

## Automatic Solar Panel Detection from Remote Sensing Images Using Deep Convolutional Networks

### Disclosure Number

201603646

### Technology Summary

The invention relates to image analysis and more specifically to a method for identifying objects within an image such as solar panels. Remote sensing imagery provides a complete and cost-effective data source for mapping semantic objects. However, there is no automatic method that works reliably on large images with complex scenes, because of large variations of object appearances. The developed technique is capable of automatically identifying installed solar panels from aerial view images. Experiments show that the technique produces accurate results on large, real-world datasets. This technique can be applied to identifying other objects as well.

### Inventor

YUAN, JIANGYE  
Computational Sciences & Engineering Div

### Licensing Contact

SIMS, DAVID L  
UT-Battelle, LLC  
Oak Ridge National Laboratory  
Rm 124C, Bldg 4500N6196  
1 Bethel Valley Road  
Oak Ridge, TN 37831

Office Phone: (865) 241-3808

E-Mail: [SIMSDL@ORNL.GOV](mailto:SIMSDL@ORNL.GOV)