

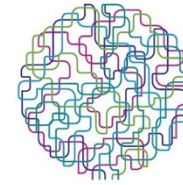


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This presentation is for

- Workshop 1** Big Data
- Workshop 3** Photonics and Micro-and-Nanoelectronics
- Workshop 2** Robotics
- Workshop 4** internet of Things

Description of the Organization



ICTURKEY
ISTANBUL 2016



NEW PROJECTS



H2020
Advance_eLTER

H2020 SKIN

H2020 ANTARES

H2020 AgriDemo-F2F

2020



fractals



Description of the your research interest



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Nano and
microelectronics

Communications and
signal processing

Remote sensing



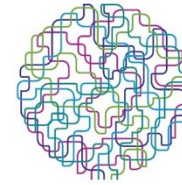
Knowledge discovery -
Big data

Robotics and
mechatronics

Terrestrial and
freshwater ecology

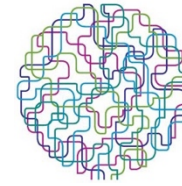
**Innovation and business
development facility**

**Mobile robotic platform for apple harvest planning and
management**

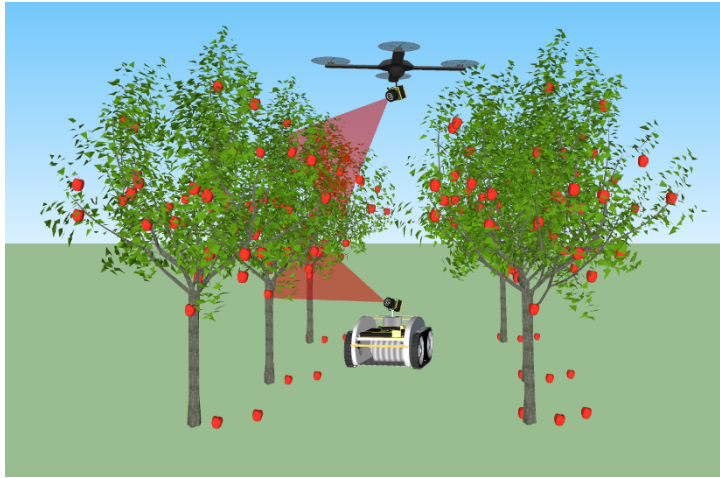


- Objectives:
 - Develop hyperspectral imaging system for apple ripeness detection,
 - Integrate the imaging system with a lightweight multipurpose robotic platform such as Clearpath Robotics Husky UGV and DJI Inspire UAV,
 - Validate and test the developed system in a 400 ha apple orchard in Celarevo, Serbia.
- Expected results
 - An autonomous robotic system with ability to detect fruits and determine the ripeness level.
 - Based on this information, a harvest map is created, where only the fruits ripe enough to harvest are including, where for the rest an estimated harvest time is given.
 - The system can be integrated with an automated harvester.

Concept and equipment



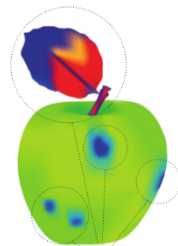
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MONOCHROME IMAGING



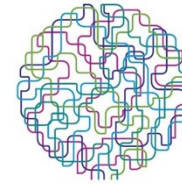
COLOR IMAGING



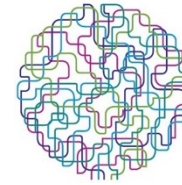
CHEMICAL COLOR IMAGING



Consortium - profile of known partners



No	Partner Name	Type	Country	Role in the Project
01	Delta Agrar	IND		
02				
03				
04				
05				
06				
07				
08				



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