

Plant species monitoring using Deep Learning: Three case studies

Outline

- The detection of the invasive species *Cortaderia Selloana* in social media
- The monitoring of *Ziziphus Lotus* in Google-Earth images
- The monitoring of *Juniperus* in Google-Earth images

The detection of the invasive species *Cortaderia Selloana* in social media

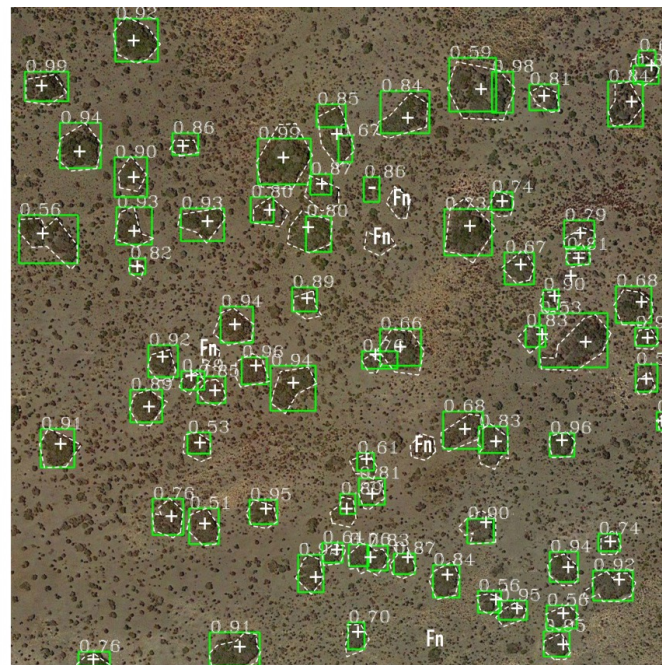
- **Objective:** To know the distribution of the invasive *Cortaderia Selloana* using georeferenced pictures from social media
- **Methodology:** scraping pictures from social media, Flickr. Then analyzing them with a DL detection model.



The monitoring of Ziziphus Lotus in Google-Earth images

Objective: build a tool to monitor the conservation state of the Mediterranean area

Methodology: A deep learning detection model & GE images.



The monitoring of *Juniperus* in Google-Earth images

Objective: build a tool to monitor climate change in high mountains.

Methodology: A semantic segmentation DL model in time series satellite images

(work in progress)



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Thank you!

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