Simone Aonzo

Résumé (Updated to: 2023/04/27)

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- Assistant Professor at Eurecom of Digital Security -

Education

- 2017–2020 **Ph.D. in Computer Science and Systems Engineering**, *DIBRIS*, University of Genoa (Italy).
- 2010-2015 Master in Computer Science, University of Genoa (Italy), 110/110 cum laude.

Thesis

- Ph.D. "Novel Attacks and Defenses in the Userland of Android" (2020)
- Master "A new permission handling in Android" [1] (2015)

Services

2020-now Program committee member of the International Symposium on Research in Attacks, Intrusions and Defenses (RAID)

Work Experience

- 2022-now Assistant Professor, Eurecom, Sophia Antipolis/France.
- 2021-2022 Research Engineer, Eurecom, Sophia Antipolis/France.
- 2020-2021 Postdoctoral Researcher, Eurecom, Sophia Antipolis/France.
- 2020 Malware Analyst, NDA.
- 2015-2017 Android Pentester, Talos srls, Genoa/Italy.
- 2007-2010 Network and Computer Systems Administrator, Teknoos, Savona/Italy.

Teaching

- 2023-now Introduction to Cybersecurity, for Eurecom (France).
- 2017-2020 Android Reverse Engineering, for Talos srls in private companies.
- 2018-2019 Mobile Security, Master in Cybersecurity, University of Genoa (Italy).
- 2017-2019 Android Programming, B.Sc. Computer Engineering, University of Genoa (Italy).
- 2017-2018 **Operating Systems**, B.Sc. Computer Engineering, University of Genoa (Italy).

Publications

- [1] S. Aonzo, G. Lagorio, and A. Merlo, "Rmperm: A tool for android permissions removal.," in *SECRYPT*, pp. 319–326, 2017.
- [2] S. Aonzo, A. Merlo, M. Migliardi, L. Oneto, and F. Palmieri, "Low-resource footprint, data-driven malware detection on android," *IEEE Transactions on Sustainable Computing*, 2017.
- [3] S. Aonzo, A. Merlo, G. Tavella, and Y. Fratantonio, "Phishing Attacks on Modern Android," in *Proceedings of the ACM Conference on Computer and Communications Security (CCS)*, (Toronto, Canada), October 2018.
- [4] D. Caputo, L. Verderame, S. Aonzo, and A. Merlo, "Droids in disarray: Detecting frame confusion in hybrid android apps," in *IFIP Annual Conference on Data and Applications Security and Privacy*, pp. 121–139, Springer, 2019.
- [5] A. Mantovani, S. Aonzo, X. Ugarte-Pedrero, A. Merlo, and D. Balzarotti, "Prevalence and impact of low-entropy packing schemes in the malware ecosystem," in *Network* and Distributed System Security (NDSS) Symposium, February 2020.
- [6] S. Aonzo, G. C. Georgiu, L. Verderame, and A. Merlo, "Obfuscapk: An open-source black-box obfuscation tool for android apps," *SoftwareX*, vol. 11, p. 100403, 2020.
- [7] A. Possemato, S. Aonzo, D. Balzarotti, and Y. Fratantonio, "Trust, But Verify: A Longitudinal Analysis Of Android OEM Compliance and Customization," in 2021 IEEE Symposium on Security and Privacy (SP), IEEE, 2021.
- [8] A. Mantovani, S. Aonzo, Y. Fratantonio, and D. Balzarotti, "RE-Mind: a First Look Inside the Mind of a Reverse Engineer," in 31st USENIX Security Symposium (USENIX Security 22), USENIX, 2022.
- [9] A. Ruggia, A. Possemato, S. Dambra, A. Merlo, S. Aonzo, and D. Balzarotti, "The dark side of native code on android," 2022.
- [10] S. Aonzo, Y. Han, A. Mantovani, and D. Balzarotti, "Humans vs. Machines in Malware Classification," in 32st USENIX Security Symposium (USENIX Security 23), USENIX, 2023.
- [11] A. Ruggia, A. Possemato, A. Merlo, D. Nisi, and S. Aonzo, "Android, notify me when it is time to go phishing," in EUROS&P 2023, 8th IEEE European Symposium on Security and Privacy, 2023.

Research Topics by Keyword

- Reverse Engineering [1, 4, 6, 7, 8]
- Malware Analysis [2, 5, 9, 10]
- Humans [8, 10]

- Machine Learning [2, 5, 9, 10]
- Phishing [3, 11]

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