



FoodCAS @ISCAS20

Thursday, May 22, 2020

General Program

Time	Activity	
15h00	Opening	
15h05	Keynote	Dr. Barbara Mazzolai <i>Istituto Italiano di Tecnologia, Italy</i>
15h35	Sessions Opening	Victor Grimblatt <i>Agribusiness and Technology - an Overview</i>
15h45	Lecture Session 1	Agriculture & Farming
16h15	Lecture Session 2	Sensors for AgriFood
16h55	Breakout	
17h10	Keynote	Prof. Yann Deval <i>University of Bordeaux, France</i>
17h40	Lecture Session 3	Trees & Crops
18h10	Lecture Session 4	Food Quality and Monitoring
18:50	Poster Session	
19h20	Closing Remarks	Discussion about next FoodCAS and cheers.
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19:30		



Detailed Session Program

Lecture Session 1: Agriculture & Farming

15:45	2661	Julio Torres-Tello, Suganthi Venkatachalam, Lyman Moreno Seok-Bum Ko	Ensemble Learning for Improving Generalization in Aeroponics Yield Prediction
15:55	2678	Matthew Agnew, Niamh Creedon, Ivan O' Connell	Low-Cost, Rapid Prototyping of a Microfluidic Biosensor Cartridge for On-Farm Diagnostics
16:05	2693	Sergio Arriola-Valverde, Karolina Villagra-Mendoza, Maikel Méndez-Morales, Milton Solórzano-Quintana, Natalia Gomez-Calderón, Renato Rimolo-Donadio	Analysis of Crop Dynamics Through Close-Range UAS Photogrammetry

Lecture Session 2: Sensors for AgriFood

16:15	2500	Temitope Odedeyi, Clive Poole, Xinyue Liu, Amany Kassem, Gideon Oyebode, Rabbi Ismail, Izzat Darwazeh	A Low-Cost Device for Estimating the Starch Content of Cassava Tubers Based on RF Return Loss Measurement
16:25	2682	Pietro Ibba, Marco Crepaldi, Alessandr Barcellona, Giorgio Zini, Mattia Petrelli, Biresaw Demelash Abera, Bajramshahe Shkodra, Giuseppe Cantarella, Luisa Petti, Paolo Lugli	FruitMeter: an AD5933-Based Portable Impedance Analyzer for Fruit Quality Characterization
16:35	2683	Aidan Murphy, Niamh Creedon, Alan O'Riordan, Ivan O'Connell	Data Acquisition for Ultramicroband Bovine Respiratory Disease Electrochemical Immunosensors
16:45	2687	Félix Meléndez, Patricia Arroyo, José Luis Herrero, Juan Alvaro Fernández, Pablo Carmona, Sergio Rodríguez, Jesús Lozano	Fast Detection of TCA in Cork Stoppers by Means of Electronic Noses

Lecture Session 3: Trees & Crops

17:40	2679	Umberto Garlando, Lee Bar-On, Paolo Motto Ros, Alessandro Sanginario, Sebastian Peradotto, Yosi Shacham-Diamand, Adi Avni, Maurizio Martina, Danilo Demarchi	Towards Optimal Green Plants Irrigation: Watering and Body Electrical Impedance
17:50	2688	Ruben Deleón, Gabriel Vicente, Roberto Zoppolo, Alfredo Arnaud, Matias Miguez	Lidar based, Tree Row Volume Estimation for phytosanitary Products Reduction in Fruit Trees Orchards
18:00	2698	Dayananda Desagani, Aakash Jog, Adi Avni, Yosi Shacham-Diamand	In-Vivo Dehydration Sensing in Transgenic Tobacco Plants Using an Integrated Electrochemical Chip

Lecture Session 4: Food Quality and Monitoring

18:10	2680	Luca Urbinati, Marco Ricci, Giovanna Turvani, Jorge A. Tobon Vasquez, Francesca Vipiana, Mario R. Casu	A Machine-Learning Based Microwave Sensing Approach to Food Contaminant Detection
18:20	2684	Massimo Conti	Food Traceability in Fruit and vegetables Supply Chain
18:30	2691	Biresaw Abera, Bajramshahe Shkodra, Ali Douaki, Pietro Ibba, Giuseppe Cantarella, Luisa Petti, Paolo Lugli	Single-Walled Carbon Nanotube-Coated Flexible and Soft Screen-Printed Electrochemical Biosensor for Ochratoxin a Detection
18:40	2699	Bajramshahe Shkodra, Ali Duaki, Biresaw Demelash Abera, Pietro Ibba, Enrico Avancini, Giuseppe Cantarella, Luisa Petti, Paolo Lugli	A PEDOT:PSS/SWCNT-Coated Screen Printed Immunosensor for Histamine Detection in Food Samples



FoodCAS POSTER SESSION

18:50	2648	Alper Kanak, Cagri Terzibas, Salih Ergun	SUTLAC: a Conceptual Study on VR-Enabled Semantic Dessert Design Utility for Treating Diabetes MeLlitus with Active Participation
18:55	2658	Mariana Gonzalez, Eliana Budelli, Nicolás Pérez, Patricia Lema	Image Processing Applied to Eye Segmentation in Cheese Maturation
19:00	2686	Francisco Portalo-Calero, Patricia Arroyo, Félix Melendez, José Ignacio Suárez, Jesús Lozano	Electronic Nose Comparison of the Edible Amanita Ponderosa with the Deadly Amanita verna
19:05	2694	Leonardo Franceschelli, Davide Brunelli, Marco Crescentini, Luigi Ragni, Annachiara Berardinelli, Marco Tartagni	Soil Moisture Assessment with a Waveguide Spectrometer
19:10	2700	Silvia Loddo, Matteo Soccol, Antonio Perra, Mariano Ucchesu, Mauro Lo Cascio, Costantino Sirca, Paolo Meloni, Massimo Barbaro	Biosensing IoT Platform for Water Management in Vineyards
19:15	2702	Wing Hei Chan, Philip Heng-Wai Leong, Hayden Kwok-Hay	Vision Guided Crop Detection in Field Robots Using FPGA-Based Reconfigurable Computers