

# RFID Security and Privacy Training Week

For Engineers, Project Managers, and Researchers

March 29 – April 02, 2010

Organized by the UCL's Information Security Group, Belgium

<http://sites.uclouvain.be/security/rfidtraining.html>

Registration by February 1st, 2010

The objective of this course given by Prof. Gildas Avoine is to provide to engineers, managers, and researchers competences in RFID security and privacy, in order to allow them to better understand and analyze the security needs of their RFID solutions. Both theory and practice will be considered, with a special half-day devoted to practices in labs under the guidance of an industrial security expert. The course especially targets the following audience (but is not limited to): integrators, suppliers, sellers, and manufacturers, which can be SMEs or larger companies, public organizations, or research groups.

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## CONTACT

### Monday (afternoon)

Introduction to token-based authentication.  
RFID primer, capabilities, applications.  
ISO 14443, ISO 15693, ISO 18000.  
Collision avoidance protocols.  
Classification of security and privacy threats.

### Tuesday

Basics in cryptography, standards.  
Authentication protocols, ISO 9798.  
Pseudo-random generators.  
Time-memory trade-off.  
Weak designs: TI DST, Mifare Classic.  
Security of EPC Gen 2, NFC.

### Wednesday

RFID in practice. Standard ISO 7816.  
RFID softwares and hardwares.  
Practices in labs.

### Thursday

Relay attacks and proximity checks.  
Privacy, information leakage.  
Illicit tracking and denial of service.  
Competitive intelligence.

### Friday (morning)

Description of the biometric passport.  
Presentation of study cases.  
Development of secure applications.

Prof. Gildas Avoine  
gildas.avoine@uclouvain.be  
Université catholique de Louvain  
UCL / INGI / GSI  
Place Sainte Barbe, 2  
B-1348 Louvain-la-Neuve, Belgium

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## LOCATION

The course will take place from Monday 29 March 2010 to Friday 02 April 2010 in Louvain-la-Neuve, Belgium. Louvain-la-Neuve is located 25 kilometers from Brussels and is easily accessible by train from the airport. The journey from Brussels downtown to Louvain-la-Neuve is about 40 minutes. In Louvain-la-Neuve, the train station is located in the very center of the campus.

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## REGISTRATION

The fees for the training week are 1750 euros including lectures and practices, handouts, lunches in restaurants, and coffee breaks. An RFID reader will be offered to each participant. Registration should be done before **February 1st, 2010**, by fax or email using the registration form available at <http://sites.uclouvain.be/security/rfidtraining.html>. Payments by wire transfer and cash on site are both accepted.

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## URL

<http://sites.uclouvain.be/security/rfidtraining.html>

The Information Security Group (GSI) is part of the Department of Computing Science and Engineering of the UCL in Belgium. Founded in 2008 by Prof. Gildas Avoine, the GSI offers an active environment to improve the current state of information security, through research and teaching activities. It especially considers industrial security and applied cryptography for RFID. It is proud to maintain the RFID Security and Privacy Lounge, a scientific website created in 2004 that references about 400 research papers and which counts 750 registered members. Before joining the UCL, Gildas Avoine was researcher at the MIT hosted by Ron Rivest, and at the EPFL where he obtained a PhD degree in cryptography.



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## REGISTRATION FORM

Registration is required to attend the RFID Security and Privacy Training Week and should be completed by February 1st, 2010. The registry fees (1750 euros) include lectures and practices, handouts, lunches in restaurants, and coffee breaks. Payments by wire transfer and cash are both accepted. The course is limited to 25 attendees.

Last name: ..... Title: .....

First name: .....

Company: .....

Address: .....

Email: .....

Phone: ..... Fax: .....

Remarks: .....

Payment by wire transfer.

Payment by cash on site.

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1. This form must be signed, scanned, and sent to [gildas.avoine@uclouvain.be](mailto:gildas.avoine@uclouvain.be) or faxed to **+32 (0)10.45.03.45** (in the latter case, please also send an email to be sure that your fax has been received).

2. In case of wired payment, please use the following account:

Université catholique de Louvain  
Banque Dexia, 44, boulevard Pacheco, B-1000 Bruxelles  
Code IBAN: BE 66 091-0015728-43  
Code Swift: GKCC BE BB  
091-0015728-43

Please do not forget to mention the following reference: **"INFO 1561 <your last name> <your first name>"**.

3. The Hotel Mercure in Louvain-la-Neuve offers special rate for attendees. Please give the name of the event "RFID Training Week" to obtain the special rate. Contact: Hotel Mercure, Boulevard de Lauzelle 61, B-1348 Louvain-la-Neuve, Belgium, Tel: **+32 (0)10.45.07.51**, Fax: **+32 (0)10.45.09.11**, <http://www.mercure.com/fr/hotel-2200-mercure-louvain-la-neuve-centre-de-seminaires>.

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Date:

Signature: