

Security & Trust Research Unit: a bird's eye view

Alessandro Armando

<http://www.ai-lab.it>

AI-Lab
DIBRIS
University of Genova



<http://st.fbk.eu>

Security & Trust Research Unit
Center for Information Technologies
Bruno Kessler Foundation



Mission: Development of automatic analysis techniques for security-critical, distributed applications

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Why?

Mission: Development of automatic analysis techniques for security-critical, distributed applications

Why?

- Security solutions are notoriously difficult to get right.
- Traditional verification techniques (e.g. human inspection, testing) do not ensure the needed level of assurance
- Automated techniques can
 - systematically explore the state space of the system and guarantee a complete coverage of its behaviors
 - support the implementation of secure solutions/mechanisms

Web-based Authentication and Authorization Protocols

Web-based Authentication
and Authorization Protocols

Security of Cloud-based
and Service-oriented
Applications and Infrastructures

Web-based Authentication
and Authorization Protocols

Security of Cloud-based
and Service-oriented
Applications and Infrastructures

Mobile Security

Web-based Authentication
and Authorization Protocols

Security of Cloud-based
and Service-oriented
Applications and Infrastructures

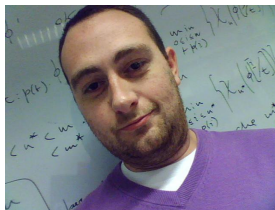
Mobile Security

Identity Management

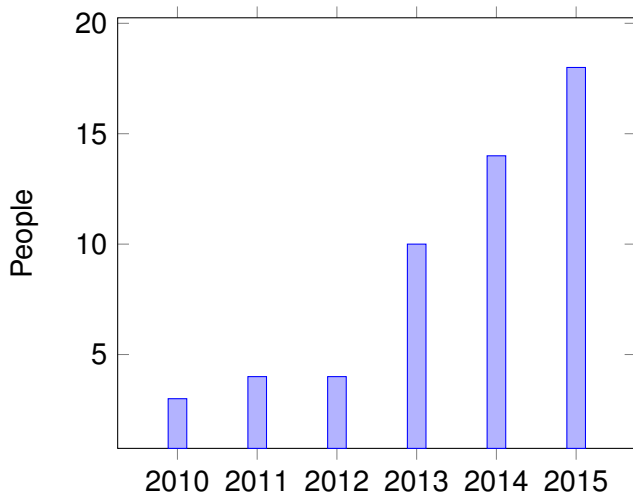
The Security & Trust Research Unit at a Glance



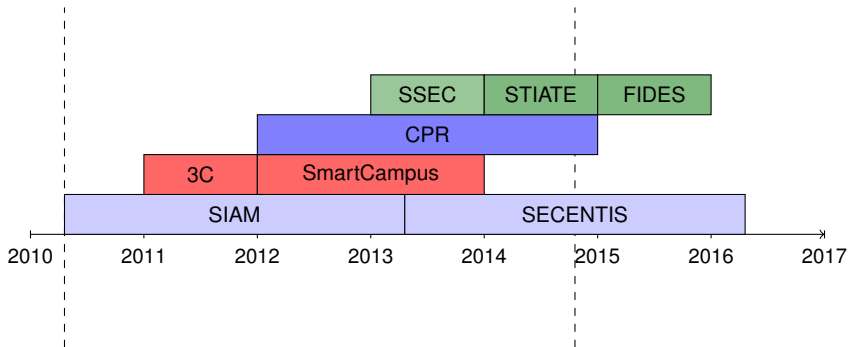
The CS-Lab (UNIGE) at a Glance



Statistics: S&T People



Research Projects



COFUND/EU

FBK/TrentoRISE

NATO

EIT

A European Industrial Doctorate on Security and Trust of Enterprise Information Systems



SECENTIS

A European Industrial Doctorate on Security and Trust

Consortium:

- Fondazione Bruno Kessler (Coordinator),
- Security & Trust Practice of SAP Research,
- University of Trento, and TrentoRISE.



Topics:

- Risk-based Access Control
- Security Policy Enforcement and Monitoring
- Certification of Third-parties Applications
- Automatic Security Analysis of Business Processes
- Automatic Analysis of Browser-based Security Protocols



UNIVERSITY
OF TRENTO



trentorise

Open Innovation rooted in Research and Education

Key data: Duration: 4 years; Funding: 1.2 MEuro

The logo for Posteitaliane, consisting of the word "Posteitaliane" in blue text on a yellow rectangular background.

What:

- Joint initiative by Posteitaliane and TrentoRISE
- Personnel: 8+1 researchers
- Topics:
 - digital identity
 - mobile security
 - risk analysis
 - ...

Where:

- North Building

When:

- Very soon!