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Title: Identifying urban villages from city-wide satellite imagery leveraging mask R-CNN

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The article is about how we can use a neural network to analyze the increase the urban village, is a research article by Xiamen University and published as part of UbiCompU/ISWC'19 conference proceedings.

The mission research is development framework that it can find a different urban village and they can use the data by find and study the increase these urban village, so the traditional methods are expensive and it need more people, so they have to go to realize surveys for more time is necessary.

They did use the photograph of city Xiamen, the said that is easy find and its ca be obtained from various geographic, such as Google.

Their framework successfully because identify the urban villages with various sizes and locations. For example, their framework detects 75 urbans villages, among which 69 of them are true.

They detect the urban villages and segment their geographic using high-resolution satellite image. They propose a framework using the model Mask-RCNN for instance detection and segmentation and the framework was used in Xiamen Island. They will use the framework in the future and research how increase the urban village in Xiamen Island.

In this article I learned how we can use convolutional neuronal network; I didn't know there are different types of neuronal networks, I thought that only there was one, and you have to train for it do what do you needed. Now I know that a convolutional neuronal network it used because it can recognize pattens, that is why they used that type, so they can recognize the patterns of urban villages in the satellite image.