



Fig. 1: (a) Overall study design (b) Stages and instruments involved in the user evaluation

TABLE I: Questionnaire 1

#	Question
Q1	I expect this investigation can help prevent falls.
Q2	I believe if I wear this device I will have difficulties doing daily activities.
Q3	I am worried the equipment will not give good enough signals for the research.
Q4	I am afraid the equipment will fall from its attached position if I move too much.
Q5	I am afraid the equipment will break if I move too much.
Q6	I am afraid the equipment will harm me.

TABLE II: Questionnaire 2

Dimension	#	Question
Hygiene	Q1	How did you experience wearing the equipment attached to a special garment?
	Q2	Did you experience a feeling of sweat and discomfort while wearing the garment and device?
Physical	Q3	How did you experience wearing the equipment while performing activities?
	Q4	Were you hindered by the equipment while walking?
	Q5	Were you hindered by the equipment while sitting?
	Q6	Were you hindered by the equipment while lying?
Anxiety	Q7	I was frightened by this technology.
	Q8	I don't want the equipment to be seen by others.
	Q9	I don't like the feeling of being monitored.
	Q10	I am afraid the equipment might suddenly stop working
Equipment	Q11	Wearing the equipment was no problem.
	Q12	I just forgot I am wearing it.
	Q13	I am satisfied using the equipment
	Q14	I find the equipment easy to use.
Privacy	Q15	How did you experience wearing the equipment knowing that someone could be aware of some of your activities?
	Q16	I am comfortable being monitored if it can prevent injuries.
	Q17	I am comfortable with being monitored even if there is no medical reason for this
	Q18	I am comfortable being monitored if I was able to get earlier help after a fall
	Q19	I am comfortable with being monitored if I was forgetful and forgot to ask for help