

Università degli Studi di Trento

CryptoLabTN

Convegno Nazionale di Crittografia BunnyTN7

16 November 2016

Prof Massimiliano Sala

CRYPTOLABTN: PEOPLE

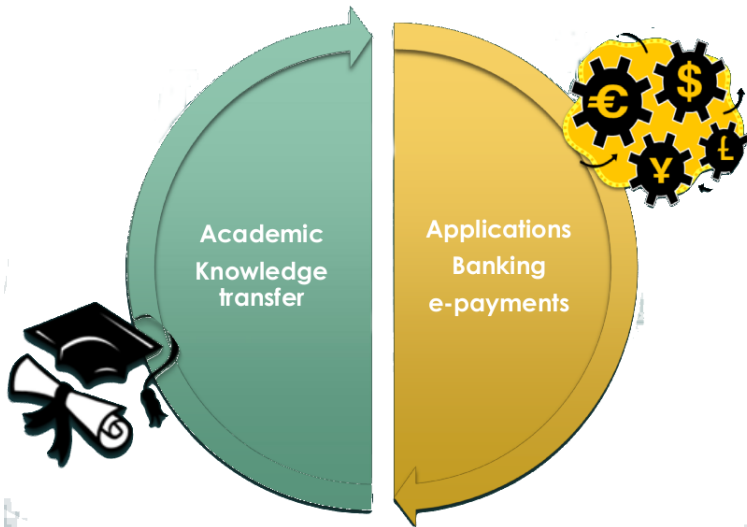
Laboratorio di Matematica Industriale e Crittografia

Established in 2010 with the Department of Mathematics,
University of Trento.

PEOPLE

- ◇ Director: Prof. **Massimiliano Sala**
- ◇ Senior Research Fellow: *Giancarlo Rinaldo*
- ◇ 4 Research Fellows: *Riccardo Aragona, Marco Calderini, Michela Ceria, Federico Pintore*
- ◇ 8 PhD students: *Matteo Bonini, Roberto Civino, Riccardo Longo, Carla Mascia, Alessio Meneghetti, Augustine Musukwa, Giordano Santilli, Daniele Taufer*
- ◇ 25 Master's students
- ◇ Administrative staff: *Francesca Stanca, Chiara Toldo*

CRYPTOLABTN: ACTIVITIES



CRYPTOLABTN: PROJECTS AND THEMES

- *Cryptography for online banking and mobile banking*
- **Protection of biometric data**
- *Cryptography for inter-bank communication*
- **Bitcoin, blockchain and cryptocurrencies**

BITCOIN, BLOCKCHAIN AND THEIR NEW FRONTIERS IN MILAN

21-22 NOVEMBER 2016

A course oriented to a wide audience of professionals, operating both in private companies and in the public sector, in particular in ICT, not only with an IT or engineering background.

MAIN TOPICS

- **basic principles** of Bitcoin and blockchain
- Bitcoin **transactions**, **e-Wallets** and **mining**
- **main applications of blockchain**, such as digital notary, smart contracts, e-voting and distributed cloud services.

BoAB: BITCOIN AND OTHER APPLICATIONS OF BLOCKCHAIN

An **online course** which will introduce you to Bitcoin and blockchain.

BoAB gives the students the tools which are **highly requested** by the numerous companies active in the sector.

CRYPTOLABTN FOR MASTER STUDENTS

CURRICULUM CODING THEORY AND CRYPTOGRAPHY

We have developed a “*Curriculum*” for the Master Degree in Mathematics, focused on Coding Theory and Cryptography.

It is divided into two paths:

- ◇ **Stage-oriented:**
for students aiming to work in companies or banks.
- ◇ **Research-oriented:**
for students aiming to take a PhD and working at University.

ADVISORY BOARD

- *Strategic partnership*
- *Internships*
- *Scholarships* for outstanding and motivated students

SOME OF THE COMPANIES

- **AliasLab**
- **Argentea**
- **Confinet**
- **ID Quantique**
- **IKS**
- **TAS**
- **Telsy**
- **UBIS-UniCredit**

Thank you for your attention!