



Università degli Studi di Cagliari
PhD School in Information Engineering
PhD Program in Electronic and Computer Engineering (DRIEI)

2022 DRIEI PH.D. DAY

15th July 2022

Welcome session at 08:50

Chair: Prof. Alessandro Giua, DRIEI Director

Track A: First year Ph.D. students, XXXVII ciclo (2021-2025), Building M, Room B0

Microsoft Teams channel: 2022 DRIEI PH.D. DAY -> Track A (First year Ph.D. students)

Session A1	<i>Co-Chairs: P.Meloni; M.Porru</i>
9:00-9:15	Giuseppe Bossi: Development of a Characterization Tool for Innovative Batteries for Aerospace Applications. ING-IND/32 (Convertitori, macchine e azionamenti elettrici)
9:15-9:30	Mattia Concas: Flexible sensors for wearable applications. ING-INF/01 (Elettronica).
9:30-9:45	Hatami Davood: OCMFET-Based Genetic and pH sensors. ING-INF/01 (Elettronica).
9:45-10:00	Andrea Pitzus: Advanced signal processing and machine learning tools in cardiac and vagus nerve electrophysiology. ING-INF/01 (Elettronica).
10:00-10:15	Break
Session A2	<i>Co-Chairs: Ambra Demontis; M. Franceschelli</i>
10:15-10:30	Sara Concas: Multi-modal based deepfake detection (*). ING-INF/05 (Sistemi di Elaborazione delle Informazioni).
10:30-10:45	Chenhao Cui: Cooperative Hoisting with Multiple Crawler Cranes. ING-INF/04 (Automatica).
10:45-11:00	Simone Maurizio La Cava: 3D Face reconstruction for forensic applications. ING-INF/05 (Sistemi di Elaborazione delle Informazioni).
11:00-11:15	Alessandro Sanna: Hide and Seek: Threat Intelligence for Digital Forensics (*). ING-INF/05 (Sistemi di Elaborazione delle Informazioni).
11:15-11:30	Break
Session A3	<i>Co-Chairs: P. Castello V. Pilloni</i>
11:30-11:45	Gulnaziye Bingol: QoE Estimation of WebRTC-based Audiovisual Conversations from Facial Expressions. ING-INF/03 (Telecomunicazioni).
11:45-12:00	Claudia Carballo Gonzales: Deep Reinforcement Learning for Dynamic Radio Access Selection over Future Wireless Networks. ING-INF/03 (Telecomunicazioni).
12:00-12:15	Giacomo Gallus: Latency Characterization of a Wide Area Monitoring Protection and Control Application in the Italian Transmission System. ING-INF/07 (Misure Elettriche ed Elettroniche)
12:15-12:30	Luigi Serreli: Implementation of a prebunking system to fight fake news. ING-INF/03 (Telecomunicazioni).

(*) Video-presentation



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Track B: Second year Ph.D. students, XXXVI ciclo (2020-2024), Building M, Room B1

Microsoft Teams channel: 2022 DRIEI PH.D. DAY -> Track B (Second year Ph.D. students)

Session B1	<i>Co-Chairs:</i> A. Fanti, V. Pilloni
9:00-9:15	Ernesto Fontes Pupo: Dynamic Access Technique Selection for Multicast Multimedia Services over 5G/6G Networks. ING-INF/03 (Telecomunicazioni).
9:15-9:30	Claudia Macciò: Design and preliminary prototyping of a sensor for permittivity measurements. ING-INF/02 (Campi elettromagnetici).
9:30-9:45	Elena Marongiu: Blass Matrix Design Using PCB Technology for a Multibeam Antenna for 5G/6G Applications (*). ING-INF/02 (Campi elettromagnetici).
9:45-10:00	Lucia Pintor: Analysis of Wi-Fi-Probe Requests Towards Information Element Fingerprinting (*). ING-INF/03 (Telecomunicazioni).
10:00-10:15	Break
Session B2	<i>Co-Chairs:</i> P. Meloni, A. Porru
10:15-10:30	Riccardo Collu: Stimulation shape affects neurostimulation. ING-INF/01 (Elettronica).
10:30-10:45	Antonella Mascia: Ultra-conformable electronic devices for on-body measurements: towards an all-organic integrated approach. ING-INF/01 (Elettronica).
10:45-11:00	Francesco Ratto: Multithread Accelerators on FPGAs: a Dataflow-based Approach (*). ING-INF/01 (Elettronica).
11:00-11:15	
11:15-11:30	Break
Session B3	<i>Co-Chairs:</i> A. Demontis, M. Franceschelli
11:30-11:45	Tenglong Kang: Fault Diagnosis of Discrete-Event Systems under external attacks. ING-INF/04 (Automatica).
11:45-12:00	Tianyu Liu: State estimation in 1-place-unbounded Petri nets. ING-INF/04 (Automatica).
12:00-12:15	Kun Peng: Current-state opacity enforcement by using Petri nets. ING-INF/04 (Automatica).
12:15-12:30	Wenjie Zhao: Distributed algorithms for self-organizing resilient network topologies. ING-INF/04 (Automatica).

(*) Video-presentation