



Newsletter #10 – January 2020

Editorial

In this month's edition, we wish you all a happy new year 2020!

We also want to remind you that we will be present at the next [International Cybersecurity Forum](#) in Lille on January 28-30th. The full program of our demos and Masterclasses is available [here](#).

A lot of internship and PhD offers are still available on our [website](#). Apply now!

Finally, this edition's monthly column focuses on the cybersecurity research activities of the Cyber, Data, Nano-Bio, AI group of the CESICE laboratory.

Events

- [Workshop PARI/GP](#) – January 20th - 24th 2020
Register now! Week-long workshop on the computer algebra system PARI/GP, to discuss the current and future development of the PARI/GP system but is open to all arithmeticians with an interest for explicit computations.
- [International Cybersecurity Forum \(FIC\)](#) – January 28th-30th 2020 (Lille)
For the third year in a row, Cyber@Alps will be present at FIC2020. More information about our activities will be available shortly.
- [Design Automation and Test in Europe \(DATE'20\)](#) – March 9-13 2020 (Grenoble)
Cyber@Alps is co-sponsoring the next edition of DATE which will take place in ALPEXPO (Grenoble). Register now!
- [SAVE THE DATE] Journée Attaques par Injection de Fautes (JAIF) – March 18th 2020 (Paris)
The third edition of the Workshop on fault-injection will take place on Wednesday March 18th in the Ecole Normale Supérieure (Paris, rue d'Ulm). Save the date!
- [\[SAVE-THE-DATE\] Workshop on Traffic Measurements for Cybersecurity \(WTMC 2020\)](#) – June 15th 2020 (Genova)
Cyber@Alps is co-sponsoring the 5th edition of WTMC which will take place in Genova (Italy) on June 15 2020. The event is co-located with the 5th IEEE European Symposium on Security and Privacy.

PhD positions

- [DNS Naming and Services for Secure Seamless IoT](#)
- [Unsupervised deep learning methods for side-channel attacks](#)

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](#)
- [Reverse engineering of FPGA firmware in control systems devices](#)
- [SRAM-Based PUF with STM Controllers](#)
- [Visualisation d'indicateurs sur la cybergouvernance](#)
- [Implémentation d'algorithmes cryptographiques dans une mémoire intelligente et caractérisation contre les attaques par canaux auxiliaires sur la consommation](#)
- [Mise en œuvre d'un démonstrateur pour la « self-sovereign identity »](#)
- [Fault modeling analysis through experimental attacks](#)
- [Modification du flot d'implémentation pour la sécurisation de blocs matériels](#)
- [New Steps in Crypto Crowdfunding and their Related Risks](#)
- [Market Microstructure and Cryptocurrency Exchanges](#)
- [Etude d'un outil de test de pénétration de communication inter-composants](#)
- [TRUSTEE](#)
- [Static analysis of programs for micro-architecture aware fault models](#)
- [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 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](#)

Other positions

- [Embedded software engineer at CEA Grenoble](#)

Monthly column

Focus on: Research activities of the Cyber, Data, Nano-Bio, AI group of the CESICE lab



The Centre for International Security and European Studies (CESICE) is a research centre (unit EA2420) which is part of the University Grenoble Alpes and the Political Science Institute of Grenoble. It includes 25 associate researchers, 4 emeritus professors and 4 associate members.

The Centre focuses its research on international and European matters, as well as Human Rights, mainly from a legal point of view but is also open to alternative perspectives (political science,



economics). Special attention is given to security as a general theme (international security, European security, the links between security and Human rights...). For the past few years, a strong emphasis has been placed on cybersecurity research, data protection and governance as well as artificial intelligence regulation, all of which are addressed from various standpoints: International Law, European Law, Comparative Law and in a multidisciplinary manner. [Read more](#)