**Variable description for the following paper:**

*Liu et al. (2019) Personal thermal comfort models with wearable sensors. Building and Environment (under review)*

**ID:** Subject ID number

**Sex:** Male and Female

**Age:** (#)

**Height:** (m)

**Weight:** (Kg)

ColdSens: Sensitivity to the thermal environment: continuous scale 0 (Much lower sensitivity) to 5 (to Much higher sensitivity); *Question: please indicate how sensitive you think you are to thermal conditions.*

ColdExp: Cold extremity experience: continuous scale 0 (Never) to 5 (Always); *Question: Have you suffered from cold hands or feet during the past two months?*

**Workhr:** Hours of working out per week

**Coffeeintake:** Cups (8 oz) of coffee intake

**Vote\_time:** The time when a subject took a vote

**therm\_sens:** Thermal sensation from -3 to 3

**therm\_pref:** Thermal preference (Warmer = 1, No change =0, Cooler = -1)

**Location:** (1 = indoor; -1 = outdoor)

**mean.Temperature\_60 :** Mean outdoor air temperature over 60 min before the vote

**grad.Temperature\_60:** Gradient of outdoor air temperature over 60 min before the vote

**sd.Temperature\_60:** Standard deviation of outdoor air temperature over 60 min before the vote

**mean.Temperature\_480:** Mean outdoor air temperature over 60 min before the vote

**grad.Temperature\_480:** Gradient of outdoor air temperature over 60 min before the vote

**sd.Temperature\_480:** Standard deviation of outdoor air temperature over 60 min before the vote

**mean.Humidity\_60:** Mean outdoor air relative humidity over 60 min before the vote

**grad.Humidity\_60:** Gradient of outdoor air relative humidity over 60 min before the vote

**sd.Humidity\_60:** Standard deviation of outdoor air relative humidity over 60 min before the vote

**mean.Humidity\_480:** Mean outdoor air relative humidity over 480 min before the vote

**grad.Humidity\_480:** Gradient of outdoor air relative humidity over 480 min before the vote

**sd.Humidity\_480:** Standard deviation of outdoor air relative humidity over 480 min before the vote

**mean.Winvel\_60:** Mean outdoor wind speed over 60 min before the vote

**grad.Winvel\_60:** Gradient of outdoor wind speed over 60 min before the vote

**sd.Winvel\_60:** Standard deviation of outdoor wind speed over 60 min before the vote

**mean.Winvel\_480:** Mean outdoor wind speed over 480 min before the vote

**grad.Winvel\_480:** Gradient of outdoor wind speed over 480 min before the vote

**sd.Winvel\_480:** Standard deviation of outdoor wind speed over 480 min before the vote

**mean.Solar\_60:** Mean solar radiation over 60 min before the vote

**grad.Solar\_60:** Gradient of solar radiation over 60 min before the vote

**sd.Solar\_60:** Standard deviation of solar radiation over 60 min before the vote

**mean.Solar\_480:** Mean solar radiation over 480 min before the vote

**grad.Solar\_480:** Gradient of solar radiation over 480 min before the vote

**sd.Solar\_480:** Standard deviation of solar radiation over 480 min before the vote

**mean.hr\_5:** Mean heart rate over 5 min before the vote

**grad.hr\_5:** Gradient of heart rate over 5 min before the vote

**sd.hr\_5 :** Standard deviation of heart rate over 5 min before the vote

**mean.hr\_15:** Mean heart rate over 15 min before the vote

**grad.hr\_15:** Gradient of heart rate over 15 min before the vote

**sd.hr\_15:** Standard deviation of heart rate over 15 min before the vote

**mean.hr\_60:** Mean heart rate over 60 min before the vote

**grad.hr\_60:** Gradient of heart rate over 60 min before the vote

**sd.hr\_60:** Standard deviation of heart rate over 60 min before the vote

**mean.WristT\_5:** Mean wrist skin temperature over 5 min before the vote

**grad.WristT\_5:** Gradient of wrist skin temperature over 5 min before the vote

**sd.WristT\_5:** Standard deviation of wrist skin temperature over 5 min before the vote

**mean.WristT\_15:** Mean wrist skin temperature over 15 min before the vote

**grad.WristT\_15:** Gradient of wrist skin temperature over 15 min before the vote

**sd.WristT\_15:** Standard deviation of wrist skin temperature over 15 min before the vote

**mean.WristT\_60:** Mean wrist skin temperature over 60 min before the vote

**grad.WristT\_60:** Gradient of wrist skin temperature over 60 min before the vote

**sd.WristT\_60:** Standard deviation of wrist skin temperature over 60 min before the vote

**mean.AnkleT\_5:** Mean ankle skin temperature over 5 min before the vote

**grad.AnkleT\_5:** Gradient of ankle skin temperature over 5 min before the vote

**sd.AnkleT\_5:** Standard deviation of ankle skin temperature over 5 min before the vote

**mean.AnkleT\_15:** Mean ankle skin temperature over 15 min before the vote

**grad.AnkleT\_15:** Gradient of ankle skin temperature over 15 min before the vote

**sd.AnkleT\_15:** Standard deviation of ankle skin temperature over 15 min before the vote

**mean.AnkleT\_60:** Mean ankle skin temperature over 60 min before the vote

**grad.AnkleT\_60:** Gradient of ankle skin temperature over 60 min before the vote

**sd.AnkleT\_60:** Standard deviation of ankle skin temperature over 60 min before the vote

**mean.PantT\_5:** Mean body proximity temperature over 5 min before the vote

**grad.PantT\_5:** Gradient of body proximity temperature over 5 min before the vote

**sd.PantT\_5:** Standard deviation of body proximity temperature over 5 min before the vote

**mean.PantT\_15:** Mean body proximity temperature over 15 min before the vote

**grad.PantT\_15:** Gradient of body proximity temperature over 15 min before the vote

**sd.PantT\_15:** Standard deviation of body proximity temperature over 15 min before the vote

**mean.PantT\_60:** Mean body proximity temperature over 60 min before the vote

**grad.PantT\_60:** Gradient of body proximity temperature over 60 min before the vote

**sd.PantT\_60:** Standard deviation of body proximity temperature over 60 min before the vote

**mean.act\_5:** Mean wrist accelerationover 5 min before the vote

**grad.act\_5:** Gradient of wrist accelerationover 5 min before the vote

**sd.act\_5:** Standard deviation of wrist accelerationover 5 min before the vote

**mean.act\_15:** Mean wrist accelerationover 15 min before the vote

**grad.act\_15:** Gradient of wrist accelerationover 15 min before the vote

**sd.act\_15:** Standard deviation of wrist accelerationover 15 min before the vote

**mean.act\_60:** Mean wrist accelerationover 60 min before the vote

**grad.act\_60:** Gradient of wrist accelerationover 60 min before the vote

**sd.act\_60:** Standard deviation of wrist accelerationover 60 min before the vote

**Units:**

**Temperature:** ˚C

**Wind speed:** m/s

**Heart rate:** bpm

**Acceleration:** m/s2