

## August 15, 2018 - Wednesday

### Session Chair: Dr. Alireza Pourreza (*Variability, Variable Rate Application, Plant Protection*)

09:00-09:15	Micro irrigation in India: An option for improving water productivity and profitability (Dr. Harishchandra Prasad Singh, Babita Singh)
09:15-09:30	Long-term assessment of variable rate N-fertilization in a Vitis vinifera L. cv. Barbera vineyard (Assoc. Prof. Matteo Gatti, Alessandra Garavani, Cecilia Squeri, Dr. Tommaso Frioni, Dr. Paolo Dosso, Prof. Stefano Poni)
09:30-09:45	Early detection of disease infection in chilli crops using sensors (Mr. Lafta Atshan, Assist. Prof. Simon White)
09:45-10:00	Early Detection of pistachio botryosphaeria panicle blight disease using in-field spectrometry (Assist. Prof. Alirzea Pourreza, Mr. German Zuniga-Ramirez, Dr. Themis Michailides)
10:00-10:15	The effect of gas pressure and application height of a weed flamer on weed control in orchards (Assoc. Prof. Selçuk Arslan, Prof. Dr. Nihat Tursun)
10:15-10:30	Design and implementation of low a cost microcontroller in controlled environment agriculture (Dr. Murat Kacira, Ms. Ana Ms. Montoya, Mr. F. A. Obando)
10:30-11:00	<b>Coffee Break / Poster Presentations</b>
11:00-11:15	<b>General Assembly</b>
11:15-11:30	
11:30-11:45	
11:45-12:00	
12:00-12:15	
12:15-12:30	
12:30-14:00	
<b>Session Chair: Prof. Yiannis Ampatzidis (Decision Support Systems, Phenotyping, Deep Learning)</b>	
14:00-14:15	Supporting the decision to harvest - a case study involving mango (Prof. Kerry Walsh, Dr. Zhenglin Wang, Mr. Anand Koirala, Mr. Nicholas Anderson)
14:15-14:30	An efficient computational tool to discriminate olive cultivars through morphological parameters (Dr. Panagiotis Kalaitzis, Dr. Konstantinos Blazakis, Maria Ms. Kosma, Mr. George Kostelenos, Dr. Luciana Baldoni, Dr. Marina Bufacchi)
14:30-14:45	Comparing deep-learning networks for apple detection to classical 'hard-coded' algorithms (Assist. Prof. Luigi Manfrini, Mr. Kushtrim Bresilla, Ms. Alexandra Boini, Mr. Giulio Perulli, Assist. Prof. Brunella Morandi, Prof. Luca Corelli Grappadelli)
14:45-15:00	Multi-scale high-throughput phenotyping of an apple tree core collection under water stress condition (Dr. Benoit Pallas, Magalie Ms. Delalande, Dr. Aude Coupel-Ledru, Dr. Frédéric Boudon, Dr. Jérôme Ngao, Mr. Sébastien Martinez, Ms. Sylvie Bluy, Dr. Evelyne Costes, Prof. Dr. Jean-Luc Regnard)
15:00-15:15	Image-based nondestructive estimation of plant leaf area using deep learning (Prof. Yasuomi IBARAKI, Mr. Junta Mizuhata)
15:15-15:30	MOVIDA: a decision support tool to help the winegrower mitigate yield loss (Dominique Steiger, Albert Schirring, Mr. Koji Fukuhara)
15:30-16:00	<b>Coffee Break / Poster Presentations</b>



<b>Session Chair: Prof. Keach Murakami (<i>Imaging, Machine Learning, and Robotics</i>)</b>	
16:00-16:15	Evaluating whether multispectral vegetation indices can estimate leaf area index of pecan orchards (Assist. Prof. Yahia Othman, Prof. Rolston St. Hilaire)
16:15-16:30	Estimating chlorophyll content of grafted cucumber seedlings using hyperspectral images (Prof. Dr. Yong Hyeon Kim, Mr. Sunghyuk Jang)
16:30-16:45	Spectral imaging for evaluation of spatial distributions of leaf photosynthetic light use efficiency (Dr. Keach Murakami, Prof. Yasuomi Ibaraki)
16:45-17:00	Proximal detection using robotics for vineyard monitoring: A concept (Dr. Carlos Poblete-Echeverría, Albert Strever, Mr. Berno Greyling, Dr. Melane Vivier)
17:00-17:15	Vision-based system for detecting grapevine yellow diseases using artificial intelligence (Assist. Prof. Yiannis Ampatzidis, Assist. Prof. Albert Cruz, Roberto Pierro, Alberto Materazzi, Alessandra Panattoni, Luigi De Bellis, Andrea Luvisi)
17:15-17:30	RGB imaging for monitoring quality parameters of sweet potato during drying (Dr. Norhashila Hashim)
17:30-17:45	Is machine learning efficient for mango crop yield estimation when used under heterogeneous conditions (Mr. Julien Sarron, Dr. C.A. Bassirou Sané, Dr. Philippe Borianne, Dr. Eric Malézieux, Dr. Paterne Diatta, Dr. Frédéric Normand, Dr. Faye Emile)
17:45-18:00	Cybernetic system controlling plant growth factors (Ching Yi Huang)
18:00-18:30	<b>Business Meeting</b>

