#	Feature	Code	Data Source	Description
1	hour	hour	Mobile App	The hour of a day (24-hour format) when participant sends the thermal comfort vote
2	age	age	Participants	Participant's age in years
3	weight	weight		Participant's weight in kilograms (kg)
4	height	height		Participant's height in meters (m)
5	gender	gender		Participant's gender (1: male, 2: female)
6	air temperature	at	BiB Device	Average room air temperature in degrees Celsius (°C)
7	relative humidity	rh		Average room relative humidity in percentage (%)
8	metabolic rate	met	Microsoft Band 2	Participant's metabolic rate in metabolic equivalent (met)
9	clothing level	cl	Participants	Participant's clothing insulation/level plus the general office chair insulation
10	heart rate	hr	Microsoft Band 2	Participant's hear rate in beats per minute (bpm)
11	skin temperature	st		Participant's skin temperature in degrees Celsius (°C)
12	actual thermal index	ati (-3-2)	Participants	Participant's actual thermal comfort index, ranging from -3 to +2
13		ati (0-5)		Since some algorithms cannot handle negative numbers, we convert ati (-3-2) to ati (0-5) by adding +3, ranging from 0 to 5
14		ati (-3-3)		Participant's actual thermal comfort index, ranging from -3 to +3
15		ati (0-6)		Since some algorithms cannot handle negative numbers, we convert ati (-3-3) to ati (0-6) by adding +3, ranging from 0 to 6

Feature correlation analysis between various features and thermal comfort index

Table 1 Pearson correlation coefficient r analysis

Feature	*Coefficient r	p-value
skin temperature	0.532	<0.05
air temperature	0.485	
heart rate	0.248	
clothing level	-0.236	
relative humidity	0.113	
age	-0.059	
hour	0.058	
height	-0.0055	
metabolic rate	0.017	0.271
weight	0.016	0.281
gender	0.014	0.353

*Coefficient r has the strong association if 0.5 <= $|r|$ <= 1, the medium association if 0.3 <= $|r|$ < 0.5, and the weak association if 0 <= $|r|$ < 0.3.