

# Review of: "A QGIS Grid-Based Study to Understand the Relationship Between Land Surface Temperature and Greenness in Urban Areas"

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Potential competing interests: No potential competing interests to declare.

Esteemed Author,

Thank you very much for the operational and software-oriented research you provided. As a referee, I remind you of the following tips to make the manuscript stronger and richer:

1. The abstract is very short. I suggest elaborating it by considering the main format of the abstract, which consists of: introduction, justification, materials and methods, results, and conclusion (in a succinct manner). Please note that about 2 lines are enough for each part. Also, keywords are an essential segment of an abstract.
2. Why didn't you use Landsat-9 data instead of Landsat-8 data? As we know, in the former, some improvements have been made, including a higher radiometric resolution for OLI-2 (14-bit quantization increased from 12 bits for Landsat 8), which allows the sensors to detect more subtle differences.
3. In the QGIS plugin, which metrics and indices are applied to determine the LST (SST)/NDVI (Greenness) values to get the best results?
4. In my opinion, the relationship between the greenness index/NDVI and LST/SST is scientifically and rationally negative, but significant and obvious. The probable and main reason in the current research that leads to the non-significance of the relationship is the need for real-time and supervised sampling and measuring of the real items, not just using the grid-based or unsupervised LST/NDVI measurement. In this way, it may be closer to the reasonable and rational behavior of LST-NDVI measures.
5. As an accuracy assessment step, it is better to consider the validation process using some metrics to show the preciseness of the work.
6. An overview of the manuscript is required. References should preferably be arranged in alphabetical order.

Regards,

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