Predicting the Solar Potential of Rooftops using Image Segmentation and Structured Data

Report

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Abstract

Roofs make up an approximate area of ... m^2. Much of this area could be used to install solar panels and help feed demand for renewably generated energy. Solar panels are a cost effective solution for generating energy in a carbon-free manner. However, not every roof is suitable for installing solar panel. Architecture and location heavily effect the viability of such systems. Predicting this solar potential of a roof is traditionally a labour intensive process requiring on site measurements. Automating this process and scale it up is a difficult challenge. Here, we will introduce a solution proposed by [1], review it, and compare it to other approaches.

Introduction

de Barros Soares et al. [1]

Background & Existing approaches

Method

Discussion

Conclusion

References

References

[1] Daniel de Barros Soares, François Andrieux, Bastien Hell, Julien Lenhardt, Jordi Badosa, Sylvain Gavoille, Stéphane Gaïffas, and Emmanuel Bacry. Predicting the solar potential of rooftops using image segmentation and structured data. In *NIPS Proceedings*, 2021.