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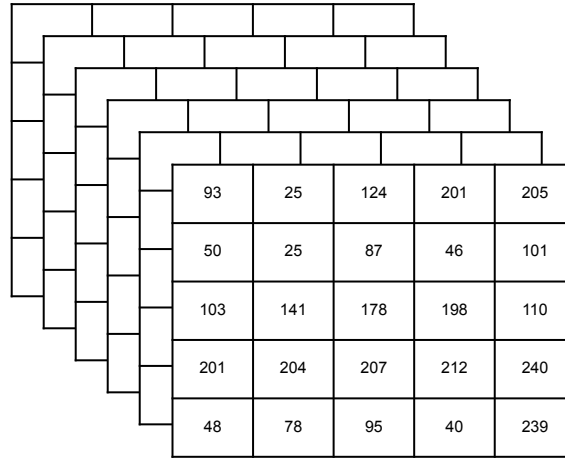
BARCELONA

**MASTER IN CITY & TECHNOLOGY
AI IN URBANISM
2019/2020**

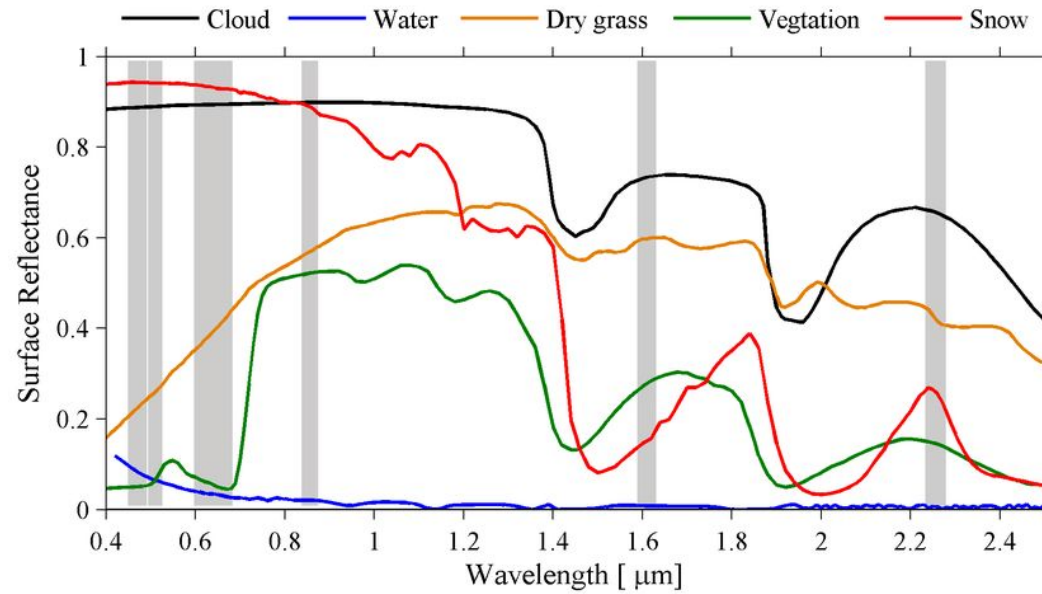
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Introduction to satellite imagery

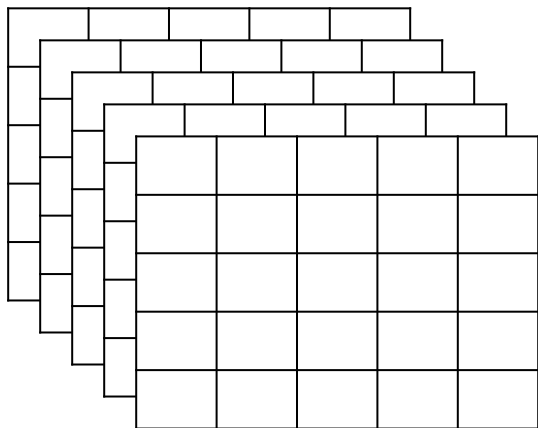


Multidimensional array of pixels



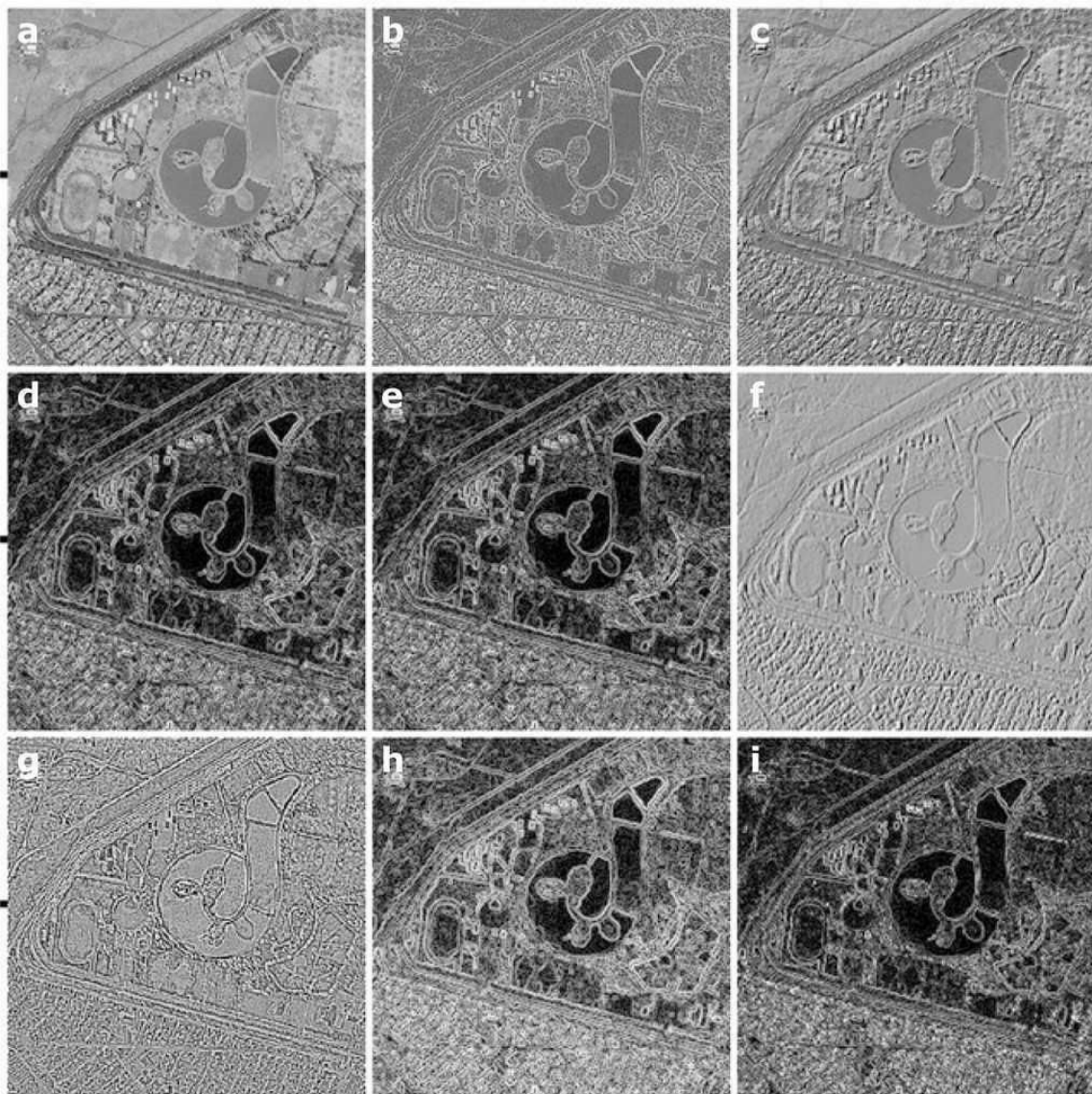
Source:

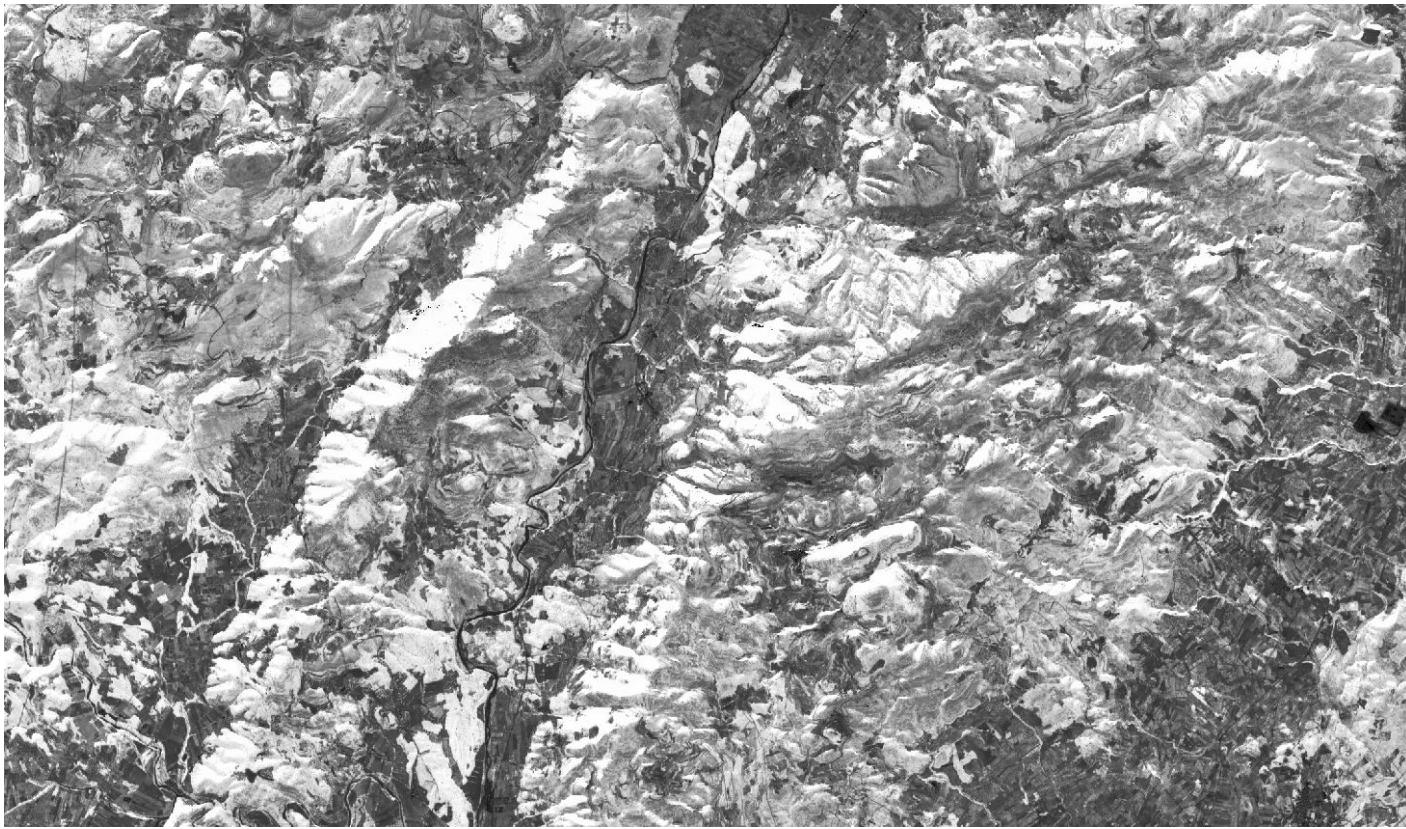
https://www.researchgate.net/publication/318843407_A_Fast_Cloud_Detection_Algorithm_Applicable_to_Monitoring_and_Nowcasting_of_Daytime_Cloud_Systems



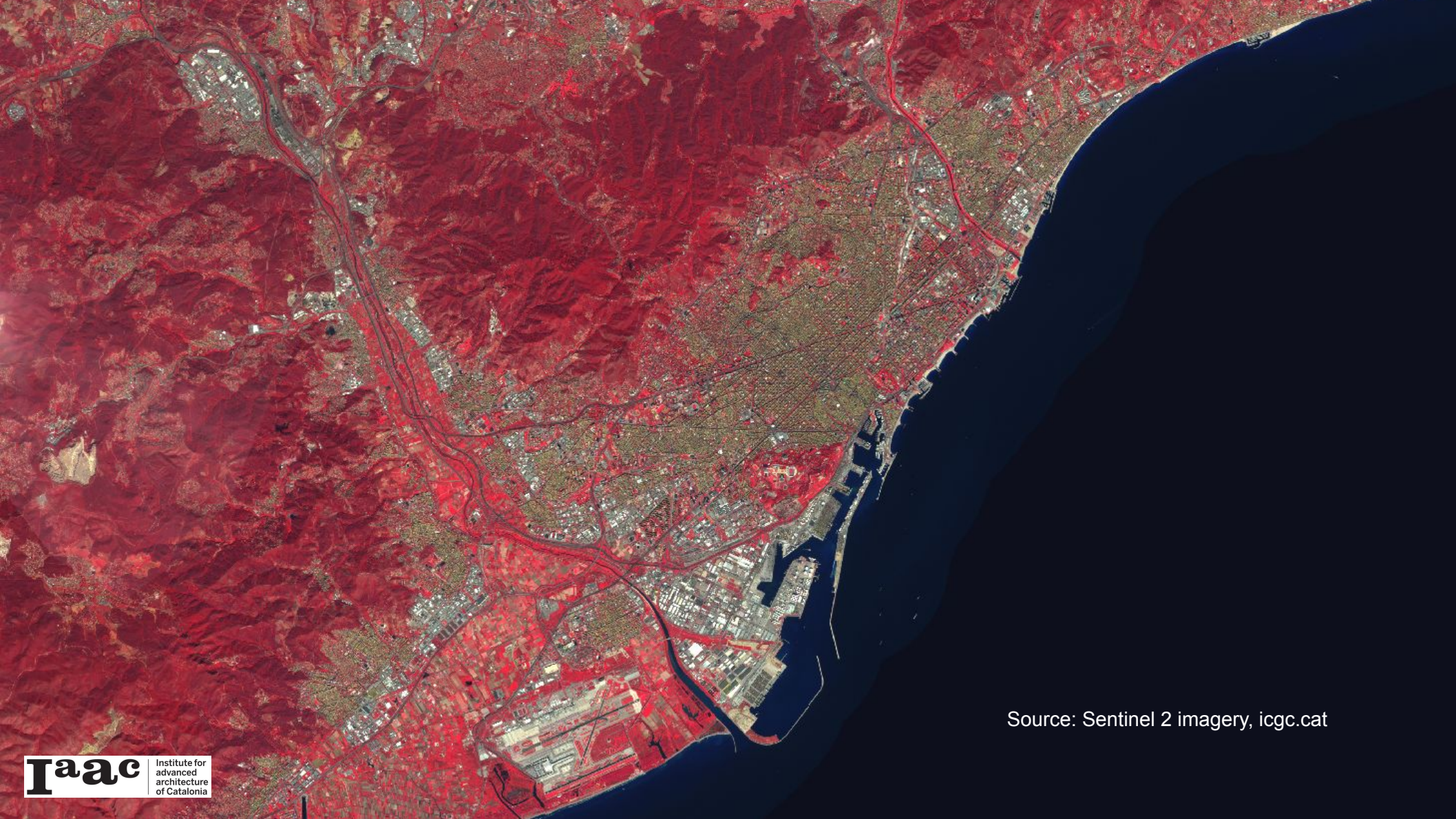
Source:

<https://www.elsevier.es/en-revista-geofisica-internacional-80-articulo-edge-enhancement-in-multispectral-satellite-S0016716914715065>





Github: <https://github.com/diegopajarito/cefire/tree/master/caso3>



Source: Sentinel 2 imagery, icgc.cat

Ortofoto convencional

Mosaic continu de fotografies aèries, d'elevada qualitat i precisió



Ortoimatges Sentinel-2

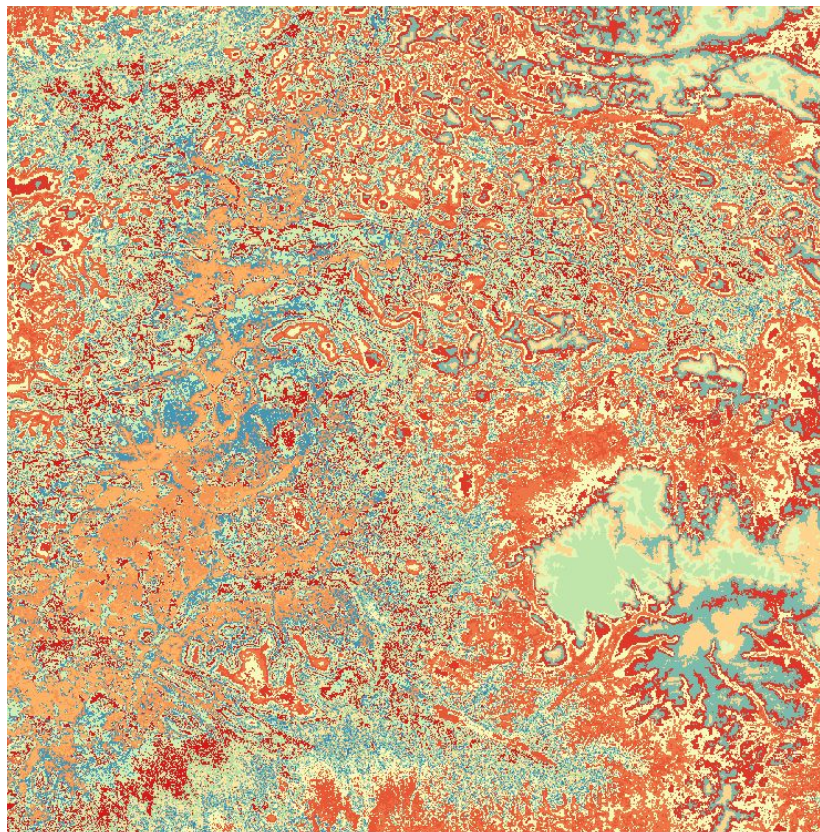
Mosaic continu d'imatges captades pel satèl·lit Sentinel-2



Tutorial: <https://icgc.cat/Descarregues/Imatges-aeries-i-de-satel-lit>

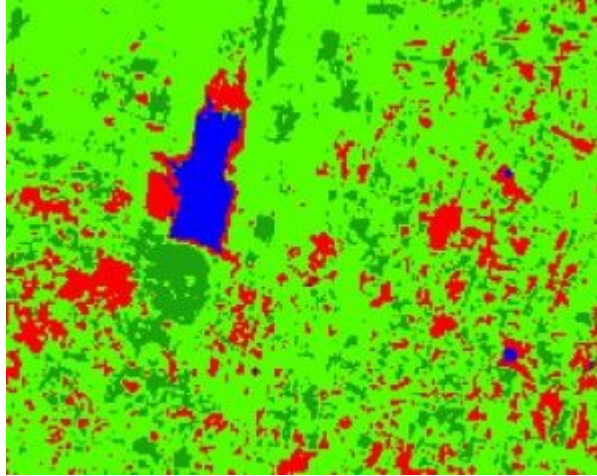
AI

Image classification, a geoinformatics approach



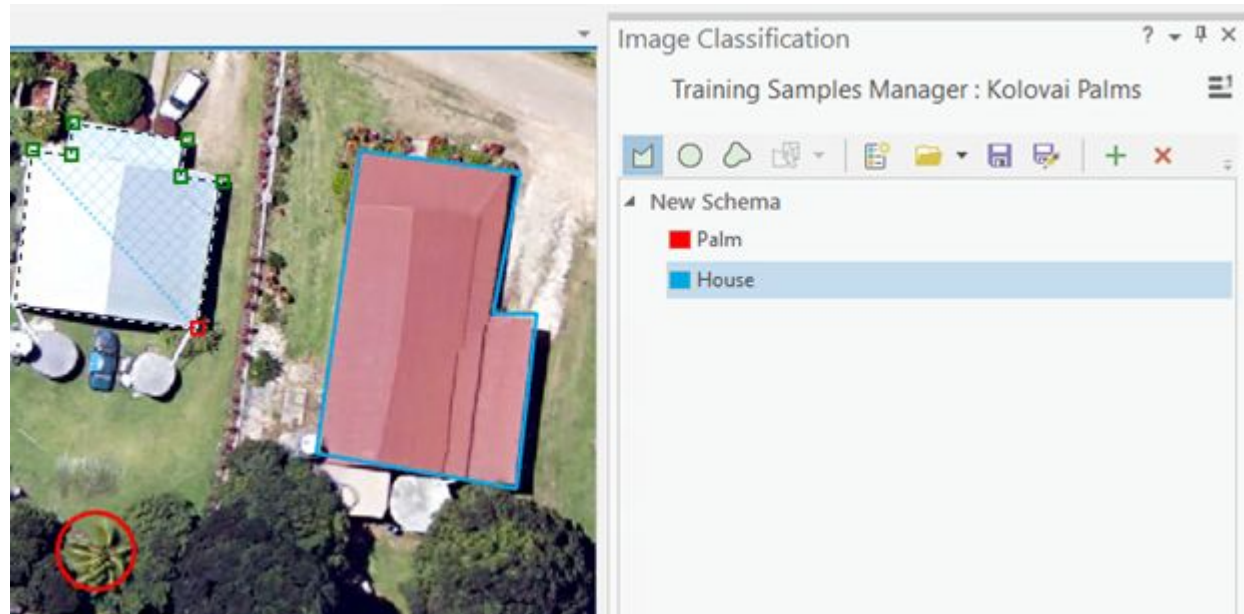
Tutorial:

<https://www.igismap.com/qgis-tutorial-unsupervised-classification-using-kmeansclassification/>



Tutorial:

<https://www.igismap.com/image-classification-in-qgis-supervised-and-unsupervised-classification/>



Post:

<https://medium.com/geoai/esri-microsoft-join-uc-san-diego-teaching-practical-geospatial-data-science-and-deep-learning-3d7e62bd23fb>

Use cases
Objects / Coverages / Categories
Geographical space
Algorithms / Models
Software tools

AI

Our exercise using tensorflow

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