EU Green Week PARTNER EVENT

La giornata green del dottorato | Acqua, resilienza ed oltre

@Distal multicampus 30 Maggio 2024











#WaterWiseEU



On the use of remote sensing vegetation indices for agricultural zoning: does the time matter? Gunay Hasanli

Supervisor: Prof. Gabriele Baroni

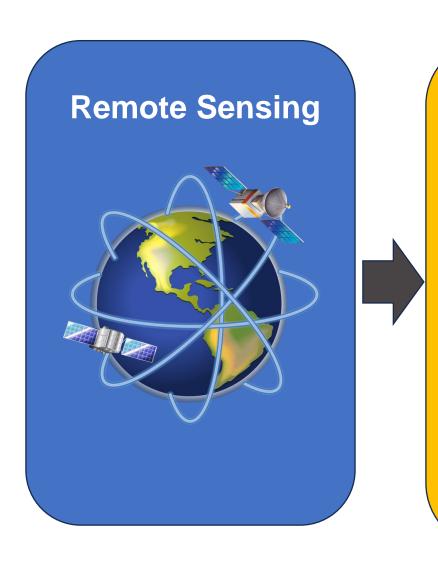
Co-supervisors: Prof.Saida Aliyeva,

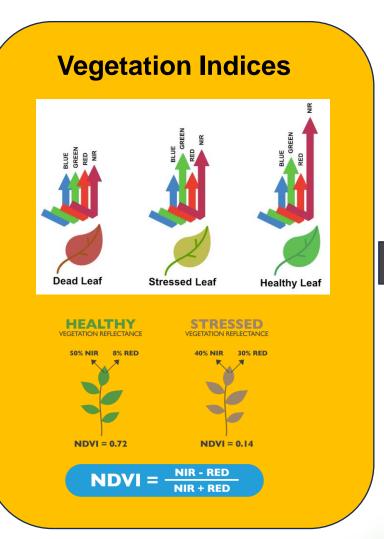
Prof. Elton Mammadov

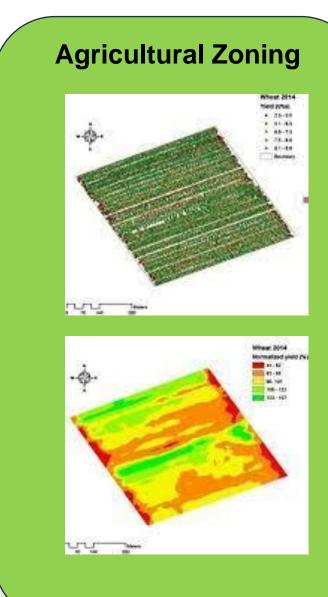


PhD in Agricultural, Environmental, Food Science and Technology Research topic of Agricultural Engineering

Background and Objectives









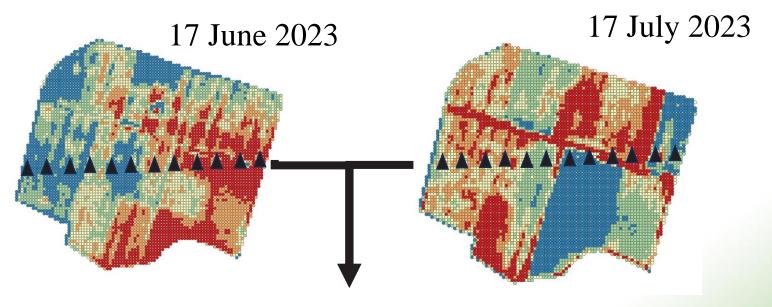
PHD PROGRAMME
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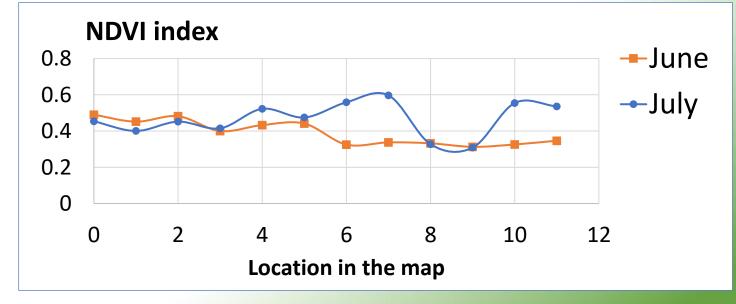
Experimental approach and main results

Bondeno, Italy Nuts orchard, 56 ha



- The spatial variability of the vegetation index (NDVI) changes at different time.
- Zonation should account for that (e.g., agricultural practices)





Expected outcomes (what for?)

- We can observe how specific areas change over time and Agricultural expansion often involves the clearing of cutting, affect to significant changes in land cover
- Vegetation indices help in creating detailed maps for precision agriculture
- Continuous monitoring using remote sensing allows for real-time decision-making, improving crop yield and reducing environmental impact
- Zoning will help in making informed decisions regarding field measurement management and identifying risks such as soil erosion
- Accurate zoning leads to better crop selection and field management, enhancing productivity