

Supplementary Materials:

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Supplementary Section:

Statistical test results on thermal comfort and thermal sensation

Table S1. Results of paired-sample T test on thermal sensation.

Paired Samples Statistics And Test													
Paired Differences													
		Mea n	N	Std. De- viation	Std. Error Mea n	Mea n	Std. De- viation	Std. Error Mean	95% Confi- dence Inter- val of the Difference		t	df	Sig. (2- tailed)
									Low er	Up- per			
Pair 1	TSV (r)	1.166 7	12	0.62668	0.180 91	1.498 33	0.62717	0.18105	1.099 85	1.896 82	8. 27 6	11	0.000
	TSV (s)	- 0.331 7	12	0.28463	0.082 17								

As shown in Table S1, $t=8.276$, $P(\text{Sig. (2-tailed)})=0.000 < 0.05$, which shows that the difference is statistically significant.

Table S2. Results of paired-sample T test on thermal comfort.

Paired Samples Statistics And Test													
		Mea n	N	Std. Deviation	Std. Error Mea n	Paired Differences					t	df	Sig. (2- tailed)
						Mea n	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
									Lower	Upper			
Pair 1	TCV (r)	- 0.4717	12	0.77234	0.22295	1.13833	0.50187	0.14488	-1.45720	-0.81946	-7.857	11	0.000
	TCV (s)	0.6667	12	0.40178	0.11598				1.45720	0.81946			

As shown in Table S2, $t=8.276$, $P(\text{Sig. (2-tailed)})=0.000 < 0.05$, which shows that the difference is statistically significant.

Table S3. The results of unary linear regression on TSV(r).

Variables Entered/Removed ^a						
Model	Variables Entered	Variables Removed			Method	
1	Time ^b				Enter	
a. Dependent Variable: TSV (r)						
b. All requested variables entered.						
Model Summary						
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate		
1	.790 ^a	0.624	0.586	0.40316		
a. Predictors: (Constant), Time						
ANOVA ^a						
Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	2.695	1	2.695	16.578	.002 ^b
	Residual	1.625	10	0.163		
	Total	4.320	11			
a. Dependent Variable: TSV (r)						
b. Predictors: (Constant), Time						
Coefficients ^a						
Model		Unstandardized		Standardized	t	Sig.
		Coefficients		Coefficients		
		B	Std. Error	Beta		
1	(Constant)	0.274	0.248		1.106	0.295
	Time	0.027	0.007	0.790	4.072	0.002

As shown in Table S3.(ANOVA^a), $P(\text{Sig.})=0.002 < 0.05$, which shows that the regression model is statistically significant.

As shown in Table S3.(Coefficients^a), $P(\text{Sig.})=0.002 < 0.05$, which shows that the slope is statistically significant.

Table S4. The results of unary linear regression on TSV(s).

Variables Entered/Removed ^a						
Model	Variables Entered	Variables Removed	Method			
1	Time ^b		Enter			
a. Dependent Variable: TSV（s）						
b. All requested variables entered.						
Model Summary						
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate		
1	.092 ^a	0.008	-0.091	0.29725		
a. Predictors: (Constant), Time						
ANOVA ^a						
	Model	Sum of Squares	df	Mean Square	F	Sig.
1	Regression	0.008	1	0.008	0.086	.776 ^b
	Residual	0.884	10	0.088		
	Total	0.891	11			
a. Dependent Variable: TSV（s）						
b. Predictors: (Constant), Time						
Coefficients ^a						
	Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-0.284	0.183		-1.555	0.151
	Time	-0.001	0.005	-0.092	-0.293	0.776
a. Dependent Variable: TSV（s）						

As shown in Table S4.(ANOVA^a), $P(\text{Sig.})=0.776 > 0.05$, which shows that the regression model is not statistically significant.

As shown in Table S4.(Coefficients^a), $P(\text{Sig.})=0.776 > 0.05$, which shows that the slope is not statistically significant.

Table S5. The results of unary linear regression on TCV(r).

Variables Entered/Removed ^a						
Model	Variables Entered	Variables Removed	Method			
1	Time ^b		Enter			
a. Dependent Variable: TCV (r)						
b. All requested variables entered.						
Model Summary						
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate		
1	.779 ^a	0.607	0.567	0.50798		
a. Predictors: (Constant), Time						
ANOVA ^a						
	Model	Sum of Squares	df	Mean Square	F	Sig.
1	Regression	3.981	1	3.981	15.428	.003 ^b
	Residual	2.580	10	0.258		
	Total	6.562	11			
a. Dependent Variable: TCV (r)						
b. Predictors: (Constant), Time						
Coefficients ^a						
	Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	0.613	0.313		1.960	0.078
	Time	-0.033	0.008	-0.779	-3.928	0.003
a. Dependent Variable: TCV (r)						

As shown in Table S5. (ANOVA^a), $P(\text{Sig.}) = 0.003 < 0.05$, which shows that the regression model is statistically significant.

As shown in Table S5. (Coefficients^a), $P(\text{Sig.}) = 0.003 < 0.05$, which shows that the slope is statistically significant.

Table S6. The results of unary linear regression on TCV(s).

Variables Entered/Removed ^a						
Model	Variables Entered	Variables Removed	Method			
1	Time ^b		Enter			
a. Dependent Variable: TCV (s)						
b. All requested variables entered.						
Model Summary						
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate		
1	.626 ^a	0.391	0.331	0.32872		
a. Predictors: (Constant), Time						
ANOVA ^a						
Model	Sum of Squares	df	Mean Square	F	Sig.	
1	Regression	0.695	1	0.695	6.433	.030 ^b
	Residual	1.081	10	0.108		
	Total	1.776	11			
a. Dependent Variable: TCV (s)						
b. Predictors: (Constant), Time						
Coefficients ^a						
Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.	
	B	Std. Error	Beta			
1	(Constant)	1.120	0.202		5.535	0.000
	Time	-0.014	0.005	-0.626	-2.536	0.030
a. Dependent Variable: TCV (s)						

As shown in Table S6. (ANOVA^a), $P(\text{Sig.}) = 0.030 < 0.05$, which shows that the regression model is statistically significant.

As shown in Table S6. (Coefficients^a), $P(\text{Sig.}) = 0.030 < 0.05$, which shows that the slope is statistically significant.

Table S1 show the results of paired-sample T test on thermal sensation: Paired Samples Statistics and Paired Samples Test.

Table S2 show the results of paired-sample T test on thermal comfort: Paired Samples Statistics and Paired Samples Test.

Table S3 show the results of unary linear regression on TSV(r): Variables Entered/Removed^a; Model Summary; ANOVA^a; Coefficients^a.

Table S4 show the results of unary linear regression on TSV(s): Variables Entered/Removed^a; Model Summary; ANOVA^a; Coefficients^a.

Table S5 show the results of unary linear regression on TCV(r): Variables Entered/Removed^a; Model Summary; ANOVA^a; Coefficients^a.

Table S6 show the results of unary linear regression on TCV(s): Variables Entered/Removed^a; Model Summary; ANOVA^a; Coefficients^a.