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INGEGNERIA



Sensors in Focus:
From Fundamentals to Applications

20-23 September 2025

Giardini Naxos, Sicily

Local Organising Committee:



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AISS Program

Registration (10:00-12:30)			
Welcome and Introduction (14:15-14:30)			
Lesson	Teacher	Title	Day
Session 1: Sensor Fundamentals			20/9
L 1 (14:30-16:15)	Francesco Baldini	Fundamentals on optical biosensing	
L 2 (16:45-18:30)	Luca Francioso	Overview on Sensors: fundamentals and applications	
Welcome Cocktail (20:00)			
Session 2: Material and Measurements for Sensors			21/9
L 3 (8:00-10:00)	Dario Compagnone	Electrochemical (bio)sensors: from classical to disposable devices and demo + Demo (A. Scroccarello)	
Coffee Break (10:00-10:30)			
L 4 (10:30-12:15)	Nicola Donato	Electronic Measurements for Resonant Sensors	
Lunch (13:00-14:30)			
L 5 (14:30-16:15)	Vittorio Ferrari	Making Sense of Sensors - from Physical Quantities to Signals, Data and Information	
Coffee Break (16:15-16:45)			
L 6 (16:45-18:30)	Nicola Pinna	Novel Materials for chemical sensors	
Session 3: Chemical and Biosensors			22/9
L 7 (8:00-9:30)	Giovanni Neri	Gas sensors: an historical overview + Demo (S. Ben Haj Fraj)	
Coffee Break (9:30-10:00)			
L 8 (10:00-11:30)	Sabrina Conoci	Genetic Point of Care Devices: Progress and Perspectives	
L9 (11:30-13:00)	Giuseppe Spoto	DNA-based plasmonic biosensors for cancer biomarkers	
Lunch (13:00-14:30)			
Session 4: Technologies for Sensors			
L 10 (14:30-16:00)	Alvise Bagolini	Microfabrication technologies at a glance: applications in integrated biodevices	
Coffee Break (16:00-16:30)			
L 11 (16:30-18:15)	Anna Grazia Mignani	Pocket-sized optical spectroscopy: working principle, agri-food applications + Demo (L. Ciaccheri)	
Gala Dinner (20:30)			
Session 5: Sensors Applications			23/9
L 12 (8:00-9:45)	Donatella Puglisi	AI applied to the sensor field	
Coffee Break (9:45-10:15)			
L 13 (10:15-12:15)	Corrado Di Natale	Instruments and Methods for Human Volatilome Analysis	
Closing Session (12:15-12:30)			