Università degli Studi di Padova

Dipartimento Territorio
e Sistemi Agro-Forestali

TESAF
Università di Padova
Viale dell'Università 16 - AGRIPOLIS
35020 Legnaro (Padova) Italy

Agricultural, Forestry and Biosystems Engineering

Research Area
Agricultural and forest engineering

Topics

- Conservation tillage techniques (Sartori).
- Precision agriculture and precision forestry (Sartori, Marinello, Cavalli, Grigolato).
- Plants and machineries for treatment and spreading of manure (Guercini, Sartori).
- Technology, organization and management of wood biomass exploitation for energy production in agriculture and forestry (Cavalli, Grigolato, Sartori, Marinello).
- Milking machines and automatic feeding systems (Sartori, Guercini).
- UAVs in agricultural and environmental applications (Sartori, Marinello).
- Technology, organization and management of forest operations in mountainous forests (Cavalli, Grigolato).
- Safety and risk management in the maintenance of green areas (Bortolini).
- Heat treatment and sterilization systems in the agro-industry (Friso).
- Irrigation systems and green infrastructures for sustainable water management (Bortolini, Friso).

People

Dr. Lucia Bortolini (lucia.bortolini@unipd.it)
Prof. Raffaele Cavalli (raffaele.cavalli@unipd.it)
Prof. Dario Friso (dario.friso@unipd.it)
Prof. Stefano Grigolato (stefano.grigolato@unipd.it)
Dr. Stefano Guercini (stefano.guercini@unipd.it)
Dr. Francesco Marinello (francesco.marinello@unipd.it)
Prof. Luigi Sartori (luigi.sartori@unipd.it)

Research projects

- Integrated research project "FOGLIE" – Innovative wood and wood energy supply chain. Rural Development Program 2014-2020, ARTEA - Regione Toscana.
- Development of a novel sensor for infield detection and quantification of grapes, University Research Project, Università degli Studi di Padova.
- AGRICARE - Introducing innovative precision farming techniques in AGRIculture to decrease CARbon Emissions, LIFE.
- GR3 - Grass as a Green Gas resource: energy from landscapes by promoting the use of grass residues as a renewable energy resource, Program Intelligent Energy Europe, EU.
- In situ sustainable management of stormwater runoff by mean of green roofs: evaluation of systems suitable for Venetian Plain, University Research Project, Università degli Studi di Padova.


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