playing game	'19.73'	'21.48'	'16.10'	'25.46'	'0.33'	'0.11'	'0.50'	'0.00'	'00:00:11'	'100.14'	'0.01'	'0.00'	'8.20'
8:sitting still 60s	'100.00'	'100.00'	'0.00'	'100.00'	'Inf'	'0.00'	'NaN'	'NaN'	'00:00:00'	'105.73'	'0.01'	'0.03'	'51.87'

### 35.4. Experiment results (plots)



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## Rozdział 36. video 9, ExG, WELCH\_ROI1

### 36.1. Experiment details

Experiment name : video 9, ExG, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(35)	'26.67'	'27.34'	'23.86'	'35.79'	'0.50'	'0.15'	'-0.00'	'0.57'	'00:05:45'	'105.60'	'0.10'	'0.04'	'151.62'

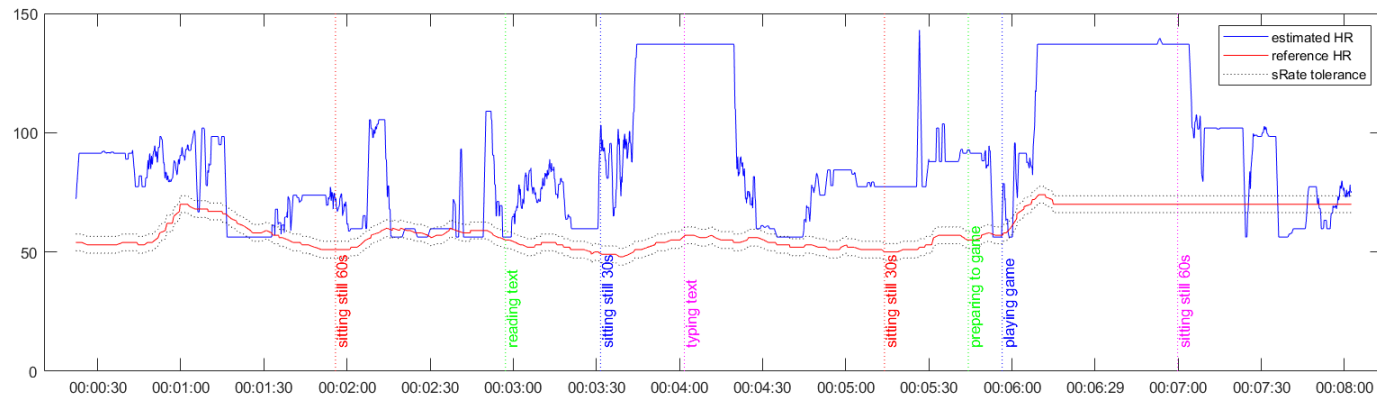
### 36.3. Experiment results (parts)

	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, WELCH\_ROI1

1:sitting still 60s	'11.17'	'12.48'	'16.51'	'19.93'	'0.22'	'0.49'	'0.08'	'0.00'	'00:01:01'	'107.21'	'0.01'	'0.01'	'13.21'
2:reading text	'17.48'	'17.48'	'9.44'	'19.86'	'0.33'	'0.06'	'0.32'	'0.00'	'00:00:34'	'105.81'	'0.01'	'0.01'	'13.94'
3:sitting still 30s	'65.99'	'65.99'	'22.01'	'69.56'	'1.26'	'0.00'	'0.85'	'0.00'	'00:00:30'	'102.11'	'0.02'	'0.01'	'6.28'
4:typing text	'35.08'	'35.08'	'28.55'	'45.22'	'0.65'	'0.06'	'0.61'	'0.00'	'00:01:12'	'105.21'	'0.01'	'0.06'	'28.56'
5:sitting still 30s	'32.68'	'32.68'	'9.88'	'34.14'	'0.61'	'0.00'	'0.47'	'0.00'	'00:00:30'	'113.28'	'0.01'	'0.01'	'7.69'
6:preparing to game	'23.42'	'23.84'	'15.90'	'28.31'	'0.42'	'0.27'	'-0.42'	'0.00'	'00:00:12'	'101.10'	'0.01'	'0.01'	'12.23'
7:playing game	'14.79'	'15.87'	'10.23'	'17.97'	'0.24'	'0.09'	'0.76'	'0.00'	'00:00:11'	'100.14'	'0.01'	'0.00'	'8.20'
8:sitting still 60s	'100.00'	'100.00'	'0.00'	'100.00'	'Inf'	'0.00'	'NaN'	'NaN'	'00:00:00'	'105.73'	'0.01'	'0.03'	'51.87'

### 36.4. Experiment results (plots)



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## Rozdział 37. video 9, ICA, WELCH\_ROI1

### 37.1. Experiment details

Experiment name : video 9, ICA, WELCH\_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-welch-hrpostmean

- results HR = : HR1

Error computation parameters :

- success rate tolerance = 3.52 [bpm]

- delay correction used = 10.40 [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_WELCH_ROI1_(36)	'26.24'	'27.03'	'22.92'	'34.84'	'0.49'	'0.12'	'0.01'	'0.11'	'00:05:45'	'105.60'	'0.10'	'0.04'	'151.62'

### 37.3. Experiment results (parts)

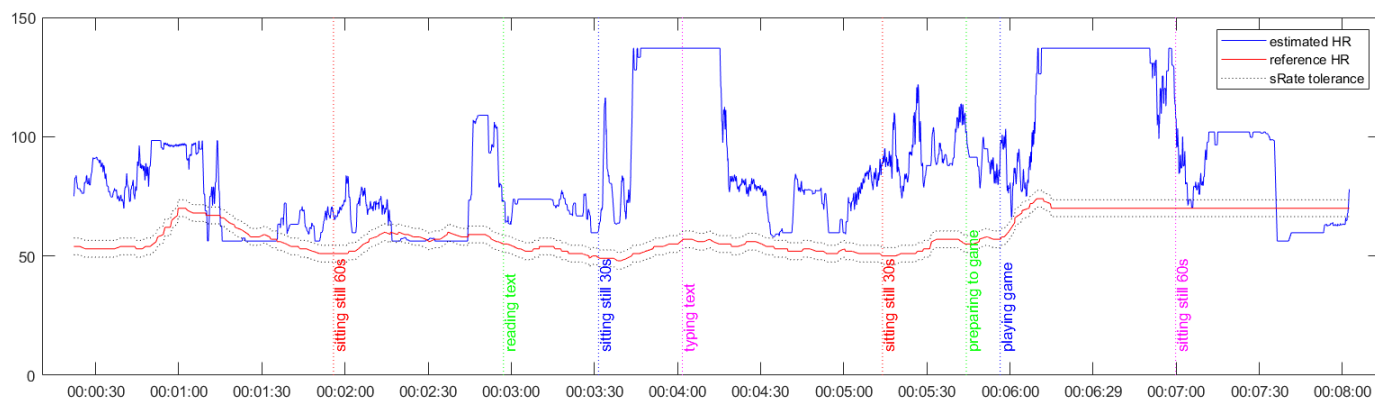
	me	mae	sde	rmse	Merp	sRate	r	p	duration	meanLight	stdAcc	stdRot	stdT
[units]	'[bpm]'	'[bpm]'	'[bpm]'	'[bpm]'	'[%]'	'[%]'	' '	' '	'[hh:mm:ss]'	'[lux]'	'G'	' '	' '



## Rozdział 37. video 9, ICA, WELCH\_ROI1

1:sitting still 60s	'12.63'	'14.27'	'16.94'	'21.12'	'0.25'	'0.43'	'-0.03'	'0.07'	'00:01:01'	'107.21'	'0.01'	'0.01'	'13.21'
2:reading text	'18.12'	'18.12'	'4.12'	'18.58'	'0.35'	'0.00'	'0.42'	'0.00'	'00:00:34'	'105.81'	'0.01'	'0.01'	'13.94'
3:sitting still 30s	'60.94'	'60.94'	'27.94'	'67.04'	'1.16'	'0.00'	'0.86'	'0.00'	'00:00:30'	'102.11'	'0.02'	'0.01'	'6.28'
4:typing text	'33.22'	'33.22'	'25.08'	'41.62'	'0.61'	'0.00'	'0.70'	'0.00'	'00:01:12'	'105.21'	'0.01'	'0.06'	'28.56'
5:sitting still 30s	'40.37'	'40.37'	'9.65'	'41.50'	'0.76'	'0.00'	'0.20'	'0.00'	'00:00:30'	'113.28'	'0.01'	'0.01'	'7.69'
6:preparing to game	'33.19'	'33.19'	'5.40'	'33.62'	'0.59'	'0.00'	'-0.19'	'0.00'	'00:00:12'	'101.10'	'0.01'	'0.01'	'12.23'
7:playing game	'20.65'	'20.65'	'11.24'	'23.51'	'0.33'	'0.00'	'-0.42'	'0.00'	'00:00:11'	'100.14'	'0.01'	'0.00'	'8.20'
8:sitting still 60s	'100.00'	'100.00'	'0.00'	'100.00'	'Inf'	'0.00'	'NaN'	'NaN'	'00:00:00'	'105.73'	'0.01'	'0.03'	'51.87'

### 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, WELCH ROII	'-3.55'	'7.56'	'10.14'	'10.74'	'0.09'	'0.48'	'-0.11'	'0.00'	'00:05:34'	'71.95'	'0.13'	'0.02'	'65.47'
video 1, GRD, WELCH ROII	'0.11'	'3.03'	'4.45'	'4.45'	'0.04'	'0.76'	'0.18'	'0.00'	'00:05:34'	'71.95'	'0.13'	'0.02'	'65.47'
video 1, ExG, WELCH ROII	'0.72'	'2.26'	'3.10'	'3.18'	'0.03'	'0.85'	'0.25'	'0.00'	'00:05:34'	'71.95'	'0.13'	'0.02'	'65.47'
video 1, ICA, WELCH ROII	'-2.96'	'4.80'	'7.20'	'7.78'	'0.06'	'0.71'	'-0.25'	'0.00'	'00:05:34'	'71.95'	'0.13'	'0.02'	'65.47'
video 2, G, WELCH ROII	'-9.61'	'11.49'	'13.44'	'16.52'	'0.11'	'0.27'	'0.14'	'0.00'	'00:04:54'	'86.09'	'0.12'	'0.03'	'41.04'
video 2, GRD, WELCH ROII	'-9.86'	'10.43'	'11.60'	'15.22'	'0.10'	'0.41'	'0.30'	'0.00'	'00:04:54'	'86.09'	'0.12'	'0.03'	'41.04'
video 2, ExG, WELCH ROII	'-9.86'	'10.49'	'12.16'	'15.66'	'0.10'	'0.39'	'0.23'	'0.00'	'00:04:54'	'86.09'	'0.12'	'0.03'	'41.04'
video 2, ICA, WELCH ROII	'-8.93'	'9.75'	'11.68'	'14.70'	'0.10'	'0.40'	'0.35'	'0.00'	'00:04:54'	'86.09'	'0.12'	'0.03'	'41.04'
video 3, G, WELCH ROII	'6.84'	'9.64'	'15.03'	'16.51'	'0.13'	'0.47'	'-0.13'	'0.00'	'00:05:30'	'39.90'	'0.11'	'0.08'	'26.67'
video 3, GRD, WELCH ROII	'6.32'	'8.65'	'12.42'	'13.94'	'0.12'	'0.49'	'0.04'	'0.00'	'00:05:30'	'39.90'	'0.11'	'0.08'	'26.67'
video 3, ExG, WELCH ROII	'4.63'	'7.27'	'11.99'	'12.85'	'0.10'	'0.57'	'-0.03'	'0.00'	'00:05:30'	'39.90'	'0.11'	'0.08'	'26.67'
video 3, ICA, WELCH ROII	'0.34'	'1.95'	'2.76'	'2.78'	'0.03'	'0.83'	'0.78'	'0.00'	'00:05:30'	'39.90'	'0.11'	'0.08'	'26.67'
video 4, G, WELCH ROII	'4.99'	'6.56'	'8.78'	'10.10'	'0.10'	'0.45'	'-0.01'	'0.04'	'00:05:20'	'53.90'	'0.11'	'0.03'	'105.00'
video 4, GRD, WELCH ROII	'5.37'	'6.95'	'10.26'	'11.59'	'0.10'	'0.55'	'0.17'	'0.00'	'00:05:20'	'53.90'	'0.11'	'0.03'	'105.00'
video 4, ExG, WELCH ROII	'2.91'	'4.36'	'6.75'	'7.35'	'0.06'	'0.65'	'0.23'	'0.00'	'00:05:20'	'53.90'	'0.11'	'0.03'	'105.00'
video 4, ICA, WELCH ROII	'1.18'	'2.39'	'2.98'	'3.21'	'0.03'	'0.78'	'0.55'	'0.00'	'00:05:20'	'53.90'	'0.11'	'0.03'	'105.00'
video 5, G, WELCH ROII	'-0.99'	'2.42'	'3.81'	'3.94'	'0.03'	'0.84'	'0.58'	'0.00'	'00:05:49'	'950.08'	'0.12'	'0.02'	'161.87'
video 5, GRD, WELCH ROII	'0.04'	'1.65'	'2.15'	'2.15'	'0.02'	'0.91'	'0.88'	'0.00'	'00:05:49'	'950.08'	'0.12'	'0.02'	'161.87'
video 5, ExG, WELCH ROII	'-0.08'	'1.77'	'2.52'	'2.52'	'0.02'	'0.91'	'0.83'	'0.00'	'00:05:49'	'950.08'	'0.12'	'0.02'	'161.87'
video 5, ICA, WELCH ROII	'-0.32'	'1.98'	'2.75'	'2.77'	'0.03'	'0.87'	'0.77'	'0.00'	'00:05:49'	'950.08'	'0.12'	'0.02'	'161.87'
video 6, G, WELCH ROII	'5.52'	'9.02'	'12.93'	'14.06'	'0.12'	'0.43'	'0.05'	'0.00'	'00:05:47'	'27.18'	'0.11'	'0.06'	'85.57'
video 6, GRD, WELCH ROII	'5.71'	'8.62'	'12.20'	'13.47'	'0.11'	'0.42'	'0.06'	'0.00'	'00:05:47'	'27.18'	'0.11'	'0.06'	'85.57'
video 6, ExG, WELCH ROII	'4.10'	'5.49'	'10.37'	'11.15'	'0.07'	'0.65'	'0.25'	'0.00'	'00:05:47'	'27.18'	'0.11'	'0.06'	'85.57'
video 6, ICA, WELCH ROII	'2.35'	'4.34'	'6.78'	'7.18'	'0.05'	'0.62'	'0.42'	'0.00'	'00:05:47'	'27.18'	'0.11'	'0.06'	'85.57'
video 7, G, WELCH ROII	'1.64'	'2.42'	'3.08'	'3.49'	'0.04'	'0.80'	'0.42'	'0.00'	'00:05:57'	'152.14'	'0.12'	'0.07'	'69.85'
video 7, GRD, WELCH ROII	'2.04'	'2.48'	'3.05'	'3.67'	'0.04'	'0.84'	'0.33'	'0.00'	'00:05:57'	'152.14'	'0.12'	'0.07'	'69.85'
video 7, ExG, WELCH ROII	'1.83'	'2.22'	'2.88'	'3.41'	'0.03'	'0.86'	'0.54'	'0.00'	'00:05:57'	'152.14'	'0.12'	'0.07'	'69.85'
video 7, ICA, WELCH ROII	'1.36'	'1.75'	'1.69'	'2.17'	'0.03'	'0.91'	'0.71'	'0.00'	'00:05:57'	'152.14'	'0.12'	'0.07'	'69.85'
video 8, G, WELCH ROII	'0.86'	'4.51'	'6.72'	'6.78'	'0.06'	'0.61'	'0.44'	'0.00'	'00:05:56'	'48.95'	'0.10'	'0.07'	'30.65'
video 8, GRD, WELCH ROII	'10.67'	'13.39'	'14.36'	'17.89'	'0.18'	'0.19'	'-0.32'	'0.00'	'00:05:56'	'48.95'	'0.10'	'0.07'	'30.65'
video 8, ExG, WELCH ROII	'8.53'	'12.11'	'14.99'	'17.25'	'0.16'	'0.25'	'-0.37'	'0.00'	'00:05:56'	'48.95'	'0.10'	'0.07'	'30.65'
video 8, ICA, WELCH ROII	'-0.48'	'2.59'	'3.92'	'3.95'	'0.03'	'0.79'	'0.50'	'0.00'	'00:05:56'	'48.95'	'0.10'	'0.07'	'30.65'
video 9, G, WELCH ROII	'18.47'	'19.08'	'12.32'	'22.20'	'0.35'	'0.11'	'0.27'	'0.00'	'00:05:45'	'105.60'	'0.10'	'0.04'	'151.62'
video 9, GRD, WELCH ROII	'27.47'	'28.01'	'24.27'	'36.65'	'0.52'	'0.16'	'-0.08'	'0.00'	'00:05:45'	'105.60'	'0.10'	'0.04'	'151.62'
video 9, ExG, WELCH ROII	'26.67'	'27.34'	'23.86'	'35.79'	'0.50'	'0.15'	'-0.00'	'0.57'	'00:05:45'	'105.60'	'0.10'	'0.04'	'151.62'
video 9, ICA, WELCH ROII	'26.24'	'27.03'	'22.92'	'34.84'	'0.49'	'0.12'	'0.01'	'0.11'	'00:05:45'	'105.60'	'0.10'	'0.04'	'151.62'