



SOILdarity – Summer School

Lisbon, 19-23 September 2022

Day	Time	Activity	Speaker(s)
C1, 3rd floor amphitheatre			
19	8:45 – 9:00	Well come message and participants introduction	Prof Mouazen (UGENT) and Cruz (FCUL)
	9:00 – 10:30	Lecture on Proximal sensing <ul style="list-style-type: none"> Philosophy of precision agriculture Proximal soil sensing 	Prof. Mouazen (UGENT) & Prof. Litaor (MIGAL)
	10:30 – 10:45	Coffee break	
	10:45 – 13:00	... Continuation	
	13:00 – 14:00	Lunch	
	14:00 – 15:00	... Continuation	
	15:00 – 16:00	Lecture on remote sensing (RS) <ul style="list-style-type: none"> Basics of RS Passive and Active RS RS platforms in agriculture 	Prof. Maes (UGENT)
	16:00 – 16:45	Coffee break	
	16:45 – 18:30	... Continuation	
	C1, 3rd floor amphitheatre		
20	9:00 – 10:30	Lecture topics <ul style="list-style-type: none"> Theoretical background and types of multi-sensor data fusion techniques. The lecture will also include chemometrics and machine learning tools. Case study on the use of multi-sensor data fusion in precision agriculture. 	Prof. Moshou (Greece)
	10:30 – 10:45	Coffee break	
	10:45 – 12:00	... Continuation	
	12:00 – 13:00	Lunch	
	13:00 – 14:30	Lecture on Geostatistics <ul style="list-style-type: none"> Geostatistical theory Kriging & Variogram modelling Clustering and management zone delineation: K-means clustering 	Prof. Castrignanò (Italy)
	14:30 – 14:45	Coffee break	
	14:45 – 16:00	... Continuation	
	16:00 – 16:45	Coffee break	
	16:45 – 18:00	Lecture on variable rate technologies <ul style="list-style-type: none"> Variable rate machinery (tillage, seeding, fertilization, and spraying of pesticides) 	Prof. Mouazen (UGENT)
	C1, 3rd floor amphitheatre		
21	9:00 – 10:30	Lecture & workshop on socio-economic & environmental benefits of precision agriculture Lectures <ul style="list-style-type: none"> Features of a good PA business model What PA claims (enumerate and position on the Canvas) 	Prof. Lauwers (UGENT) & Prof. Mouazen (UGENT)



		<ul style="list-style-type: none"> • Why these claims do not (yet) drive for PA adoption in practice? <p>Workshop</p> <ul style="list-style-type: none"> • Actor gaming • Delphi methods • Priority setting with limited budget • Barriers and solutions to enhance adoption • Special case to conceive agroecological PA developments 	
	10:30 – 10:45	Coffee break	
	10:45 – 12:30	... Continuation	
	12:30 – 13:30	Lunch	
	13:30 – 15:30	... Continuation	
	15:30 – 15:45	Coffee break	
	15:45 – 17:30	... Continuation	
Field trip (Alvalade do Sado) meeting point:			
22	8:00 – 20:00	Field demonstration & practical sessions <ul style="list-style-type: none"> • Sensing technologies • Control technologies 	Dr. Munnaf (UGENT)
C2, 2nd floor amphitheatre 2.2.14			
23	9:00 – 10:30	Practical sessions <ul style="list-style-type: none"> • Demonstration of spectra processing, data fusion and modelling technologies • Demonstration and practical session on mapping 	Dr. Munnaf (UGENT)
	10:30 – 10:45	Coffee break	
	10:45 – 12:30	... Continuation	
	12:30 – 13:30	Lunch	
	13:30 – 15:30	... Continuation	
	15:30 – 15:45	Coffee break	
	15:30 – 17:30	... Continuation	
	17:30 – 18:45	End of works	