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Development of a fine-scale discomfort index map and its application in measuring living environments using remotely-sensed thermal infrared imagery

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Highlights

- Deriving discomfort index using a sharpened 10 m resolution satellite thermal infrared image
- Representing thermal discomfort levels of a city with a fine-scale DI map rather than a single value
- Revealing spatial differences of human thermal discomfort sensation in a city
- Determining the characteristics of living environments corresponding to different DI grades
- Discovering the differences in the contributions of built land, vegetation and water to DI

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