



Paolo PRINETTO

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AFFILIATION

Director of the CINI Cybersecurity National Lab (<https://cybersecnatlab.it>)

[2017 – Current]

Membre du Conseil Scientifique du CNRS - Comité National de la Recherche Scientifique

[31/10/2023 – Current]

WORK EXPERIENCE

Full Professor of Computer Engineering (Settore Concorsuale 09/H1 - Sistemi di Elaborazione delle Informazioni, SSD ING-INF/05)

Politecnico di Torino [30/11/2021 – 31/10/2023]

City: Turin

Country: Italy

50% at the Dip. di Automatica e Informatica (CE Dept) of Politecnico di Torino, Turin (Italy)

Full Professor of Computer Engineering (Settore Concorsuale 09/H1 - Sistemi di Elaborazione delle Informazioni, SSD ING-INF/05)

IMT - School for Advanced Studies Lucca [30/11/2021 – 31/10/2023]

City: Lucca, LU

Country: Italy

50% at the IMT - School for Advanced Studies Lucca, Lucca (Italy)

Full professor of Computer Engineering at the Dip. di Automatica e Informatica (CE Dept) (Settore Concorsuale 09/H1 - Sistemi di Elaborazione delle Informazioni, SSD ING-INF/05)

Politecnico di Torino [31/10/1990 – 29/11/2021]

City: Turin

Country: Italy

Adjunct Professor

University of Illinois at Chicago, IL (USA) [2003 – 2020]

City: Chicago

Country: United States

Full professor of Computer Science at the Dip. di Storia (History Dept) (gruppo concorsuale 311: prima disciplina "Automi e Linguaggi Formali" - Corso di Laurea in "Conservazione dei beni culturali" della Fac

Università di Udine [13/10/1987 – 30/10/1990]

City: Udine

Country: Italy

Researcher (Ricercatore confermato) at the Dip. di Automatica e Informatica (CE Dept)

Politecnico di Torino [28/02/1982 – 12/10/1987]

City: Turin

Country: Italy

Research Assistant (Assistente incaricato supplente) at the Istituto di Elettrotecnica Generale (EE Institute)

Politecnico di Torino [28/02/1978 – 27/02/1982]

City: Turin

Country: Italy

Teaching Assistant (Coadiutore alle esercitazioni) at the Istituto di Elettrotecnica Generale (EE Institute)

Politecnico di Torino [31/10/1976 – 27/02/1978]

City: Turin

Country: Italy

EDUCATION AND TRAINING

Laurea (M.S. equivalent) in Electronic Engineering (110/110 cum laude)

Politecnico di Torino [24/10/1976]

City: Turin, TO

Country: Italy

Maturità Scientifica (60/60 cum laude)

Liceo Scientifico G. Segré [1970]

City: Turin, TO

Country: Italy

LANGUAGE SKILLS

Mother tongue(s): **Piemontais** | **Italian**

Other language(s):

English

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

French

LISTENING C2 READING C2 WRITING C2

SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

Russian

LISTENING A1 READING A1 WRITING A1

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

TEACHING ACTIVITIES

Instructor of courses

[01/11/2023 – Current]

[IMT](#), Lucca (Italy):

- *Basics of Technological, Social, and Legal Aspects of Cybersecurity* - Phd Programs on "Management of Digital Transformation" and "Systems Science"

RESEARCH ACTIVITIES

Research activities

Mainly focused on:

- *Hardware Security, Hardware-based Security, and Hardware Trust*
- *Digital Systems Design & Test*
- *Design-for-Testability, Built-in Self-Test & Built-in Self-Repair methodologies*
- *System Dependability*
- *FPGA-based designs*
- *ICT and Assistive Technologies for people with disabilities.*

RESEARCH PROJECT LEADERSHIP

Responsible of several research contracts with domestic and international Industries and Research Institutions

Including:

UE - ASI (Agenzia Spaziale Italiana) - CNR (Italian National Research Council) - [Ministero dell'Istruzione, dell'Università e della Ricerca](#) - Istituto Superiore Mario Boella - EDF Electricité De France (France) - ASSET (USA) - Siemens ICN - Italtel SpA - Ansaldo Trasporti - Ansaldo Signalling - ThalesAlenia Space - Magneti Marelli - Bottero - Selca - Aurelia Microelettronica - Yogitech - Blu5 (Malta)

CONFERENCES AND SEMINARS

Conference Board Membership

Chair of the Steering Committees of the following international conference:

2014-2016

IEEE ETS: European Test Symposium (2014 - 2016)

2018-2019

ITASEC: Italian Conference on Cybersecurity (2018 - 2019)

Conference Board Membership

General Chair of the following international conferences and workshops:

2024

- ITASEC24: Italian Conference on Cybersecurity, Salerno (April 2024) (General Co-Chair)

2023

- ITASEC23: Italian Conference on Cybersecurity, Bari (May 2023) (General Co-Chair)

2022

- ITASEC22: Italian Conference on Cybersecurity, Rome (June 2022) (General Co-Chair)

2021

- EWDTS 2021: East West Design and Test Symposium, Batumi (Georgia) (September 2021) (Vice General Chair)
- ITASEC21: Italian Conference on Cybersecurity, on-line (April 2021) (General Co-Chair)

2020

- EuroS&P 2020: IEEE European Symposium on Security and Privacy 2020 on-line (September 2020) (General Co-Chair)
- EWDTS 2020: East West Design and Test Symposium, Varna (Bulgaria) (September 2020) (Vice General Chair)
- ITASEC20: Italian Conference on Cybersecurity, Ancona (Italy) (February 2020) (General Co-Chair)

PROFESSIONAL INVOLVEMENTS

International

2021-2023

Appointed by the Italian *Ministry of University and Research*, as Italian Representative in the *Programme Committee for the specific programme implementing Horizon Europe - the Framework Programme for Research and Innovation - Civil Security for Society*

2020-2021

Appointed by the Italian *Ministry of Education, University and Research*, as Italian Representative in the *Civil Security for Society* sub-group of the *EU Shadow Strategic Programme Committee*

2010-2014

Member of the Scientific Committee of the *Centre National de la Recherche Scientifique* (C.N.R.S.) (the French National Research Council), a government-funded research organization, under the administrative authority of France's Ministry of Research

(<http://www.cnrs.fr/comitenational/cs/membres.htm>)

2010-2016

Member of the Scientific Committee of the *International Test Spring School* organized yearly by the IEEE ETS Steering Committee

2013-2018

Vice-Chair of the IFIP (International Federation for Information Processing) Technical Committee TC 10 - Computer Systems Technology aimed at "promoting the State-of-the-Art and the coordination of information exchange on concepts, methodologies, and tools in the stages in the life cycle of computer systems"

2000-2003

Elected chair of the IEEE - Computer Society TTTC: Test Technology Technical Council. The TTTC is a worldwide professional organization sponsored by the IEEE Computer Society. TTTC's goals are to contribute to members' professional development and advancement, to help them solve engineering problems in electronic test, and to help advance the state-of-the art

Domestic

2018-today

Appointed Director of the CINI Cybersecurity National Laboratory

<https://cybersecnatlab.it>

2023-today

Elected member of the Board of Governors (Consiglio di Amministrazione) of the SERICS (SEcurity and Rights In the CyberSpace) Foundation

<https://serics.eu>

2021-today

Coordinator of the program *OliCyber.IT*: the Italian Cybersecurity Olympiad: the first cybersecurity training and competition program entirely devoted to high school students

<https://olicyber.it>

2019-today

Coordinator of the program *CyberChallenge.IT*: the main Italian initiative aiming at identifying, attracting, recruiting, and placing the next generation of IT security professionals

<https://cyberchallenge.it>

2017-2018

Co-Editor of the White book "*The Future of Cybersecurity in Italy: Strategic project areas - Projects and Actions to better defend Italy from cyberattacks*"

<https://cybersecnatlab.it/projects/white-book/?lang=en>

2013-2018

Elected President of CINI (Consorzio Interuniversitario Nazionale per l'Informatica): a consortium of 47 Italian universities that do research in Computer Engineering & Computer Science, deliver MS/PhD degrees, and are public funded)

<http://www.consorzio-cini.it>

HONOURS AND AWARDS

Onorificenza di Cavaliere - Conferita dal Presidente della Repubblica "In considerazione di particolari benemerienze, su proposta del Presidente del Consiglio dei Ministri"

Presidente della Repubblica [27/12/2019]

Registrato nell'albo dei Cavalieri al N. 13025 Serie VI

Doctor Honoris Causa

Technical University of Cluj-Napoca (Romania) [2012]

"pentru contributia remarcabila in domeniul proiectarii si testarii sistemelor digitale si pentru activitatea de exceptie in statornicirea si dezvoltarea relatiilor de colaborare dintre universitatile noastre"

Meritorious Service Award

IEEE Computer Society

1. 2015, 2005, 2004, 2000, 1999, 1993

PUBLICATIONS

CFI: Control flow integrity or control flow interruption?

[2019]

IEEE East-West Design & Test Symposium (EWDTS), 1-6

Authors: Maunero, Nicolò; Prinetto, Paolo; Roascio, Gianluca

Il Futuro della Cybersecurity in Italia: Ambiti Progettuali Strategici - Progetti e Azioni per difendere al meglio il Paese dagli attacchi informatici

[2018]

CINI - Cybersecurity National Laboratory

Authors: Baldoni, Roberto; De Nicola, Rocco; Prinetto, Paolo

English Version: The Future of Cybersecurity in Italy: Strategic Project Areas - *Projects and Actions to better defend the Country from cyber attacks*

Scan chain encryption for the test, diagnosis and debug of secure circuits

[2017]

22nd IEEE European Test Symposium (ETS), 1-6

Authors: Da Silva, Matteo; Flottes, Marie Lise; Di Natale, Giorgio; Rouzeyre, Bruno; Prinetto, Paolo; Restif

STT-MRAM-based PUF architecture exploiting magnetic tunnel junction fabrication-induced variability

[2016]

ACM Journal on Emerging Technologies in Computing Systems (JETC), 13, 1, 5

Authors: Vatajelu, Elena Ioana; Natale, Giorgio Di; Barbareschi, Mario; Torres, Lionel; Indaco, Marco; Prinetto Paolo

SSDExplorer: a Virtual Platform for Performance/Reliability-oriented Fine-Grained Design Space Exploration of Solid State Drives

[2015]

IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 34, 10, 1627-1638

Authors: Zuolo, Lorenzo; Zambelli, Cristian; Micheloni, Rino; Indaco, Marco; Di Carlo, Stefano; Prinetto, Paolo; Bertozzi, Davide; Olivo, Piero

A list of Prof. Paolo Prinetto's most significant international publications can be found at:

www.scholar.google.com

<http://scholar.google.com/citations?user=KK2B5igAAAA>

www.scopus.com

<http://www.scopus.com/authid/detail.url?authorId=7005222576>

VOLUNTEERING

Comitato Girotondo

[Gassino Torinese, TO (Italy), Current]

Deeply involved in several solidarity and international cooperation activities of the Voluntary Association *Comitato Girotondo*, towards children and people contaminated by the Chernobyl nuclear disaster

(<http://www.comitato-girotondo.it>)

Project leader of the projects:

- "ECDL in Belarus"

- "EC4BC European Certifications for Belarusian Children"
- "CUROMA".