Michele Croci

KEY-WORDS:
REMOTE SENSING· MACHINE LEARNING · CROP MONITORING · AGRIFOOD4.0

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)

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LANGUAGES

Mother language

B1

IT SKILLS

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

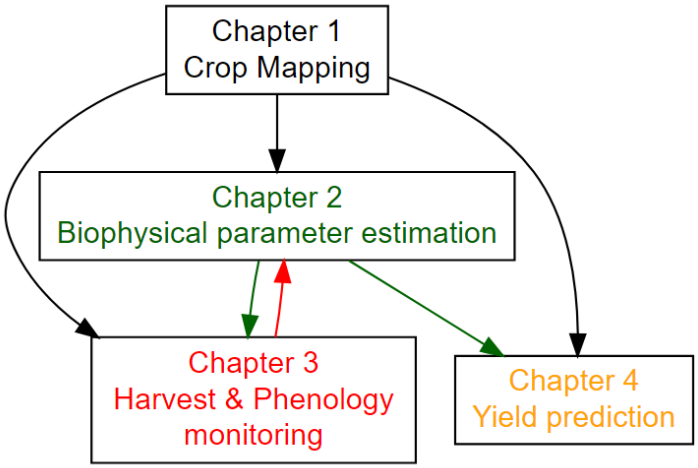
Main Results

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