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"Studio di soluzioni implementative di piattaforme wireless per e-Health IoT."								
	EDUCATION AND TRAINING							
Northeastern University, Boston (MA), USA & Sapienza, University of Rome, Italy		Double PhD Program in Computer Engineering and ICT						
2018–2020 Master of Science in Cybersecurity	2018–2020							



Sapienza, University of Rome

- Final grade: 110/110
- Thesis title: "Intrusion Detection System for Bluetooth Mesh Networks: data gathering and experimental evaluations" [1]

2014–2018 Bachelor of Science in Computer Engineering

Sapienza, University of Rome

- Final grade: 101/110

PERSONAL SKILLS

Mother tongue Italian

Other language

nguages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	B2	B2	B2	B2
	Leveley Ad and AQ. Deale wear		D1 and D0. Independent user O1 and O0. Deficient user		

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user Common European Framework of Reference for Languages

Digital competences

SELF-ASSESSMENT

Information Processing	Communication	Content creation	Safety	Problem solving				
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user				
Digital competences - Self-assessment grid								

Computer skills

- Protocols and Concepts:

- · O-RAN, 5G networks and wireless technologies, BLE, mesh networking, Network Security Systems:
 - Unix-based systems, Windows
- Languages:
 - C++, C-UNIX, Python, Assembly(x86), Java, Arduino and IoT development, BASH, NodeJS, Javascript
- Other software:
 - MySQL, MongoDB, Bootstrap framework, StackStorm, Docker Cisco Packet Tracer, Microsoft Visual Studio, JetBrains's IDEs (PyCharm, IntelJ IDEA, Webstorm, Android Studio), UNIX system administration.
- Typesetting:
 - Office, Wordpress, LATEX

Driving licence B

PUBLICATIONS

- Andrea Lacava, Emanuele Giacomini, Francesco D'Alterio, and Francesca Cuomo. [1] "Intrusion Detection System for Bluetooth Mesh Networks: data gathering and experimental evaluations". In: SPT-IoT 2021: The Fifth Workshop on Security, Privacy and Trust in the Internet of Things (SPT-IoT 2021). Kassel, Germany, Mar. 2021.
- Andrea Lacava, Gianluigi Nero, Pierluigi Locatelli, Francesca Cuomo, and Tommaso [2] Melodia. "Demo Abstract: BE-Mesh: Bluetooth Low Energy Mesh Networking". In: 2019 IEEE INFOCOM Demo (INFOCOM 2019 Demo). Paris, France, Apr. 2019.
- [3] Andrea Petroni, Andrea Lacava, Pierluigi Locatelli, Gianluigi Nero, Marcello Pediconi, and Francesca Cuomo. "Exploiting Edge Computing for Adaptive Data Update in Internet of Things Networks." In: AmI (Workshops/Posters). 2019, pp. 27-37.



- [4] E. Giacomini, F. D'Alterio, A. Lacava, and F. Cuomo. "BLUES: A Self-organizing BLE Mesh-network Paradigm for IoT Environments". In: 2020 IEEE 21st International Symposium on "A World of Wireless, Mobile and Multimedia Networks" (WoWMoM). Aug. 2020, pp. 409–414.
- [5] Andrea Lacava, Valerio Zottola, Alessio Bonaldo, Francesca Cuomo, and Stefano Basagni. "Securing Bluetooth Low Energy networking: An overview of security procedures and threats". In: *Computer Networks* 211 (2022), p. 108953. URL: https: //www.sciencedirect.com/science/article/pii/S1389128622001335.
- [6] Andrea Lacava, Michele Polese, Rajarajan Sivaraj, Rahul Soundrarajan, Bhawani Shanker Bhati, Tarunjeet Singh, Tommaso Zugno, Francesca Cuomo, and Tommaso Melodia. "Programmable and Customized Intelligence for Traffic Steering in 5G Networks Using Open RAN Architectures". In: arXiv preprint arXiv:2209.14171 (2022).
- [7] Pierluigi Locatelli, Massimo Perri, Daniel Mauricio Jimenez Gutierrez, **Andrea Lacava**, and Francesca Cuomo. "Device discovery and tracing in the Bluetooth Low Energy domain". In: *Computer Communications* (2023).