

# Riscure in Atlanta 2019

driving your security forward

August 22-28, 2019  
Sheraton Atlanta Hotel, Atlanta, GA, USA

Riscure / Rambus Seminar		FDTC 2019	CHES 2019			
Thursday August 22	Friday August 23	Saturday August 24	Sunday August 25	Monday August 26	Tuesday August 27	Wednesday August 28
Side Channel Analysis (SCA - SPA/DPA)	Fault Injection (FI)	Secret Room SCA/FI Demos	Secret Room SCA/FI Demos	Secret Room Demos Games with prizes	Secret Room Lunch Presentation Games with prizes	Secret Room Lunch Presentation Games with prizes
						

Riscure Secret Room - 7 Days – 1 Location – Next to FDTC/CHES Venue  
Meet with our experts, view a demo, play a game and show your skills...

## Seminar

Riscure, together with Rambus Cryptography Research are hosting a 2 day seminar at the same venue as FDTC/CHES. The aim of the seminar is to introduce the concepts of Side-Channel Analysis and Fault Injection.

This course is intended for developers, security evaluators and researchers focused on hardware security testing, government organizations seeking to analyze threats posed by state-of-the-art side channel attacks or fault injection, Rambus DPAWS customers and Riscure Inspector customers. The course does not require any specific existing experience. Having general knowledge about embedded systems architecture is welcome.

### Pricing 2 day seminar

- \$795 per trainee (US customers)
- Lunch included
- Excluding hotel or registration CHES/FDTC
- Maximum 25 trainees

Sheraton Atlanta Hotel  
165 Courtland Street NE  
Atlanta, Georgia  
30303 USA  
+1 404 459 6500

\*Special rates could be requested via the CHES website: <https://ches.iacr.org/2019/venue.shtml>


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## CHES 2019 – 25-28 August

For more than 10 years Riscure has been attending CHES as sponsor and displaying its tools during the coffee sessions. This year we will have a table showing some of our latest test tools and you have the option to talk with some of our security experts.

### Secret Room – 24-28 August

Next to the CHES venue we will have a special Secret Room for everybody to visit during CHES and FDTC.

- Have a private sessions with one of our Security Experts to get feedback on your ideas or discuss a new attack
- See the new Inspector in the cloud 
- Static Source Code Analysis – True Code in action
- Laser glitching does not have to be very expensive: Compact Laser System
- Deep Learning 4.0
- EM Probes re-defined
- Challenge yourself with various games for you to attend – with prizes
- Lunch presentations 27<sup>th</sup> and 28<sup>th</sup>. Topics to be announced...

## More info

<https://www.riscure.com/news/join-riscure-at-ches-and-fdtdc-2019/>  
Bartek Gedrojc – [Gedrojc@riscure.com](mailto:Gedrojc@riscure.com) - +31 6 48 19 39 86

# Agenda – Aug 22 – 23

Riscure/Rambus 2 day Seminar

## Thursday – August 22 – SPA/DPA - Rambus

9.00 – 75 min

- Welcome and Simple Power Analysis (SPA)

10.30 – Break – 15 min

10.45 – 60 min

- SPA Modular Exponentiation Exercise

11.45 – 30 min

- Electromagnetic Analysis Demonstration

12.15 – Lunch – 60 min

13.15 – 90 min

- Differential Power Analysis (DPA)

14.45 – Break – 15 min

15.00 – 75 min

- Differential Power Analysis Hands-on Exercise

16.15 – 30 min

- Preventing DPA: Countermeasures

16.45 – 45 min

- Testing and Certification

17.30 – End of day 1

## Friday – August 23 – FI – Riscure

9.00 – 9.30 – 30 min

- Riscure Intro

9:30 – 10:00 – 45 min

- Deep Learning

10:00 – 10:45 – 45 min

- Introduction into Fault Injection

10:45 – 11:00 – Break – 15 min

11:00 – 12:00 – 45 min

- Inspector FI in Python

12:00 – 12:45 – Lunch – 45 min

12:45 – 13.30 – 60 min

- Secure Boot + Simulator

13:30– 15:30 – 120 min

- Hands-on with Fault Injection
  - Build your own setup
- Hardware and Software Simulation
- FI Pinata demo

15:30 – 15:45 – Break – 15 min

15:45 – 16:30 – 45 min

- True Code

16:30 – 17:00 – 30 min

- Q&A Wrap-up

## Practical information

- Workshop start every day at 9.00 and ends at 17.00/17.30
- Lunch and breaks are included
- Coffee, snacks, drinks are included



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## More info

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<https://ches.iacr.org/2019/> - CHES 2019  
<http://conferenze.dei.polimi.it/FDTC19/> - FDTC 2019