**Appendix**

**Normal environment**

**Shirt’s pocket**

**01**

02

03

**04**

**05**

**06**

**07**

**08**

**09**

**Pant pocket 01** Value of accelerometer sensor (before + during + after) fall

**02**

**03**

**04**

**05**

**06**

**07**

Noisy environment

Shirt Pocket 01

02 Overall values of acceleration value (before + during + after) fall

03

04 During fall

05 During fall

06 During fall

07 During fall

08 During fall

09 During fall

10 During fall

During fall

Pant pocket

01 During fall

During fall

02 **During fall**

**During fall**

03 During fall

04 **During fall**

05 **During fall**

06 During fall

07 During fall

1st human shaped dummy

Shirt pocket Test: 01

Test: 02

Test: 03

Test: 04

Test: 05

Test: 06

Test: 07

Test: 08

Test: 09

Test: 10

Pants Pocket

Test: 01

Test: 02

Test: 03

Test: 04

Test: 05

Test: 06

Test: 07

Test: 08

Test: 09

Test: 10

Second scarecrow

Shirt’s pocket

Test: 01

Test: 02

Test: 03

Test: 04

Test: 05

Test: 06

Test: 07

Test: 08

Test: 09

Test: 10

Pants Pocket

Test: 01

Test: 02

Test: 03

Test: 04

Test: 05

Test: 06

Test: 07

Test: 08

Test: 09

Test: 10