

Grenoble  
ESISAR



# CSAW'19

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**NOVEMBER 6–8, 2019**

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Founded by the Department of Computer Science  
and Engineering at NYU Tandon School of Engineering



**VALENCE**



**NYU**

TANDON SCHOOL  
OF ENGINEERING

## Welcome

**November 6, 2019**

CSAW Europe 2019

Welcome to the third edition of CSAW Europe!

The Cybersecurity Awareness Week is the largest student-run cybersecurity event in the world. This 16th contest will be held simultaneously on several continent : New-York City for North America and Canada, Kanpur for India, Israel, Abu Dhabi for Mena, Mexico for México, and Valence hosted by Grenoble INP - Esisar for Europe.

CSAW is a three-day competition and conference bringing together students passionate about cybersecurity and industrial experts.

CSAW remains a most creative force to build a community and to offer students the opportunities they need to become leading designers and managers of secure systems.

I would like to express our sincere thanks to our local authorities, industrial and academic sponsors, who made this event possible. We hope all of you will enjoy meeting our partners, attending our conferences and that you will take advantage of CSAW many networking opportunities during your journey in Valence.

During these three days, the knowledge you gain, the relationship you build and the contributions you make will benefit the cybersecurity community for years to come. Thank you for being a part of this experience.

Sincerely,



**Nadine Guillemot**

Director  
Grenoble INP - Esisar

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The logo for Valence Romans Agglo is a red hexagon with the text 'Valence Romans AGGLO' in white. The 'AGGLO' part is in a larger, bold font. To the right of the text is a small white icon of a house with a chimney.

**Valence  
Romans  
AGGLO**

**Valence Romans Agglo is an administrative region that includes 56 towns and cities and nearly 215,000 inhabitants.**

**Easily accessible by several major rail, road, and air routes, Valence Romans Agglo enjoys a strategic geographical position that combines a highly developed transportation network with an exceptional quality of life. Nearly 2,000 companies are established here each year, and close to 65% of them are still in operation five years later, higher than the national average.**

**In 2016, Valence Romans Agglo was named an official green growth zero net energy region by the Ministry of Energy and Sustainable Development.**

**A territorial project was adopted in June 2015, for which 304 million euros in investments are projected until 2020.**

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MINISTÈRE  
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## COMMUNICATION PARTNERS



The generous support of our partners makes CSAW'19 possible.

# Master Agenda

General

Competitions

## WEDNESDAY, NOVEMBER 6

at Grenoble INP - Esisar

- Welcoming Reception for Capture the Flag Finalists 19:00 Room A042
- Capture The Flag 36-hour Competition Start 20:00 Rooms B148 - B152

## THURSDAY, NOVEMBER 7

at Grenoble INP - Esisar

- Welcome Event for Finalists & Sponsors Keynotes 18:00 Lecture Theater D030
  - Incentive Policies for Coordinated Vulnerability Disclosure - Gilles Yonnet, deputy CTO & Former Head of Cyberdefense Department at YesWeHack
  - How ethical hacking can contribute to cyber security-by-design in aeronautics - Nathalie Feyt, Design Authority Cybersecurity at Thales Avionics Worldwide & Gilles Durbec, Cybersecurity Director at Thales



## FRIDAY, NOVEMBER 8

at Grenoble INP - Esisar

■	Capture the Flag 36-hour Competition End	08:00	Rooms B148 - B152
■	Welcome Reception for Sponsors, Judges, Visitors	09:00	Room A042
■	Women In Network Community Breakfast	09:00	Room A049
■	Red team 8-hour Competition Start	09:00	Rooms B141 - B145
■	Cybersecurity Exhibition: Career Fair, Cybersecurity Demos	10:00	
■	Applied Research Competition Presentations (open to visitors)	10:00	Rooms A048 - B042
■	Embedded Security Challenge Presentations (open to visitors)	10:00	Rooms A046 - B044
■	End of Competitions	17:00	
■	Awards Ceremony	17:30	Lecture Theater D030
■	Networking & Closing Ceremony	19:00	Rooms A048 - A049





# Welcome to the heart of innovation

**Auvergne-Rhône-Alpes,  
the 1<sup>st</sup> Tech Region in Europe**

## **A unique Ecosystème**

- ➔ Dedicated to innovation
- ➔ Vibrant for incubation & acceleration

The Region, partner of the Cybersecurity contest organized by the Graduate School of Engineering in Advanced Systems and Networks



Welcome to the 3rd edition of the Cybersecurity Awareness Week!  
In the Auvergne-Rhône-Alpes Region, more than 98% of the local economic fabric is represented by VSEs/SMEs.

As systems are increasingly interconnected and networks intertwined, the risk of cyberthreats is therefore growing, with high potential consequences for these companies that have not yet measured them.

Therefore, to support them in their digital transformation but also to anticipate future employment and training needs and to raise users' awareness for a better understanding of the challenges, the Region has adopted an

effective public Cybersecurity policy and created the Digital Campus. The campus will be a platform to federate universities and companies and will focus on three main areas: training, digital transformation support and innovation. **Digital security is both an individual responsibility and a collective challenge. Let's take it together!**

**Juliette JARRY**, Vice-Présidente de la Région Auvergne-Rhône-Alpes, déléguée aux infrastructures, à l'économie et aux usages numériques

# JUDGES

CSAW judges hail from across the industry, representing some of the most elite experts and academicians in the cyber security community. We are honored to have them participate in our competitions and we are grateful for their contributions.

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## APPLIED RESEARCH COMPETITION

### FINAL JUDGES

- Guillaume Bouffard, Embedded Security Research Engineer at ANSSI
- Marie-Angela Cornelié, Cryptography Evaluator at CEA
- Jérémy Dubeuf, Staff Engineer at ARM
- Nathalie Feyt, Design Authority Cybersecurity at Thales Avionics Worldwide
- Bernard Kasser, Security Roadmap and R&D Lab Director at STMicroelectronics
- Julien Kern, Software Engineer at Ponant Technologies
- Sébastien Lapique, Auvergne-Rhône-Alpes Regional Manager
- Lucas Philippe, Technical Ambassador at YesWeHack
- Lionel Victor, Security Architect at Ingenico
- Romain Xu-Darme, Project Manager at Grenoble Alpes Cybersecurity Institute

## EMBEDDED SECURITY CHALLENGE

### FINAL JUDGES

- Alexandre Damier, Manager Integration, Projects & Audit department at Digital Security
- Jean Lou Hau, Co-founder & Engineering at YesWeHack
- Ayman Khalil, Managing Partner & COO at Red Alert Labs
- Sophie Laborde, Cybersecurity Manager at Thales
- Julien Montmasson, Security Engineer at STMicroelectronics
- Bruno Morata, Engineering Manager at Ponant Technologies
- Florian Pebay Peyroula, Cybersecurity Expert at CEA

## RED COMPETITION

### FINAL JUDGE

- Christophe Deleuze, Grenoble INP - Esisar

# Organizers & Supporters



# COMPETITION ORGANIZERS

CSAW'19 was developed through the hard work and dedication of the following Organizers and Supporters. Our sincere thanks!

**Laurent Pion & David Hély, General chairs**  
**Nadine Guillemot, Director of Grenoble INP - Esisar**

## ESISAR GLOBAL SUPPORT TEAM

### LOGISTIC & SUPPORTS

Gabriel Blanchard, Partnership  
Raphael Benoist, Communication manager  
Audrey Clamecy, Communication officer  
Véronique Jadin, Finance coordinator  
Nicolas Charroud, Logistics coordinator  
Stéphanie Michelin, Logistics support  
Zina Njeh, Logistics  
Caroline Palisse, Logistics coordinator  
Romain Doleux, Logistics support  
Athanasios Papadimitriou, Competition coordinator  
Philippe Serpollet, Infrastructure  
Bruno Teyssier, IT coordinator

### STUDENTS LEAD

Eduardo Navarro Tarján, Students coordinator  
Ivan Baheux, Students coordinator  
Louis Girard, Capture The Flag  
Pierre Coimbra De Brito, Capture The Flag  
Zoé Lagache, Applied Research  
Alexandre Faucquenoy, Embedded Security Challenge  
Anthony Magniat, Red Team competition  
Emilien Baty

### FACULTY GUIDES

Nicolas Barbot, Embedded Security Challenge leader  
Vincent Berouille, Embedded Security Challenge leader  
Emmanuel Brun, Capture the Flag leader  
Stéphanie Chollet, Applied Research competition leader  
Christophe Deleuze, Red Team competition leader  
Quentin Giorgi, Red Team competition leader

## NYU GLOBAL SUPPORT TEAM

### LOGISTIC & SUPPORTS

Stef Daley, Global competition Coordinator  
Emerald Knox, Project manager  
Amanda Morante, Graphic designer  
Ramesh Karri, Chair  
Nasir Memon, Founder

### GLOBAL CHALLENGE LEADS

Marcus Barbu, Red Team competition  
Rasika Bhalerao, Applied Research competition  
Leon Chou, Capture the Flag  
Patrick Cronin, Embedded Security Challenge (U. Delaware)  
John Cunniff, Red Team competition  
Jaime Danguillecourt, Technical infrastructure co-lead  
Brendan Dolan-Gavitt, Capture the Flag  
Junaid Farooq, Applied Research competition  
Chaz Gouert, Embedded Security Challenge (U. Delaware)  
Kent Ma, Capture the Flag  
Marina Moore, Applied Research competition  
Nektarios Tsoutsos, Embedded Security Challenge (U. Delaware)

With the kind and enthusiastic support  
of all Grenoble INP - Esisar and LCIS employees and students.



**Nicolas DARAGON**

Mayor of Valence

Valence Romans Agglo President

I'm very happy and honored to welcome you to Valence.

Valence is a medium-sized town with several universities and an engineering school of excellence, ESISAR. Our city demonstrates once again its ability to innovate in the forefront by organizing this event every year.

Cybersecurity is one of the challenges of our century. We need researchers, engineers, scientists, to seize these questions and prepare our future in safety. We also need Valence to develop its economic exchanges and especially internationally. We already do this by hosting 6 twinnings with cities in Europe or in the Middle East (Armenia, Israel and Lebanon).

This event will contribute greatly to these two challenges and I thank all those who made it possible to organize.

Our institutions of higher education and the economic actors of our region have to go worldwide as I am pretty sure they will provide the force to prepare and build the future.

I wish you a pleasant stay in Valence and a good competition to all!





## LET'S GO FOR DIGITAL INDUSTRY !

PONANT Technologies is a reputed expertise center in Information Technology (IT) and embedded systems for the industry.

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contact@ponant-technologies.com | 04 75 80 39 10 | www.ponant-technologies.com



# Competitions



# APPLIED RESEARCH COMPETITION

In the Applied Research Competition, student researchers are invited to enter the running for the CSAW Best Paper Award. Eligible submissions include papers published between September 1, 2018 and August 31, 2019, on any topic related to the application or implementation of security technologies or security systems.

## FINALISTS



**Amber van der Heijden, Eindhoven University of Technology,**  
The Netherlands

Cognitive Triaging of Phishing Attacks  
Amber van der Heijden and Luca Allodi



**Vladislav Mladenov, Ruhr-University Bochum,** Germany

1 Trillion Dollar Refund – How To Spoof PDF Signatures  
Vladislav Mladenov, Christian Mainka, Karsten Meyer zu Selhausen, Martin Grothe and Jörg Schwenk



**Fernando Virdia, Royal Holloway University of London,**  
United Kingdom

Implementing RLWE-based Schemes Using an RSA Co-Processor  
Martin R. Albrecht, Christian Hanser, Andrea Hoeller, Thomas Pöppelmann,  
Fernando Virdia and Andreas Wallner



**Felix Fischer, Chair of Cyber Trust, Technical University of Munich,**  
Germany

Stack Overflow Considered Helpful! Deep Learning Security  
Nudges Towards Stronger Cryptography  
Felix Fischer, Huang Xiao, Ching-Yu Kao, Yannick Stachelscheid, Benjamin  
Johnson, Danial Raza, Paul Fawkesley, Nat Buckley, Konstantin Böttinger, Paul  
Muntean and Jens Grossklags



**Lauren De Meyer, KU Leuven, imec – COSIC,** Belgium

M&M: Masks and Macs against Physical Attacks  
Lauren De Meyer, Victor Arribas, Svetla Nikova, Ventsislav Nikov and Vincent  
Rijmen



**Clara Schneidewind, Vienna University of Technology,** Austria

Anonymous Multi-Hop Locks for Blockchain Scalability and  
Interoperability  
Giulio Malavolta, Pedro Moreno-Sanchez, Clara Schneidewind, Aniket Kate  
and Matteo Maffei



**Alvis Rabitti, Ca' Foscari University of Venice, Italy**

Postcards from the Post-HTTP World: Amplification of HTTPS Vulnerabilities in the Web Ecosystem

Stefano Calzavara, Riccardo Focardi, Matus Nemec, Alvis Rabitti and Marco Squarcina



**Jiexin Zhang, University of Cambridge, United Kingdom**

SensorID: Sensor Calibration Fingerprinting for Smartphones

Jiexin Zhang, Alastair R. Beresford and Ian Sheret



**Stephan van Schaik, Vrije Universiteit Amsterdam,**

The Netherlands

RIDL: Rogue In-Flight Data Load

Stephan van Schaik, Alyssa Milburn, Sebastian Österlund, Pietro Frigo, Giorgi Maisuradze, Kaveh Razavi, Herbert Bos and Cristiano Giuffrida



**Lucian Cojocar, Vrije Universiteit Amsterdam, The Netherlands**

Exploiting Correcting Codes: On the Effectiveness of ECC memory Against Rowhammer Attacks

Lucian Cojocar, Kaveh Razavi, Cristiano Giuffrida and Herbert Bos

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# CAPTURE THE FLAG

Designed as an entry-level CTF, this competition requires players to integrate concepts, develop skills, and learn to hack as they go. Challenges mimic real-world scenarios modeling various computer security problems. To succeed, teams must demonstrate a profound understanding of the roles and ramifications of cyber security in these situations. Topics include Pwnable, RE, Web, Crypto, and Forensics.

## FINALISTS

### ALLES!, Saarland University & TU Dresden, Germany

Benno Fünfstück  
Florian Bauckholt  
Nico Gründel  
Simon Schwarz



### LOSFUZZYS, Graz University of Technology, Austria

Fabian Rauscher  
Ferdinand Bachman  
Michael Ehrenreich  
Vedad Hadzic



### NOPS, EURECOM, France

Andrea Possemato  
Emanuele Cozzi  
Savino Dambra  
Sebastian Poeplau



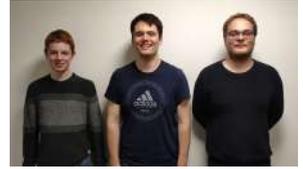
### PWNTHEMOLE, Polytechnic of Turin & University of Turin, Italy

Andrea Abram  
Angelo Delli Santi  
Matteo Rossi  
Pietro Francesco Tirennia



**REDGKROCKET**, Hochschule Bonne-Rhein-Sieg  
& Universität Bonn, Germany

Henrik Schnor  
Julian Härig  
Lukas Kempf  
Markus Kanz



**SALTEDCRACKERS**, University "La Statale"  
of Milan (UniMI), Italy

Altin Thartori  
Franco Marino  
Jacopo Tediosi  
Massimiliano Bellia



**STT**, Instituto Superior Técnico, University of Lisboa,

Portugal  
Afonso Santos  
Manuel Goulão  
Manuel Sousa  
Nuno Sabino



**TOWER OF HANOI**, Politecnico di Milano, Italy

Benedetto Nespola  
Lorenzo Binosi  
Luca Massaron  
Nicola Ruaro



**TRX**, La Sapienza University of Rome, Italy

Andrea Fioraldi  
Daniele Tarantino  
Pietro Borrello  
Qian Matteo Chen



**WRECKTHELINE**, University Politehnica of  
Bucharest, Romania

Filip Munteanu  
Fineas Florin Silaghi  
Octavian Guzu  
Silvia Elena Pripoe



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# YesWeHack

is launching today a new sequel,  
geared toward computer  
science degree  
students

HACK 2

The background features a blue diagonal line separating a white upper section from a dark grey lower section. Several grey gears of various sizes are scattered across the dark grey area. The text 'HACK 2' is written in a large, bold, blue font, slanted upwards from left to right, overlapping the diagonal line and the dark grey background.

# SCHOOL

[www.yeswehack.com/edu/](http://www.yeswehack.com/edu/)

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# EMBEDDED SECURITY CHALLENGE

Competitors must exploit the weaknesses of a target system, assess the effectiveness of their hardware security techniques, identify vulnerabilities and implement effective defense mechanisms.

Embedded Security Challenge (ESC) is an educational, research-oriented tournament aimed at hacking into the hardware of embedded systems. First run in 2008, it is the oldest hardware security competition in the world. 2019 represents ESC's 12 year anniversary!

## FINALISTS



### ALBSOCIETY, Albstadt-Sigmaringen University, Germany

Konstantin Bücheler  
Lucas Becker  
Patrick Regenscheid  
Team mentor : Tobias Heer



### DIRTY COWBOYS, Czech Technical University in Prague & University of Economics, Czech Republic

Adam Verner  
Eliška Kühnerová  
Jan Havranek  
Team mentor: Jaroslave Burcik



### ESIUNUPI, University of Piraeus, Greece

Kostas Mokos  
Kostas Nomikos  
Theodoros Apostolopoulos  
Vangelis Malamas  
Team mentor: Mihalis Psarakis



### FLUXFINGERS, Ruhr-University Bochum, Germany

Niklas Breitfeld  
Paul Gerste  
Tobias Scharnowski  
Team mentor: Thorsten Holz

## LES JAPLATIS, IUT de Valence, Université Grenoble Alpes, France

Alexandre Berard  
Florian Boyer  
Marie Vialle  
Nicolas Mege  
Team mentor: Sebastien Jean



## SIX-P'HACK, INSA Centre Val de Loire, France

Jeremy Briffaut  
Léo Casteiltort  
Nicolas Wendling  
Raphael Calvet  
Team mentor: Jérémy Briffaut



## TEAM POULPI, Grenoble INP - Esisar & Grenoble INP - Ensimag, France

François Sauger  
Richard Jarry  
Tahiry Ravelonahina  
Team mentor: Quentin Giorgi



## TECHWARRIORS, Infotech Master University of Stuttgart, Germany

Kaiwalya Belsare  
Manish Dalvi  
Sarthak Kelapure  
Varad Kulkarni  
Team mentor: Marco Aiello



## TRX, Sapienza University of Rome, Italy

Cristian Assaiante  
Christian Cotignola  
Matteo Almanza  
Qian Matteo Chen  
Team mentor: Camil Demetrescu



## UBS\_BZH, Université Bretagne Sud, France

Jérôme Blanchard  
Mathieu Dolmen  
Pierre Fontaine  
Romain Brenaget  
Team mentor: Cyril Chavet



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22 partners

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# RED TEAM COMPETITION

Formerly the High School Forensics Challenge, this competition has been redesigned as a two-part red team investigation for high school students.

The online Qualification Round runs as a jeopardy-style CTF. Challenges are designed to encourage learning and skill-building in the areas of reversing, web security, forensics, crypto and pwning.

During in-person Finals, high school teams will be tasked with infiltrating and analyzing the findings of the operation without getting caught.

**Red competition has been organised  
with the support of Académie de  
Grenoble, Académie de Lyon and  
Académie de Clermont-Ferrand**



## CMATRIX, Lycée Saint Victor, France

Aimé Deutsch  
Elouan Sausset  
Emerick Roman  
Team mentor: Christian Calleja

## DAMNKIDS, Lycée Algoud-Laffemas, France

Florian Laye  
Nathan Bernard  
Pierre Alix Roux  
Team mentor: Franck Hergniot

## GRATIX DE RAVIOLES IND, Lycée Notre Dame, France

Antoine Jean  
Nathan Muller  
Vivien Cros  
Team mentor: Gérald Perminjat

## JOJO, Lycée Algoud-Laffemas, France

Grigore Strisca  
Victor Zablocki  
Team mentor: Florence Desigaud

## KYOJIN, Lycée Aristide Bergès, France

Esteban Issartel

Léo Pellissier

Yanis Benhamed

Team mentor: Patrick Guérangé

## MANTG4, Lycée de la Matheysine, France

Alekos Anastassiou

Maxime Pierre

Tanguy Taverna

Team mentor: Laure Assie

## QWERTY, Lycée Notre Dame, France

Mathis Billon

Nel Coiffet

Sam Esber

Team mentor: Gérald Perminjat

## SANSNOM.ODT, Lycée Algoud-Laffemas, France

Axel Daujan

John Gouvard

Lucas Vincent

Team mentor: Eva Seignovert

## TOPIPA, Lycée Aristide Bergès, France

Pablo Montanier

Pierre Provost

Thomas Bercier

Team mentor: Patrick Guérangé

## UNDEFINED, Lycée Algoud-Laffemas, France

Mathéo Noalhyt

Maxens Gagne

Xavier Fremiot

Team mentor: Franck Hergniot

## VOX-ISN-01, Lycée polyvalent Vaucanson, France

Benjamin Tronchet

Roni Carta

Tao Beaufiles

Team mentor: Christophe Favre



# Questions about our CSAW t-shirt colors?



## **TURQUOISE SHIRTS**

**Student competitors** and other CSAW guests.



## **PURPLE SHIRTS**

**Support staff and volunteers.**

They're here to help you if you have questions.

Do you have questions or need assistance?

**[csaw-europe@esisar.grenoble-inp.fr](mailto:csaw-europe@esisar.grenoble-inp.fr)**

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## Notes & New Contacts

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