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Title: Solar On-site Energy Outdoor Identification System
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Why is accurate identification of solar photovoltaic (PV) rooftop installations important?
Abstract: Accurate identification of solar photovoltaic (PV) rooftop installations is crucial for renewable energy planning and resource assessment.

Does Al-Qassim region have optimal solar plant site identification?
To the best of our knowledge,no studyhas addressed the subject of optimal solar plant site identification for the Al-Qassim region,although developing renewable energy in Saudi Arabia has been put on the agenda. This paper developed a spatial MCDA framework catering to the characteristics of the Al-Qassim region.

Can satellite imagery be used to identify solar PV systems?
One possible solution to this problem is to identify existing solar PV generation systems using overhead satellite and aerial imagery. While there have been early promising attempts in this direction, there are nevertheless many important research challenges that remain to be addressed.

How to detect solar PV arrays in a geospatial region?
We design a solar PV array detection system--SolarDetector,which can automatically detect and profile distributed solar photovoltaic arrays in a given geospatial region with low (re)training costs. First,SolarDetector leverages Google Maps API and OpenStreet Maps API to download and preprocess the rooftop solar PV arrays in a given region.

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