



## **Miniworkshop on Consistency problems in distributed and concurrent systems**

13 Febbraio 2018

Aula Seminari –09.30-12.30

### **Program**

Francesco Parisi Presicce - **Presentation of the Ateneo Project on Consistency problems** 09.30-09.50

Remo Pareschi (University of Molise) - **Smart Contracts between Legal Tradition and Technological Innovation** 09.50-10.30

*Abstract: The concept of smart contract aims at automating traditional legal contracts via the blockchain technology, In this talk we provide a survey of the design choices and of the challenges that one needs to face in order to carry out this program. In particular, we shall focus on two extremes in the spectrum of available choices, namely the Turing-complete smart contracts of platforms such as Ethereum and the smart legal contracts of the Accord consortium powered through the HyperLedger platform of the Linux Foundation.*

**Break** 10.30-10.45

Daniele Venturi - **Bitcoin and Beyond - A Tutorial** 10.45-11.30

*Abstract: The talk will review the main design principles of the cryptocurrency "Bitcoin", discussing its impact, security, and limitations. Alternative cryptocurrencies inspired by Bitcoin and further uses of the blockchain technology will be surveyed.*

Anna Labella - **Logical aspects of communication among agents** 11.30-12.00

*Abstract: The talk will propose a logic stemming from concurrency and able to speak about cooperative games both in a deterministic and in non-deterministic context.*

**Discussion and conclusions** 12.00-12.30