COLLOQUIA DOCTORALIA 2021

PhD in Information Technology

OCTOBER 22ND 2021
CONFERENCE ROOM “E. GATTI”

COMPUTER SCIENCE AND ENGINEERING
ELECTRONICS
SYSTEMS AND CONTROL TELECOMMUNICATIONS
11.00  Barbara Pernici – Welcome Speech and Overview of the IT PhD Program

11.45  Third Year PhD Candidates Presentations

1. Electronics
   Fabio Severini – Single-Photon Avalanche Diode Arrays for Quantum Applications
   Fabio Signorelli – Single-Photon Avalanche Diodes in InGaAs/InP and Micro crystal Heterostructures

2. Systems and Control
   Alex Gimondi – Vehicle Dynamics Control for Independent-all-wheel-drive Full Electric Vehicles

3. Telecommunications
   Ligia Maria Moreira Zorello – Optimization Techniques for Virtual Baseband Function Placement for 5G Radio Access in Metro-area Networks
   Francesco Asaro – Optimizing Insurance’s Claims Processing with SAR Data During Flood Events
   Luca Comanducci – Intelligent networked Music PERforMANce ExperienCes (IMPERMANENCE)
   Andrea Madaschi – Fiber Optic Sensors for System Monitoring

4. Computer Science and Engineering
   Davide Conficconi – On the Role of Reconfigurable Systems in Domain Specific Computing
   Ava Vali – Hyperspectral Image Analysis and Advanced Feature Engineering for Optimized Classification and Acquisition
   Simone Disabato – Deep and Wide Tiny Machine Learning
   Luca Frittoli – Change and Anomaly Detection in Datastreams and Non-matrix Data
   Michele Chiari – Temporal Logic and Model Checking for Operator Precedence Languages: Theoretical and Practical Applications
   Simone Mentasti – Embedded AI and Sensor Fusion for Autonomous Vehicles
   Davide Azzalini – Detecting Anomalies in the Behaviors of Autonomous Robots
12.40 **Chorafas Awards Ceremony**  
*Anna Bernasconi* – Model, Integrate, Search... Repeat: a Sound Approach to Building Integrated Repositories of Genomic Data  
*Francesco Zanetto* – Low-noise Mixed-signal Electronics for Closed-loop Control of Complex Photonic Circuits

13.00 **Break**

14.00 **Discussion with Members of the Advisory Board**  
(Chair: Prof. Stefano Tubaro, Chair of the Department of Electronics, Information and Bioengineering)

15.30 **“Florian Daniel” Award Ceremony**  
*Barbara Pernici* and *Maristella Matera*, Politecnico di Milano – Introduction  
*Stefano Ceri*, Politecnico di Milano – Some Thoughts on Florian  
*Marcos Baez*, Université Claude Bernard Lyon 1 – On Doing Research, and Enjoying It: Lessons Learned from an “Extraordinary” Professor  
*Paolo Cremonesi*, Politecnico di Milano – Presentation of the Award Winner  
*Maurizio Ferrari Dacrema* – An Assessment of Reproducibility and Methodological Issues in Neural Recommender Systems Research

17.00 **Closing Remarks**
Location: Conference Room “E. Gatti”
Dipartimento di Elettronica, Informazione e Bioingegneria

Politecnico di Milano
Via Ponzio, 34/5
20133 Milano

For more information:

Mauro Bandini
Phone: +39 02 2399 3407
E-mail: mauro.bandini@polimi.it

How to reach us:
https://www.deib.polimi.it/eng/how-to-reach-us