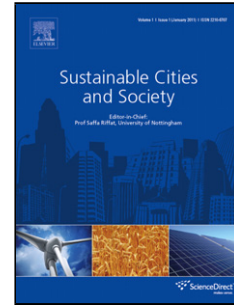


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**Highlights:**

- Meteorological parameters were collected in an urban park during winter;
- The relationship between thermal sensation and comfort were investigated;
- Outdoor human thermal comfort varied with landscape in urban park;
- UTCI was the most suitable index to evaluate the human thermal comfort in Xi'an;
- The neutral PET and the neutral UTCI ranged within 13.3-23.6°C and 14.9-23.2°C.

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