

Presentation of MERIAVINO project:

Multiscale Sensing for Disease Monitoring in Vineyard Production

Mihaela Hnatiuc

Constanta Maritime University

Victoria Artem

Research Station for Viticulture and Oenology Murfatlar-Romania

Links:

<https://cmu-edu.eu/meriavino-en/>

<https://statiuneamurfatlar.ro/meriavino-en/>

<https://www.era-learn.eu/network-information/networks/ict-agri-food/ict-enabled-agri-food-systems-call-2019/multiscale-sensing-for-disease-monitoring-in-vineyard-production>

Abstract

Vine disease is a major risk for viticulture, involving economic loss, yield quality reduction and environmental impact when using chemicals for treatment. MERIAVINO project advocates a multidisciplinary approach, which is based on several scientific fields to address the problem of disease and yield estimation in vineyard.

The proposed multi-scale methodology consists of inter-combining and implementing IoT, remote sensing and big data in order to interconnect the vineyard parcels, as well as to develop a non-invasive, eco-friendly and low-cost technology for vine disease detection/warning.