

22nd July (Thursday)

Plenary - Red Room

9:00 – 11:00	Session 5 - Topic 19: Adoption of Precision Agriculture - Chair: tbc.
9:00 – 9:20	N. Lachia , L. Pichon, P. Marcq, B. Tisseyre, J. Taylor: Why are yield sensors seldom used by farmers : a French case study
9:20 – 9:40	S. Lombardo , D. Sarri, C. Perna, A. Pagliai, V. De Pascale, G. Cencini, R. Lisci, M. Rimediotti, M. Vieri: Reliability of new technologies: Local Ecosystem Readiness Level, a composite index
9:40 – 10:00	M. Michels, C.-F. Von Hobe , P.J. Weller Von Ahlefeld, O. Mußhoff: An Extended Technology Acceptance Model for the Adoption of Drones in German Agriculture
10:00 – 10:20	D. Schimmelpfening, J. Lowenberg-DeBoer : Precision Agriculture, Farm Size and Soil Variability
10:20 – 10:40	Y. Valloo , B. Oger, G. Brunel, T. Crestey, C. Leroux, B. Tisseyre: A serious game on yield sampling to sensitize winegrowers to the value of spatial data
10:40 – 11:00	F. Worek , S. Thurner: DigiMilch – Online yield measurement of wilted grass and fodder crops with forage harvesters
11:00 – 11:30	Coffee break
11:30 – 13:00	Session 6 - Topic 11: Site-Specific Nutrient, Lime and Seed Management - Chair: tbc.
11:30 – 11:50	C. Fabbri , M. Mancini, R. Vivoli, S. Truschi, S. Orlandini, M. Napoli: Is really NDVI a valid indicator for nitrogen fertilization management? A case study from Italy
11:50 – 12:10	J. Fulton , R. Colley, S. Shearer, A. Gauci, E. Hawkins: High Definition Fertilizer As-Applied Maps for Pneumatic Applicators
12:10 – 12:30	A.S. Tsibart , A. Postelmans, J. Dillen, A. Elsen, H. Vandendriessche, G. Van De Ven, W. Saeys: Development of soil productivity maps for precision fertilization
12:30 – 12:50	S. Rajmis, I. Karpinski , H. Kehlenbeck: Economic assessment of site-specific pesticide applications
12:50 – 13:10	Conference Closing Plenary (RED room)
13:10 – 14:10	Lunch

Room1 - White Room

9:00 – 11:00	Session 5 - Topic 06: Applications of Unmanned Aerial Systems - Chair: tbc.
9:00 – 9:20	M.-A.B. Bouchard , A.L.H.A. Andriamandroso, C.W. Waterlot, A.S. Siah1, C.G. Guille, B.V. Vandoorne: Evaluating UAV-based vegetation indices to monitor winter wheat crops' nitrogen status
9:20 – 9:40	A. De Castro , J.M. Maja, J.C. Melgar, G. Schnabel, F. López-Granados, J.M. Peña: Optimizing peach management based on hyperspectral and unmanned aerial vehicle (UAV) technology
9:40 – 10:00	M. Frangulea, C. Pantos, V. Giuffrida, J. Valente : Plant phenotyping on-demand: An IoT framework using drones and participatory sensing in greenhouses
10:00 – 10:20	J. Haumont , P. Lootens, S. Cool, J. Van Beek, D. Raymaekers, E.M. Ampe, T. De Cuyper, O. Bes, J. Bodyn, W. Saeys: Leek biomass monitoring throughout the growing season with multispectral UAV imagery
10:20 – 10:40	J.M. Peña , C. Orno-Badía, G. Messina, J. Dorado, J. Recasens: Early post-emergence maps to predict crop yield: An application of UAV technology and digitization
10:40 – 11:00	J.A. Thomasson , T. Wang, X. Wang, T. Isakeit, C. Yang, R.L. Nichols, R. Collett: High-precision fungicide application for cotton disease based on UAV remote sensing
11:00 – 11:30	Coffee break
11:30 – 13:00	Session 6 - Topic 02: Precision Horticulture - Chair: tbc.
11:30 – 11:50	S. Delalieux , L. Tits, Y. Vanbrabant, J. Vandermaesen, B. Somers: The uncharted territory of drone-based cross-season monitoring for precision horticulture
11:50 – 12:10	M. Keller, P. Haberey , D. Hodel, L. Collet, C. Bucher, T. Anken, R. Total: Automated, crop-targeted spot spraying of insecticides in field vegetables
12:10 – 12:30	J. Llorens, A. Escolà, E. Casañas, J.R. Rosell-Polo, J. Arnó, J.A. Martínez-Casasnovas : Estimation of geometric and structural parameters in super-intensive almond orchards
12:30 – 12:50	P. Puranik, W.S. Lee , N. Peres, F. Wu, A. Abd-Elrahman, S. Agehara: Strawberry flower and fruit detection using deep learning for developing yield prediction models
12:50 – 13:10	Conference Closing Plenary (RED room)
13:10 – 14:10	Lunch

Room2 - Green Room

9:00 – 11:00	Session 5 - Topic 05/4: Proximal and Remote Sensing of Soil and Crop - Chair: tbc.
9:00 – 9:20	V. Vona , S. Sarjant, M. Luleva, I.M. Kulmány, M. Vona: Can local soil samples improve the accuracy of MIR and XRF-based spectral prediction models?
9:20 – 9:40	C. Kempenaar , F. Tigchelhoff, J.A. Booij, S. Nysten, C.G. Kocks: Validation of precision agriculture soil mapping services under practical conditions
9:40 – 10:00	O.E. Apolo-Apolo , M. Pérez-Ruiz, P. Pedro Castro-Valdecantos, G. Egea: Evaluation of a portable sensor suite for real time CWSI monitoring in wheat
10:00 – 10:20	M. Dyrmann , S.K. Skovsen, P.H. Christiansen: Camera-based estimation of sugar beet locations and weed cover
10:20 – 10:40	J. Heras, R. Marani , A. Milella: Semi-supervised semantic segmentation for grape bunch identification in natural images
10:40 – 11:00	L. Comba , A. Biglia, D. Riccauda Aimonino, P. Barge, C. Tortia, P. Gay: Semantic interpretation of multispectral maps for precision agriculture: a machine learning approach
11:00 – 11:30	Coffee break
11:30 – 13:00	Session 6 - Topic 5/5: Proximal and Remote Sensing of Soil and Crop - Chair: tbc.
11:30 – 11:50	A. Kayad , F.A. Rodrigues Jr, M. Sozzi, S. Maclas, F. Marinello: Maize LAI assessment from aerial hyperspectral data through PROSAIL and machine learning techniques
11:50 – 12:10	R. Dong , Y. Miao, X. Wang: In-season prediction of maize lodging characteristic indicators using an active crop sensor
12:10 – 12:30	M. Aranguren , A. Castellón, A. Uribeetxebarria, A. Aizpurua: Achieving bread-making strong flour quality in winter wheat using chlorophyll meter readings
12:30 – 12:50	M. Veróné Wojtaszek , V. Szabó, J. Kausar, A. Kocsis, L. Lippmann: Mapping soil moisture by the OPTRAM model for decision-making in precision agriculture
12:50 – 13:10	Conference Closing Plenary (RED room)
13:10 – 14:10	Lunch