



**cini**

# Cyber Security National Lab

- Structuring and orchestrating together Italian academic excellence in Cyber-Security
- (e.g., cryptography, dependability, information security, hardware security, malware analysis, CIP, risk management, intelligence etc.)
- Take advantage of presence of sites with specific research footprints and of spreading through Italy
- Fine mapping of research and education in Italy

## Motivation

- Cyber is a National (not regional) security issue
- Implementing nationwide actions supporting
  - Government and Public Administrations
  - SMEs and large companies
  - Critical Infrastructures
- Main actor of National Cyber Security Strategy
- Main reference contact for EU initiatives
- Implementing large research initiatives



## Research areas

The Cyber Security National Lab values the Italian research in this field thanks to an organization based on working groups which aim to promote and improve this activity on a national level together with the main stakeholder, in order to let it become a basic national benchmark and to create new chances of multidisciplinary research. Italian's research is now focused on:

- Enterprise and software Security
- Critical Infrastructure Protection
- Cryptographic algorithms and applications
- Biometrics
- Design, implementation and experimentation of resilient solutions for critical systems
- Secure computation
- Protection of cyber-physical and smart complex systems
- Physical-Layer Security
- Secure electronic archiving
- System and Network security
- Forensic Data Mining
- Security, privacy and dependability in the cloud
- Risk Analysis
- Hardware trust and security
- Logical and physical security
- Surveillance systems (video, audio etc)
- Vulnerability assessment
- Malware analysis
- Formal Methods for Security
- Open Source Intelligence
- Transactions Security
- Privacy for social networks and BigData
- Machine learning for cyber security
- Holistic approaches for assessment of Dependability and security
- Digital Identity
- Big Data Analytics for security (visual, video, audio etc)
- Virtual System forensics
- Electronic Voting
- WEB security

## Governance

Executive Director:

Prof. Roberto Baldoni

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Automatica e Gestionale "Antonio Ruberti"

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The Cyber Security National Lab has an Executive Board composed of the Executive Director and of the following members:

- Alessandro Armando (University of Genova)
- Rocco De Nicola (IMT)
- Luigi Vincenzo Mancini (Sapienza University)
- Antonino Mazzeo (University of Naples "Federico II")
- Paolo Prinetto (Politecnico di Torino)
- Pierangela Samarati (University of Milan)

## Working Groups

The Cyber Security National Lab value the Italian research thanks to an organization based on Working Groups which aim to promote and improve the national activity with the main stakeholders, to become an essential benchmark at an international level and to create new multidisciplinary chances for the research.

- ◉ Working Group "National GIF (Government-Finance-Industry)"
- ◉ Working Group "Europe and International Liaison"
- ◉ Working Group "Awareness"
- ◉ Working Group "Education and Certification"
- ◉ Working Group "Advises and Framework"

## Nodes and Laboratory Members

More than 250 Professors and Researchers who belong to 32 major Italian Universities join the Cyber Security National Lab. These Professors are gathered together in nodes and they implement the Lab's activities in the territory of our country. 32 local Labs join the Cyber Security National Lab. They are located in just as many other Italian Universities. Here's a list of the local labs with the node director name:

- ◉ IMT Institute for Advanced Studies Lucca
- ◉ Politecnico di Milano
- ◉ Politecnico di Torino
- ◉ Seconda Università degli Studi di Napoli
- ◉ Università "Ca' Foscari" di Venezia
- ◉ Università degli Studi del Sannio
- ◉ Università degli Studi dell'Insubria Varese-Como
- ◉ Università degli Studi di Bari
- ◉ Università degli Studi di Bologna
- ◉ Università degli Studi di Cagliari
- ◉ Università degli Studi di Catania
- ◉ Università degli Studi di Firenze
- ◉ Università degli Studi di Genova
- ◉ Università degli Studi di Milano
- ◉ Università degli Studi di Milano-Bicocca
- ◉ Università degli Studi di Modena e Reggio Emilia
- ◉ Università degli Studi di Napoli "Federico II"
- ◉ Università degli Studi di Napoli "Parthenope"
- ◉ Università degli Studi di Padova
- ◉ Università degli Studi di Palermo
- ◉ Università degli Studi di Parma
- ◉ Università degli Studi di Pavia
- ◉ Università degli Studi di Perugia
- ◉ Università degli Studi di Pisa
- ◉ Università degli Studi di Roma "La Sapienza"
- ◉ Università degli Studi di Roma "Tor Vergata"
- ◉ Università degli Studi di Salerno
- ◉ Università degli Studi di Torino
- ◉ Università degli Studi di Trento
- ◉ Università degli Studi di Udine
- ◉ Università della Calabria
- ◉ Università degli Studi "Mediterranea" di Reggio Calabria

## Contacts

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