Michele Croci

UNIVERSITÀ CATTOLICA del Sacro Cuore

AGRI SYSTEM
Scuola di Dottorato
per il Sistema Agroalimentare

PROFILE
I am a third year PhD student specialized in Remote sensing for agriculture 4.0.

AFFILIATION
[1]Department of Sustainable Crop Production (DI.PRO.VE.S)

[2]Centro Ricerca Analisi geoSpaziale e Telerilevamento (CRAST)
Università Cattolica del Sacro Cuore

LANGUAGES

🇮🇹 Mother language

🇬🇧 B1

IT SKILLS

R ● ● ● ● ◐
Python ● ● ○ ○ ○
Q ● ● ● ● ○
● ● ● ○ ○

HOW TO CONTACT ME
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Reference Contact
Prof. Stefano Amaducci

PROJECT TITLE
Remote sensing for crop monitoring from regional to field scale

Steps of the research
1. Development of a framework for the classification of processing tomatoes in Northern Italy
2. Development of algorithms for the estimation of biophysical parameters (Leaf Area Index, Canopy Chlorophyll Content)
3. Development of algorithms for the phenology monitoring and harvest detection of processing tomatoes
4. Development of an algorithm for the estimation of corn yield using machine learning and remote sensing data
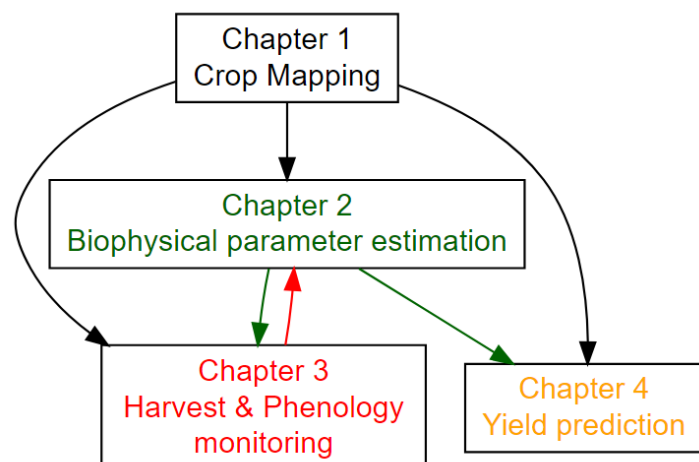
Main Results
Identification and development of a platform for crop mapping, phenological monitoring, estimation of biophysical parameters and yield prediction.

Research Contribution
Development of innovative techniques for enhancing agricultural supply chains.

Flowchart of the research

Collaborations
Roquette Italia S.p.A, O.I. Pomodoro Nord Italia, Consorzio di bonifica di Piacenza, Canale Emiliano Romagnolo (CER), CITIMAP S.C.a.R.L, & OROGEL