



POLITECNICO  
MILANO 1863

DIPARTIMENTO DI ELETTRONICA  
INFORMAZIONE E BIOINGEGNERIA

IT PhD

# COLLOQUIA DOCTORALIA 2021

PhD in Information Technology

OCTOBER 22<sup>ND</sup> 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 ExperiNCEs (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

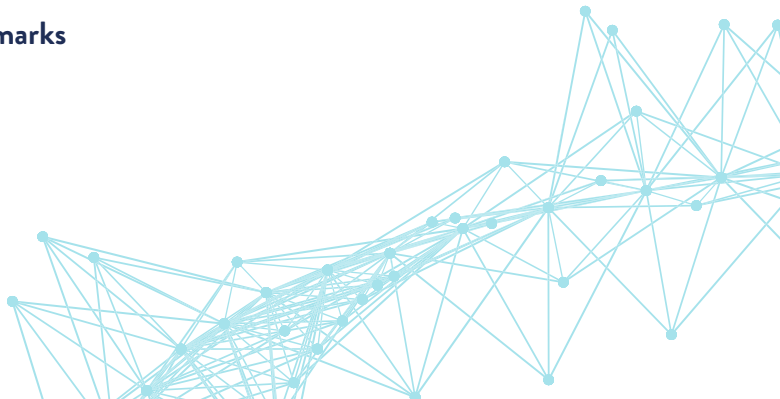
[Stefano Ceri, Politecnico di Milano](#) – Some Thoughts on Florian

[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

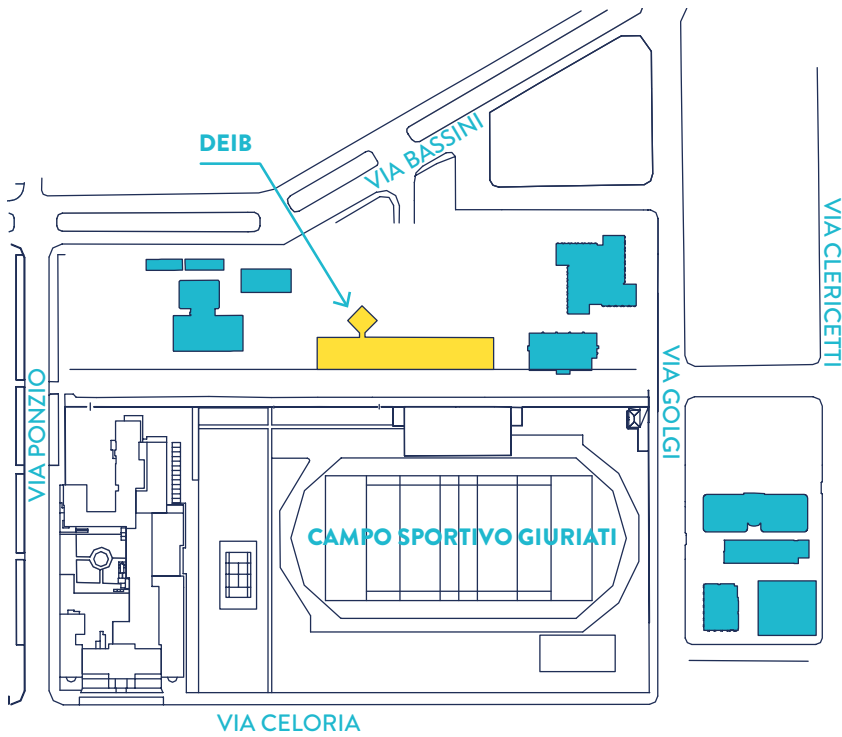
[Maurizio Ferrari Dacrema](#) – An Assessment of Reproducibility and Methodological Issues in Neural Recommender Systems Research

## 17.00 Closing Remarks



Location: Conference Room “E. Gatti”  
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