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# Ground Truth and Automated Classification from Copernicus Sentinel-2 Imagery

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Ground-Truth and Sentinel2 imagery classification of *Trees Outside Forest* in an agroforestry landscape in Umbria, Italy.

Location: Alfina plains, Castelgiorgio area, Umbria, Italy. Reference system: EPSG:32632 (WGS84, UTM zone 32 North) Extent: West 740609 – East 750828, South 4726490 – North 4737250

Dataset format: geopackage, a single file **data.gpkg** containing 9 vector layers (in alphabetical order):

1. Areas – Areas of interest, 2 polygons
2. Classification – Automated classification from Sentinel2 imagery, 11781 polygons
3. Hedgerows1 – Ground truth, hedgerows of Area1, 148 lines
4. Hedgerows2 – Ground truth, hedgerows of Area2, 135 lines
5. Sentinel2 – Sentinel2 scenes footprint, one polygon
6. Trees1 – Ground truth, isolated trees of Area1, 55 points
7. Trees2 – Ground truth, isolated trees of Area2, 64 points
8. Woods1 – Ground truth, small forest patches of Area1, 33 polygons
9. Woods2 – Ground truth, small forest patches of Area2, 37 polygons

Accompanying map: **map.qgz**, Qgis 3.6 format. The geopackage dataset is supposed to be stored in the same directory of the map (relative path = ./)

Dataset description and metadata: **meta.pdf**

This dataset is used in the article *Trees Outside Forest* in Italian agroforestry landscapes: detection and mapping using Sentinel-2 imagery, to be submitted to the European Journal of Remote Sensing <https://www.tandfonline.com/toc/tejr20/current>.

Preview

## Ground Truth and Automated Classification from Copernicus Sentinel-2 Imagery.

This dataset is used in the article *Trees Outside Forest* in Italian agroforestry landscapes: detection and mapping using Sentinel-2 imagery

to be submitted to the European Journal of Remote Sensing <https://www.tandfonline.com/toc/tejr20/current>

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Location: **Alfina plains, Castelgiorgio area, Umbria, Italy**

Elevation: about 500 m above mean sea level

Reference system: **EPSG:32632** WGS84. UTM zone 32 North

Files (16.4 MB)

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