Cybersecurity Institute
Univ. Grenoble Alpes

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Newsletter #11 – February 2020

Editorial

In this edition, our monthly column focuses on the research activities on cryptocurrencies and blockchain technology of the CERAG laboratory. On the same subject, we also want to announce that we are organizing a workshop entitled “Cryptocurrencies & blockchains : risks vs. stability” on October 15-16th. Registration is free and now opened.

Finally, we want to mention that Philippe Elbaz-Vincent, director of the Cybersecurity Institute, gave an interview to Acteurs Publics TV on the need for interdisciplinary research in cybersecurity during FIC'20 (Lille Grand Palais). The full video is available here.

Events

- 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!

- [REGISTER NOW] 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.

- [REGISTER NOW] Workshop on Cryptocurrencies & blockchains : risks vs. stability – October 15-16th 2020 (Grenoble)
  Cyber@Alps is organizing a workshop on cryptocurrencies and blockchains in October 2020. The preliminary schedule is available here.

PhD positions

- DNS Naming and Services for Secure Seamless IoT
- Unsupervised deep learning methods for side-channel attacks

Internships

- 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
- New Steps in Crypto Crowdfunding and their Related Risks

Univ. Grenoble Alpes
Editorial executive: philippe.elbaz-vincent@univ-grenoble-alpes.fr
Editor: romain.xu@univ-grenoble-alpes.fr

- Market Microstructure and Cryptocurrency Exchanges
- Etude d'un outil de test de pénétration de communication inter-composants
- 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 CERAG lab on cryptocurrencies and the blockchain technology

As a team of specialists in finance and management sciences, research on cybersecurity in the CERAG lab is focusing on the blockchain and cryptocurrency financial aspects. More precisely, we work on the following issues:

- The nature of crypto-assets;
- The interest of investing in cryptocurrencies;
- The blockchain's impact on financial markets and firms;
- The new forms to raise capital using the blockchain technology;
- The market microstructure of cryptocurrency Exchanges;
- The insurance of cyber risks.

Read more

Univ. Grenoble Alpes
Editorial executive: philippe.elbaz-vincent@univ-grenoble-alpes.fr
Editor: romain.xu@univ-grenoble-alpes.fr
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