

Invitation



Water stress and biotic stress detection using hyperspectral and thermal imagery

Monday
November 17th 2025
18:00-19:00

Room 201
Drakos Building,
Cyprus University of Technology,
Limassol



Cyprus
University of
Technology

Department of Agricultural
Sciences, Biotechnology
and Food Science

The Department of Agricultural Sciences, Biotechnology and Food Science of the Cyprus University of Technology invites you to the speech:

Water stress and biotic stress detection using hyperspectral and thermal imagery

Speaker:

Dr. Pablo J. Zarco-Tejada
IAS-CSIC, Spain

Short Bio:

Dr. Pablo J. Zarco-Tejada is expert in remote sensing, currently leading the QuantaLab Remote Sensing Laboratory at the Institute for Sustainable Agriculture (IAS), part of the Spanish Council for Scientific Research (CSIC). He is also Honorary Professor at the University of Melbourne, Australia. His research centers on the development and application of advanced remote sensing technologies for detecting biotic and abiotic stress in crops, with a strong focus on hyperspectral and thermal imaging. These technologies are employed through the use of piloted aircraft and aerial vehicles (UAVs or drones), enabling high-resolution monitoring of agricultural and natural ecosystems.

Dr. Zarco-Tejada earned an Agricultural Engineering degree from the University of Córdoba (UCO) in Spain, followed by a Master of Science in Remote Sensing, Image Processing and Applications in Scotland, United Kingdom, and later completed a PhD in Earth and Space Science at York University, Canada. His international academic and research career includes appointments as a faculty member at the University of California, Davis (USA), where he contributed to groundbreaking work in precision agriculture and imaging spectroscopy with funding from NASA. He also served as Director of the IAS-CSIC (2008-2012) and as a Senior Scientist at the Joint Research Centre (JRC) of the European Commission, based in Ispra, Italy (2012-2018), and a full professorship in Remote Sensing and Precision Agriculture at the School of Agriculture and Engineering at the University of Melbourne, Australia (2018-2024).

Recognized for his scientific contributions, Dr. Zarco-Tejada has been consistently named a Highly Cited Researcher since 2019, reflecting the significant impact of his work in the fields of remote sensing and agricultural sciences. He has authored more than 200 peer-reviewed scientific publications in leading international journals.

