Personal Information

Name	Wei Guo
Email	guoweigetit@gmail.com
School	University of Siena (UNISI)
Address	Via Roma 56, 53100, Siena Italy

Education

2020-now	**Ph.D. candidate**, *Department of Information Engineering Mathematics*, Univeristy of Siena.
2015-2018	**M.Eng.**, *Department of Computer and Information Security*, GUET, GPA: 82.75%.
2011-2015	**B.Sc.**, *Department of Mathematics and Computational Science*, GUET, GPA: 79.81%.

Research Interests

Category	Deep Learning, Backdoor or Trojan on Neural Network, Applied Cryptography, Internet of Things, Machine Learning
Topic	○ Backdoor generation and detection on Neural Network; ○ Lightweight Authentication Protocol on VANETs; ○ Collusion-tolerable Data Aggregation for Smart Grid; ○ Privacy-preserving Online Medical Prediagnosis Scheme.

Research Experiences

Mar., 2016 — Visiting student at the *Beijing Institute of Technology (BIT)*
- ○ Related to the *Side-Channel Attack*;
- ○ Studying the *Cryptography Algorithm Implement against Side-Channel Attack*;
- ○ Advised by *Dr. An Wang* (`http://cs.bit.edu.cn/szdw/jsml/fjs/wangan/index.htm`).

Mar.-Apr., 2017 — Visiting student at the *Nanjing University of Aeronautics and Astronautics (NUAA)*
- ○ Related to the *Homomorphic Encryption*;
- ○ Studying the *Privacy Protection Based on Homomorphic Encryption*;
- ○ Advised by *Dr. Youwen Zhu* (`http://zhuyw.cn/en.htm`).

Qct.-Apr., 2018 — Visiting researcher at the Canadian *University of New Brunswick (UNB)*
- ○ Related to the *Homomorphic Encryption*;
- ○ Studying the *Medical Prediagnosis Service on the Encrypted Data*;
- ○ Advised by *Dr. Rongxing Lu* (`http://www.cs.unb.ca/~rlu1/`).

Honors and Awards

2015	First-class Graduate Scholarship
2016	First-class Graduate Scholarship
2017	China National Scholarship for Graduate Students

2017	GUET Study Abroad Scholarship
2017	Award for Outstanding Research Postgraduate Student
2020	Award of CSC(China Scholarship Council) scholarship

Skills

Language	IELTS: 7.0 overall (L:7, R:8.5, S:7, W:6)
Typesetting	LaTeX
Programming	C, C++, Python, Pytorch

Publications

Conference

Wei Guo, Y. Liu, and J. Wang, "FPAP: fast pre-distribution authentication protocol for V2I," in *International Conference on Cloud Computing and Security.* Springer, 2016, pp. 25–36.

Journal

Wei Guo, J. Shao, R. Lu, Y. Liu, and A. Ghorbani, "A privacy-preserving online medical prediagnosis scheme for cloud environment," *IEEE Access*, 2018.

Y. Liu, **Wei Guo**, C. I. Fan, L. Chang, and C. Cheng, "A practical privacy-preserving data aggregation (3PDA) scheme for smart grid," *IEEE Transactions on Industrial Informatics*, 2018.

Y. Liu, **Wei Guo**, Q. Zhong, and G. Yao, "LVAP: Lightweight V2I authentication protocol using group communication in VANETs," *International Journal of Communication Systems*, 2017.