Supplementary Materials: Comparing Semantic Differential Methods in Affective Engineering Processes: A Case Study on Vehicle Instrument Panels

Gee Won Shin, Sunghwan Park, Yong Min Kim, Yushin Lee and Myung Hwan Yun

<Absolute Evaluation 1>

Sample No. 2

- Please rate the visual or tactile feeling from leather samples in terms of given semantic pairs.
- · Please, use appropriate interaction methods.
- * Perform at least one interaction per semantic pair.

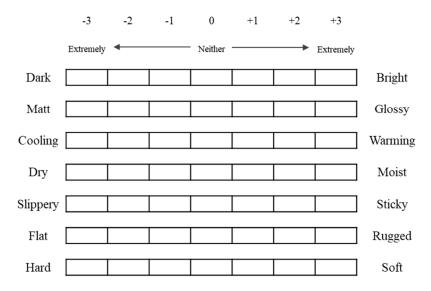


Figure S1. An Example of evaluation questionnaire administered in Absolute Evaluation 1.

<Absolute Evaluation 2>

- Please rate the visual or tactile feeling from leather samples in terms of given semantic pairs.
- Please, use appropriate interaction methods.
- * Perform at least one interaction per semantic pair.
- · Please, fill out the correct location for each sample.

Dark	-3	-2	-1	0	+1	+2	+3	Bright
	Extremely	←		Neither			Extremely	
Sample 1								
Sample 2								
Sample 3								
Sample 4								
Sample 5								
Sample 6								

Figure S2. An Example of evaluation questionnaire administered in Absolute Evaluation 2.

<Relative Evaluation>

Reference Sample No. 1

Evaluation Sample No. 4

- Please rate the visual or tactile feeling from leather samples in terms of given semantic pairs.
- · Please, use appropriate interaction methods.
- * Perform at least one interaction per semantic pair.
- Please, evaluate a given sample comparing to a reference sample.

Evaluation sample is more -3 -2 0 -1 +1+2 +3 Neither ➤ Extremely Extremely Dark Bright Glossy Matt Cooling Warming Dıy Moist Slippery Sticky Flat Rugged Hard Soft

Figure S3. An Example of evaluation questionnaire administered in Relative Evaluation.

< Perceived Distinguishability>

	Distinguishability in Samples								
Evaluated Semantic Pairs	Very difficult	Difficult	Little difficult	Neither	Little easy	Easy	Very easy		
Dark – Bright	1)	2	3	4	(5)	6	7		
Matt – Glossy	1	2	3	4	(5)	6	7		
Cooling – Warming	1	2	3	4	(5)	6	7		
Dry – Moist	1	2	3	4	(5)	6	7		
Slippery – Sticky	1	2	3	4	(5)	6	7		
Flat – Rugged	1	2	3	4	(5)	6	7		
Hard – Soft	1	2	3	4	(5)	6	7		

Figure S4. An Example of evaluation questionnaire administered in Perceived Distinguishability.