

PERSONAL INFORMATION

Flavio Lombardi

 via dei Taurini 19, 00185, Roma Italy

 flavio.lombardi@cnr.it

 www.iac.cnr.it/~lombardi

 [DBLP dblp.uni-trier.de/pers/hd/l/Lombardi:Flavio.html](https://dblp.uni-trier.de/pers/hd/l/Lombardi:Flavio.html)

ORCID ID 0000-0003-0723-7847

Google Scholar h-index: **14** i-10-index: **19** Citations: **1357**

Gender Male | **Date of birth** 1971 | **Nationality** Italian

WORK EXPERIENCE

2004 – Present Researcher

Institute for Applied Mathematics - National Research Council (IAC-CNR), Rome (Italy)

- Member of CNR Cybersecurity Virtual Laboratory
- Member of CNR Observatory on Artificial Intelligence

2009 – Present Adjunct Professor

Maths and Physics dept. Roma Tre University

- IN430 Advanced Computer Science (2009/2010, 2010/2011, 2011/2012, 2013/2014, 2014/2015, 2015/2016, 2016/2017, 2017/2018, 2018/2019, 2019/2020)
- IN490 Programming Languages (2018/2019, 2019/2020, 2020/2021, 2021/2022, 2022/2023, 2023/2024)

2016 – 2019 Adjunct Professor

Engineering dept. Tor Vergata University

- Fundamentals of Computing (2016/2017, 2017/2018, 2018/2019)

EDUCATION AND TRAINING

2006 Master Business Engineering

Universita Tor Vergata, Rome, Italy

2005 PhD Computer Science

Sapienza University, Rome, Italy

1999 MSc degree Computer Science

Sapienza University, Rome, Italy

PERSONAL SKILLS

Mother tongue Italian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C1
Spanish	C2	C2	C1	C1	C2

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
[Common European Framework of Reference for Languages](https://european-framework-of-reference-for-languages.eu)

- Communication skills**
- team work: I have worked in various international research teams.
 - intercultural skills: I am experienced at working in a multicultural environment.

- Computer skills**
- Extensive and Pervasive skills on: Operating Systems and Networking; Parallel and Distributed Programming;



ADDITIONAL INFORMATION

Carreer My MSc thesis marked the beginning of an interesting and proficuous collaboration with the IASI-CNR Research Institution where I performed research on reliable multicast protocols [62], and on the evaluation of network protocol performance [61]. In addition, data distribution techniques were applied to the replica management problem [59].

In 2004 I started research on distributed systems and in particular on grid computing [60, 56]. In 2005 I received my Ph.D. in Computer Science at “Sapienza University of Rome” with a thesis on multicast networking and its applications. In 2006 I received a Master degree (MBA Ingegneria dell’Impresa) at University of Rome “Tor Vergata” where I learned a great deal on project management, leadership and group motivation.

On the one hand, research activity on distributed systems [58] and on Web Services technology in particular was very fruitful, as it allowed proposing a novel system for ranking service instances [57]. On the other hand, the experience I gained in designing, implementing and managing complex software architectures allowed me to achieve interesting research results in software engineering [55, 54, 52].

Starting in 2008, a proficuous collaboration with my colleague Roberto Di Pietro brought results on security and integrity for virtualization guests [53, 48, 25]. Such results were vastly extended and later applied to cloud computing [50, 51, 47] and cloud forensics [44, 26]. Further achievements were obtained in the area of execution monitoring [39] and reliable/secure task offloading [46, 40, 36]. In particular, Anticheetah [46], a research paper on secure redundant task distribution on the cloud, was awarded the **Best Paper Award** at the IEEE International Conference on Advanced and Trusted Computing on December 2013. Interesting results have been obtained during my visiting at COSEC Lab, Carlos III University in Madrid (Spain) in the area of dynamic analysis of obfuscated malicious software components [43]. I met GPU technology and CUDA in 2008. This was a fruitful encounter [49, 45, 32, 15].

I have authored Book Chapters [41, 42, 27, 28, 29, 30, 31, 20, 10] and a book [35]. I have also co-authored a Patent on digital currency [1]. Interesting results on mobile device authentication have produced (among others) [24], a research paper on smart identification that was awarded the **Best Paper Award** at the EUSPN 2017 conference. Further results on automotive traffic analysis have produced a number of papers [18],[19],[21]. The latter was awarded the **Best Paper Award** at the TRAP-2017 Conference. Further research results are in Edge security [13], GPGPU (security and cryptanalysis) [23, 14], mobile/IoT security [37, 24, 4], secure payment approaches [38, 34, 33], Dark Web [22, 12, 11, 5], and Bots [6]. Further contribution on Encyclopedias is as follows [17, 16]. Recently I have investigated Graph contraction algorithms [8] and [9]. I also performed interesting research on network security [7] and [2]. Further results are on Malware classification leveraging AI are in [3].

Research Interests I especially love research involving Computing and Network Security, spanning from theoretical aspects of Cryptography to practical implementation issues leveraging latest CPU/GPU isolation technologies. I am presently investigating emerging AI approaches linked to security and privacy problems.

Collaboration Network I have built a solid collaboration network with international research links with prestigious universities and research institutions such as (among others) UPF @Barcelona, URV @Tarragona, Imperial College @London, Carlos III @Madrid, IIT-CNR @Pisa, University of Padua, Nokia Bell Labs @Paris, HBKU @Doha, KAUST@ .

Selected Talks

- “Microservices, Virtualization and IoT Security” @ Nokia Bell Labs, Paris, France, December 12, 2016;
- “Virtualization Security and Cloud Outsourcing” @ Alcatel-Lucent Bell Labs, Paris, France, November 23, 2015;
- “Well-behaved (Multicore) Mobile Clouds An Overview of Mobile Cloud issues” @ COSEC Lab., Univ. Carlos III Madrid, November 13, 2013;
- “Look! There’s a GPU behind that cloud! Introducing distributed GPU (security) issues” @ COSEC Lab., Univ. Carlos III Madrid, June 11, 2012;
- “GPGPU Computing Paradigm and Related Security Issues” @ CNR IIT on May 12, 2011, Pisa, Italy;
- “Virtual Machine Security with Results” @ the 6th PhD School on Security of Wireless Networking, July 7, 2010 in Bertinoro, Italy;
- “Virtual Machine Security: An Introduction” @ the 5th PhD School on Security of Wireless Networking, June 29, 2009 in Bertinoro, Italy.

Rewriting Activity Associate Editor Wiley IET Information Security <https://ietresearch.onlinelibrary.wiley.com/journal/17518717>, Editorial Board Member International Journal of Computer & Software Engineering https://www.graphyonline.com/journal/journal_home.php?journalid=IJCSE. Academic Editor Hindawi Security and Communication Networks <https://www.hindawi.com/journals/scn/editors/> Associate Editor Security, Privacy and Authentication (specialty section of Frontiers in Communications and Networks) <https://www.frontiersin.org/journals/communications-and-networks> Track Chair for the ANT 2016/2017/2018/2019/2020/2021/2022/2023 and EUSPN 2016/2017/2018/2019/2020/2021/2022/2023 conferences. PC member (among others) for: ACM RACS, DTRAP, ANT, ICCCN, ICACNI, WASMAS, IJAC, SACMAT, ... Reviewer for the following Journals/conferences: Oxford The Computer Journal, JONS, COMCOM, TIFS, JNCA, TPDS, SPE, CPE, ECRJ, IEEE S&P, SecureComm, JCS, IJIS, JNCA, NSS, NTMS, IASC, ISC, ICNC, Secrypt, ICCCN, WCNC, SPCC, SSCC, ANT, WiSec, ACNS, CRISIS, ESORICS, WoWMoM, FNC, EDI, EWGT, LightSec...

Selected Projects:

- IANCIS <http://www.iancis.eu/>
- ECESM <http://www.ecesm.net/>
- COURIER COUnterling Radlcalism InvEstigation platform - POR FESR 2014-2020
- TAILOR Foundations of Trustworthy AI <https://cordis.europa.eu/project/id/952215>
- SERICS (PE00000014) under the MUR National Recovery and Resilience Plan funded by the European Union - NextGenerationEU <https://serics.eu/>

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016, I hereby express my consent to process and use my data provided in this CV.

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