Cybersecurity Institute
Univ. Grenoble Alpes

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Newsletter #8 – October 2019

Editorial

In this month's edition, we would like to announce that many internship offers are now available on our website, and many more will soon be published. If you are a student interested in pursuing a career in research on cybersecurity or looking for a strong stepping stone towards others goals, feel free to apply now.

Regarding past and future events, we had the pleasure of hosting a workshop on october 9th presenting an interdisciplinary overview on the issue data privacy after one year under GDPR. If you could not manage to attend the event, some of the presentations are available here. Cyber@Alps director Philippe Elbaz-Vincent will also present our interdisciplinary approach to cybersecurity at the European CyberWeek (ECW) organized by the Pôle d'Excellence Cyber in Rennes on november 20th.

Finally, this edition's monthly column focuses on the SERENE-IoT project involving the LCIS Laboratory (Valence) and the CEA (Grenoble).

Events and calls for papers

Artificial Intelligence & Defense (C&ESAR conference) – November 21st 2019
The first conference "AI & Defense" will take place on November 21st 2019 during the 4th edition of the European Cyber Week (ECW).

Register now to CSAW'19 – November 6th-9th 2019

For the third year in a row, Grenoble-INP ESISAR will host the european finals of the largest academic cybersecurity contest in the world: the Cyber Security Awareness Worldwide (CSAW) ; in partnership with NYU, NYU Abu Dhabi and the Indian Institute of Technology.

PhD positions

- DNS Naming and Services for Secure Seamless IoT
- Trusted Internet-of-Things integration into pervasive applications

Internships

- Vulnérabilités et évaluation des générateurs de nombres aléatoires des composants sécurisés
- Design and study of fast AES-256 and SHA-3 implementations resistant against Side channel and fault attacks
- Ensuring Control-Flow Integrity in presence of Faults Injection
- Protecting a software against Control-Flow Integrity attacks
- Modeling Control-Flow Attackers of a Secure Cryptoprocessor
- Implémentation d'algorithmes cryptographiques dans une mémoire intelligente et caractérisation contre les attaques par canaux auxiliaires sur la consommation
- Implémentation de primitives pour la cryptographie sur courbes elliptiques définies sur GF(p)
- Sécurisation de blocs matériels contre les attaques physiques en modifiant les options d'implémentation

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Monthly column

Focus on: The SERENE-IoT Project

Cyril Bresch (LCIS)

In the domain of highly secure connected system, the SERENE IoT project (Secured & EneRgy EfficieNt hEalth-care solutions for IoT market) aims at developing high quality smart e-health IoT devices in Europe. The main goal of this project is to promote clinically verified prototypes with a high level of trust. **Read more**

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