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4th edition

# Smart University

## Advanced educational program

# Sharpening skills in Smart Card, e-ID, and Mobile Telecoms

September 16-19, 2008 – Sophia Antipolis, French Riviera

www.smart-university.eu

# 2008 Program

Strategic Partners

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## Welcome to Smart University 2008

**"Smart University"** (4th edition) is an educational program dedicated to advanced technologies of Smart Card, e-ID, and Mobile Telecoms. Successfully launched in 2005 "Smart University" relies on a strong academic background provided by its European university partners.

This approach is completed by cases and live testimonials from R&D labs and industry researchers that focus on the newest developments of technologies.

"Smart University" addresses engineers, researchers as well as executives, willing to widen and deepen the scope of their knowledge on new technological and strategic issues of Smart Cards, e-ID, and Mobile Telecoms.

The program consists of **6 tracks of 2 days according to a workshop format** which enables time for Q&A and for discussions, and a large interactivity between participants, teachers and lecturers. The schedule of these modules allows participants to attend successively 2 modules of their choice.

Most tracks are **designed and delivered by high level academics** and the quality of the program is controlled by program coordinators.

The program is **endorsed by some of the best European universities, schools, institutes and labs** such as CNAM (France), INRIA (France), University of Louvain-la-Neuve (Belgium), University of Milan (Italy), University of Nice Sophia Antipolis (France)…

For each track participants will receive at the end a diploma signed by the teachers and certifying of their active participation to the course.

## The 6 educational modules are:

- **module 1:** The art of Java Card 3.0 Programming (Sept. 16 - 17)
- **module 2:** Identity Management (Sept. 16 - 17)
- **module 3:** Smart Card & Mobile Telecoms (Sept. 16 - 17)
- **module 4:** Secure devices: Smart Cards, RFID Tags and Pufs (Sept. 16 - 17)
- **module 5:** Security Certification of Software Systems (Sept. 18-19)
- **module 6:** NFC: Near Field Communication (Sept. 18 - 19)

"Smart University" is part of the well established "Smart Event" that stands out as the foremost Innovation Forum for Mobility and Trusted Technologies & Services. "Smart Event" encompasses 3 other first class conferences:

**e-Smart** – 9th edition, The future of digital security technologies (Sept. 17 - 19, 2008)

**World e-ID** – 5th edition, The next e-ID management technologies and services (Sept. 17 - 19, 2008)

**Smart Mobility** – 1st edition, The emergence of trusted mobile applications (Sept. 17-19, 2008)

"Smart University" co-location with these 3 international conferences facilitates networking and exchanges with the other participants as well as the attendance to the exhibition area.

Smart University

## At a glance

**Sept.16 & 17**

module 1: The art of Java Card 3.0 Programming

module 2: Identity Management

module 3: Smart Card & Mobile Telecoms

module 4: Secure Devices

**Sept.18 & 19**

module 5: Security Certification of Software systems

module 6: Near Field Communication

## Program Coordinators

1. Richard Bricaire, Editorial Consultant, Strategies Télécoms & Multimédia

2. Dr Sabine Delaitre, University of Malaga, Spain

3. Antonio Maña, Professor, University of Malaga, Spain

4. Pierre Paradinas, Professor, CNAM / INRIA

Smart University

## Module 1 >>

# The art of Java Card 3.0 Programming (2 days)

## Sept. 16 & 17

**Module designed and coordinated by**
**Professor Pierre Paradinas, CNAM / INRIA**

**This year Smart Card software session is dedicated to the main event in term of technology for smart card : the Java Card 3.0 specification release.**

**The session will be designed with the important participation of the Java Card Forum and its partners, and a tentative session with available and real card is planned...**

***Who should attend:***
**This session is dedicated to a very large category of attendees: Java and Java Card developers, Technology Consultants, Application architects, Technical managers**

***What you will learn:***
**You will understand Java Card Specification and how to program on Java Card 3.0**

***Key topics:*** **Java Card 3.0 – Smart Card Web Server – Security**

### *Sept. 16*

9.00 am – 12.30 am

Introduction: *Pierre Paradinas, Inria/Cnam, France*

SESSION 1: Java Card 3.0 Technology

- Java Card 3.0 Overview: *Eric Vétillard, Trusted Labs, France*
- Evolution of the Java Card Framework and Security Model

2.00 pm – 5.30 pm

SESSION 2: The Web: from server rooms to pocket-size devices

- Basics: TCP/IP, HTTP and Servlets, JavaScript and AJAX : *Gilles Grimaud and Simon Duquennoy, USTL/INRIA/CNRS*
- Smart Card Web Servers: The First Generation: *Franck Dehlinger and Patrick Enjolras, Gemalto*

### *Sept. 17*

9.00 am – 12.30 am

SESSION 3: Java Card 3.0 Connected Edition

- The Java Card 3.0 Web Application Model *Laurent Lagosanto and Patrick Van-Haver, Gemalto*
- Security of Java Card 3.0 in the context of Web Applications *Pierre Girard and Benoît Gonzalvo, Gemalto*
- Deployment of Java Card Web 3.0 Applications *Olivier Potonniée, Gemalto*

2.00 pm – 5.30 pm

SESSION 4: Hands-on session, *Anki.Nelaturu, Sun Microsystems*

- Getting ready with NetBeans and JavaCard development kit.
- Create a simple HelloWorld and run it using Reference Implementation (RI) with a few clicks.
- Adding more Servlets
- Adding security constraints
- Interactions with Users and Other Servers
- Application Collaboration
- Using various new APIs
- Creating extended Applets
- SIOs
- Interaction between Extended and Web using SIOs
- ... and so on...

## Module 2 >>

# Paving the way to next generation Identity Management (1 day & a half)

## Sept. 16 & 17

**Module designed and coordinated by**
**Dr Sabine Delaitre, University of Malaga (UMA)**

**In the context of mobility, ambient intelligence and increasingly complex and evolving digital value chains, the individual becomes the central point of convergence for digital networks and services. Digital identity, its nature, assertion, negotiation, defence and use, is one of the most challenging issues of the coming years.**

**Because the digital world is widely appreciated, exploited and finally transformed by companies and users, it is quickly evolving; indeed different deployments are rapidly increasing such as platforms enabling online communities and other powerful tools, which extend our ability to access, share and manipulate information.**

**Digital interactions are a growing reality and individuals or organisations become more and more components of digital networks where the representation of identities is the main gateway. Therefore and in this context, "Identity" becomes a broad concept relating to all forms of personal identifiers and data, and finally encompasses manifold aspects including traces, profile, presence, location data, collective being, avatars, self-presentation, reputation, etc. Hence, we are faced to a variety of technologies that promise to solve problems in the field of identity, identification, authentication and so on, in this new digital environment, which tends to blur the traditional boundaries between the private and the public space.**

**The infrastructures have to be adapted and various trends emerge stemming from the modern world of distributed network services and around different concepts such as federated identity, trust models, reputation, social networks, access and compliance.**

**For the edition 2008, this module will introduce the basic components of IDM, describe digital identity as a key enabler for eServices access, and will discuss the new opportunities that digital identities provide for individuals and organizations.**

***Who should attend:*** **IT managers, researchers, Head of IT from various industries: security, healthcare, law enforcement, welfare, physical access control any person who has interest in learning about Identity Management in order to understand the electronic applications´ range, the societal dimension of the digital identity and its implications.**

***What you will learn:*** **This module will introduce the basic components of IDM, describe digital identity as a key enabler for eServices access, and will discuss the new opportunities that digital identities provide for individuals and organizations**

***Key topics:*** **Digital Identity - eGovernment, eServices - Mobile communities - Societal dimension**

### *Sept. 16*

9.00 am

Welcome and Introduction
*Sabine Delaitre, UMA, Spain*

9.15 am – 12.30 am

Citizen - controlled eIdentity Management: combining maximal rustworthiness with data minimality
*Prof Dr. Reinhard Riedl, Berne University of Applied Sciences, Switzerland*

2.00 pm – 5.30 pm

Privacy in Identity Management for eGovernment
*Xavier Huysmans, K.U. Leuven, Belgium*

### *Sept. 17*

9.00 am – 10.00 am

Towards identity management for eServices
*Ernesto Damiani, Dep. Information Technology, Milan Faculty, Italy*

10.30 am – 12.00 am

Identity management for online and mobile communities – a legal perspective
*Eleni Kosta, , K.U. Leuven, Belgium*

12.00 am – 1.00 pm

Identity management: new opportunities
*Sabine Delaitre, UMA, Spain*

# Module 3 >> Smart Card & Mobile Telecoms (2 days)

## Sept. 16 & 17

Module designed and coordinated by Rick Chandler, Chairman, Wireless Group EEMA

**"Convergence" and the growth of "All-IP" infrastructures have presented Mobile and Fixed Telecommunications Operators with new challenges and also new opportunities for chargeable services.**

**Whilst Mobile Operators are reluctant to regard themselves as purely "Bit Pipes" in the same way that Fixed Telecoms Operators accepted many years ago there are signs that they will have little choice. Their ownership of the SIM as an Authentication system has been strongly defended but widespread availability of alternative Wireless and Fixed Broadband services and new authentication technologies is challenging this.**

**This Module will review current non-proprietary research some of which shows how technologies which are covered in depth in other Smart University streams might provide new Mobile services and applications. Operators might deliver them to the end user either as part of a common set of services or as a proposition for a new "Telco2" next generation Operator. Extension of the SIM as a smartcard host to other applications will be reviewed together with associated technologies such as NFC and RFID on Mobile devices.**

**Research presenters from Universities and Technology companies will be supported by case studies from Operators leading this field.**

**Research Examples which require a "Mobile or Converged service" glue might include:-**

**Integration of NFC and Smart cards into mobile devices as a mechanism for Secure Identification and Authentication. Electronic payment, Transport, access control etc.**

**RFID Security + Tracking services are being deployed as part of the "Network of Things" for asset monitoring, Global Supply Chain projects etc. and extensive Sensor Networks are being researched.**

**Biometrics and Bionics sensors will supplement this and extend it to living or organic subjects and extend services into Buildings and Homes through Ambient Intelligent technologies**

- ***Who should attend:*** **Anybody developing Solutions or services relying on Wireless Infrastructure:-End Users, Solutions Providers Heads of Security from various industries: security, banking, finance, education, energy, healthcare, law enforcement, welfare, immigration, physical access control. Government agencies and public services.**
- ***What you will learn:*** **Discover how new and emerging technologies will extend to the creation of new mobiles services and applications**
- ***Key topics:*** **New Market and Service propositions: Location Based Services – NFC – RFID – Mobile Sensor Networks – Biometrics**

### Sept. 16

10.00 am -11.00 am
Real-time locating system & location based services
*Prof. Carlo Maria Medaglia CATTID - University of Rome "Sapienza," Italy*

11.00 am -12.00 am
High Accuracy Location Services through Terrestrial Wireless Networks.
*Rick Chandler – Chair Wireless Group – EEMA*

2.00 pm – 5.30 pm
Workshop on trusted next generation Mobile messaging
*Dr Piotr Cofta - Chief Researcher - BT Mobility Research, Colin Mallett - Chief Executive – Fulvens Ltd.*
Experiences of building Mobile-ID over NFC prototype infrastructure (Case Study)
*Jürgen Niinre - R&D Manager – EMT Estonia*

### Sept. 17

09.00 am -10.00 am
Mobile WiMAX
*speaker tbc*

10.00 am -11.00 am
Mobile Sensor Networks
*speaker tbc*

11.00 am -12.00 am
*Biometrics and Mobility*
*speaker tbc*

# Module 4 >> Secure Devices: Smart Cards, RFID Tags and Pufs

Module designed and coordinated by Jean-Jacques Quisquater, Head

**Security is important for smart card, RFID (contactless) and PUF (Physical Unclonable Function) devices mainly from the hardware and cryptographic views.**

**Hardware security is related to the problems of passive and active attacks and cryptographic security is related to the low resource requirements.**

**This module is mainly devoted to the hardware (physical) and cryptographic security with a smooth side for software security. We assume that trainees know a little bit about smart cards (if no, contact us before the course, we will send you an introduction to the field).**

**The remaining parts are self-containing.**

**Physical devices are leaking information, including secret keys,**

### Sept. 16

9.00 am -12.30 am
Introduction to Security of Smart Cards *François Koeune, UCL, Louvain-la-Neuve, Belgium*
2.00 pm – 5.30 pm
Advanced Security for Smart Cards: from Theory to Practise *François-Xavier Standaert, UCL, Louvain-la-Neuve, Belgium*

# Module 5 >> Security Certification of Software systems

Module designed and coordinated by Professor Ernesto Damiani,

**The stringent requirements in terms of software security of mission critical platforms such as digital rights management, telecommunication and automotive raised the need for some form of security certification based on rigorous in-depth system analysis conducted by independent, and internationally recognized organizations. This analysis is aimed at assessing the security level of software so that each organization can choose the software product that best meets its security requirements. Even though security certifications have their application still restricted to a small part of potential target systems, their diffusion is increasing and it is likely that in a near future they will become a prerequisite for many other industries.**

- ***Who should attend:*** **IT developers and architects, Security/IT managers, C and Java developers, researchers and academics.**
- ***What you will learn:*** **This module will start by reviewing test-based and verification-based solutions to create a standard for security certifications.**

### Sept. 18

9.00 am – 9.30 am
Module presentation: introduction *Prof. Ernesto Damiani, Full Prof. at Department of Information Technology, Università degli Studi di Milano*
9.30 am -11.00 am
State of the art of the software certification techniques *Volkmar Lotz, Research Program Manager for Security and Trust, SAP Research*
11.30 am – 1.00 pm
Introduction to formal methods for software certification: the role of formal methods *Dieter Hutter, Principal Researcher, German Research Center for Artificial Intelligence*
2.30 pm – 4.00 pm
VSE: Formal methods meet industrial needs *Werner Stephan, Researcher, German Research Center for Artificial Intelligence*
4.30 pm – 6.00 pm
Introduction to test base certification on open source platforms *Prof. Ernesto Damiani, Full Professor at Department of Information Technology, Università degli Studi di Milano*
6.00 pm – 6.30 pm
Discussion and lessons learned *Chair Prof. Ernesto Damiani, Full Prof. at Department of Information Technology, Università degli Studi di Milano*

## **(2 days)** Sept. 16 & 17

of the UCL Crypto Group, University of Louvain-la-Neuve (Belgium)

**passwords, aso, and it is important to know why, when and how to avoid it. It is the task of this course. Active attacks (faults) are also very important and we will address it.**

**An effective methodology to handle the main problems will be described.**

**A large part of the module will be devoted to RFID security and their applications including e- passports, tags for commerce and identification.**

**We will finally give the new flavors from the main conferences related to the security of secure devices, including CHES, CARDIS, E-SMART, CRYPTO, EUROCRYPT, PKC, FSE, ... with direct applications for the industry and the design of secure devices.**

### *Sept. 17*

9.00 am -12.30 am

RFID and Contactless Cards Security *Gildas Avoine, UCL, Louvain-la-Neuve, Belgium*

2.00 pm – 5.30 pm

Smart Cards, RFID, PUF and Cryptography: Recent News *Jean-Jacques Quisquater, Director of UCL Crypto Group, UCL, Louvain-la-Neuve Belgium*

## **(2 days)** Sept. 18 & 19

University of Milan

**Then the module will focus on the problem of certifying an IT products at an international level. Finally, this module will focus on discussing the application of security certifications to OSS scenario and on setting up a virtual certification facility for OSS in various applications scenarios, such as DRM, telecommunication and embedded systems.**

**This module covers 3 main issues :**

- **How to choose among the techniques and standards for security certifications**
- **The new environment and challenges of IT products certification at an international level ,**
- **Next security certification approaches and cases : application to OSS scenario from there setting up of virtual certification facility for OSS in DRM, telecommunications and embedded systems scenarios.**

***Key topics:*** **Certification techniques – Common Criteria – VSE – Open Source Software**

### *Sept. 19*

9.00 am – 9.30 am

Module presentation: introduction *Chair Prof. Ernesto Damiani, Full Prof. at Department of Information Technology, Università degli Studi di Milano*

9.30 am – 11.00 am

Formal methods and open source certification *Luis Barbosa, Associate Professor at Departamento de Informática, Universidade do Minho*

11.30 am – 1.00 pm

Test base software certification *Jan de Meer, Head of Embedded Systems Engineering, Smart Space Lab*

2.30 pm – 4.30 pm

Case studies: IFSA, CCR-EAL *Chair Prof. Ernesto Damiani, Full Prof. at Department of Information Technology, Università degli Studi di Milano*

5.00 pm – 5.30 pm

Discussion and lessons learned *Chair Prof. Ernesto Damiani, Full Prof. at Department of Information Technology, Università degli Studi di Milano*

# Module 6 >>

# Near Field Communication (2 days)

## Sept. 18 & 19

Module designed and coordinated by Serge Miranda, Professor, University of Nice Sophia Antipolis (France)

**Near Field Communication (NFC) is a new short-range wireless connectivity technology with high expectations for innovative information services that emerged from the combination of contactless identification (RFID Radio Frequency Identification) and cell phones. NFC was launched on 2004 by Philips (NXP), Sony and Nokia.**

**NFC can be used with a large variety of devices for touching connectivity: consumer electronics, mobile devices, and PCs. Consumers will be able to easily access a variety of services (payment, transport, travel, infotainment, culture,...) and conveniently exchange information with a simple touch gesture utilizing NFC technology. This module aims to deal with the following topics: market issues and forecasts, overview og major NFC deployments, key technologies and standards, interoperability, architecture and developments, applications & services, and academic NFC projects.**

***Who should attend:*** **Marketing managers, Project managers, mobile operators, service providers**

***What you will learn:*** **This module aims to deal with the following topics: market issues and forecasts, overview og major NFC deployments, key technologies and standards, interoperability, architecture and developments, applications & services, and academic NFC projects.**

***Key topics:*** **Communicating objects - standards – architectures – industrial overview**

### *Sept. 18*

9.00 am -12.30 am

Strategic vision on wireless information services of the future integrating communicating objects (RFID , NFC, captors/sensors, ...)

***Serge Miranda****, Professor, University of Nice Sophia Antipolis*

- Major trends : BIP, TAG, AVI S, ...
- Convergence: IP, Multimedia, mobiles
- Communicating objects and their integration in added-value information services (fast and simple): touch based and location based
- 1DL ive demos (art) and videos on POC projects developed at the University of Nice in the area of Health, Travel, m-Payment, fair trade and cars

2.00 pm – 5.30 pm

NFC standards and NFC Forum

***Thomas de Lazzari****, NFC Project Manager and Winner (City Life category) of the NFC Awards 2007*

- Radio Frequency Identification (RFID ) NFC and Touch based services from an architectural point of view
- Contactless 13,56Mhz, Type A, B and Sony
- Mifare, Felica, Topaz formats
- NFC market and availability
- Complementarity with Bluetooth
- Security SIM /Smart card
- Interoperability, standards, GSM association and ETSI vision

### *Sept. 19*

9.00 am -12.30 am

Architecture and development kits JAVA/J2ME prerequesite

***Thomas de Lazzari****, NFC Project Manager and Winner (City Life category) of the NFC Awards 2007*

- Development kits (SDK) and JSR 257
- Development platforms
- An application development example on the new Nokia 6131
- Reading and Writing an NFC tag
- Present issues in NFC application development (certification, ...)

2.00 pm – 5.30 pm

Two industry round tables

***Pascal Verveur****, Orange -* ***Richard Savornin****, Amadeus -* ***Laurent Barnier****, NXP*

Moderator: Serge Miranda

- NFC : New services and integrators
- The future of NFC by the key players

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# At a glance

e-Smart | World e-ID | Smart mobility | Smart University

# Smart Event '08

September 16-19, 2008 – Sophia Antipolis, French Riviera

## September 16

| | Parallel meetings & workshops | | Smart University |
|---|---|---|---|
| morning | EuroTRUSTAml<br>♦Opening – European Commission Keynote Thomas Skordas, deputy Head of the Security Unit, DG INFSO/MEDIA<br>♦Dissemination: 8 European Projects | Gemalto Innovation Forum | ♦The Art of Java Card 3.0 programming<br>♦Identity Management<br>♦Smart Card & Mobile Telecoms<br>♦Secure Devices: Smart Cards, RFID Tags and Pufs |
| afternoon | EuroTRUSTAml<br>♦Dissemination: 6 European Projects<br>♦Panel Debate: European Research towards Trusted Ambient Intelligence – Next issues | Gemalto Innovation Forum | ♦The Art of Java Card 3.0 programming<br>♦Identity Management<br>♦Smart Card & Mobile Telecoms<br>♦Secure Devices: Smart Cards, RFID Tags and Pufs |

## September 17

| | e-Smart, Smart Mobility, World e-ID | | | Smart University |
|---|---|---|---|---|
| morning | ♦Opening – Plenary session<br>CEOs present their visions and perspectives in mobility and trusted technologies & services | | | ♦The Art of Java Card 3.0 programming<br>♦Identity Management<br>♦Smart Card & Mobile Telecoms<br>♦Secure Devices: Smart Cards, RFID Tags and Pufs |
| afternoon | **Parallel meetings** | e-Smart | Smart Mobility | World e-ID |
| | EuroTRUSTAml<br>♦Dissemination: 6 European Projects<br>♦Cooperation workshop | ♦ High density SIM Cards<br>♦ Contactless wave: NFC & RFID | ♦ Technologies & Infrastructures<br>♦ Telecom, Media & Content Services | ♦ e-ID Globalization: Standardization - Large scale - Regional Strategies |

## September 18

| | Parallel meetings | e-Smart | Smart Mobility | World e-ID | Smart University |
|---|---|---|---|---|---|
| morning | Euro TRUSTAml<br>♦The making of Serenity – Part.1 | ♦Recent Innovations in Smart Security Software Platforms<br>♦Security – Smart Security Innovations | ♦Smart Mobility Security<br>♦Smart Mobility & Transport Services | ♦ e-ID Innovation: Applications - Technologies | Security Certification of Software Systems ♦Near Field Communication |
| afternoon | ♦The making of Serenity – Part.2<br>♦Serenity closing panel | ♦Recent Innovations in Smart Security Software Platforms (continuing)<br>♦Security – Needs for Trust | ♦Enhancing Smart Mobility Security with Smart Security Devices<br>♦Technology Trends & Innovations | ♦ e-ID Innovation: Applications - Technologies (continuing) | Security Certification of Software Systems ♦Near Field Communication |
| | | **Common panel discussion e-Smart & Smart Mobility:** *Towards Trusted Convergence?* | | **Panel discussion:** *New prospects on European e-ID interoperability* | |

## September 19

| | e-Smart | Smart Mobility | World e-ID | Smart University |
|---|---|---|---|---|
| morning | ♦Java ♦Security ♦Needs for Trust (continuing) ► ♦Beyond Smart Security | ♦Smart Mobile Payment & Banking Services | ♦ e-ID Deployment | Security Certification of Software Systems ♦Near Field Communication |
| | **End of e-Smart, Smart Mobility, World e-ID** | | | Lunch for Smart University attendees |
| afternoon | | | | Security Certification of Software Systems ♦Near Field Communication |

Further adjustments may occur on each program of the Smart Event. Look regularly at the websites for updates:
♦ Portal Smart Event: www.smart-event.eu ♦ e-Smart: www.e-smart.eu ♦ World e-ID: www.worlde-id.eu ♦ Smart Mobility: www.smart-mobility.eu

# Strategic & Institutional Partners

Strategic Partners

gemalto
security to be free

Gemalto is the leader in digital security with pro forma 2007 annual revenues of over €1.6 billion, more than 85 offices in 40 countries and about 10,000 employees including 1,300 R&D engineers.
In a world where the digital evolution is increasingly transforming our lives, Gemalto's solutions are designed to make personal digital interactions more convenient, secure and enjoyable.
Gemalto provides end-to-end digital security solutions,from the development of software applications through design and production of secure personal devices such as smart cards, SIMs, epassports, and tokens to the management of deployment services for its customers. More than a billion people worldwide use the company's products and services for telecommunications, financial services, e-government, identity management, multimedia content, digital rights management, IT security, mass transit and many other applications.
As the use of Gemalto's software and secure devices increases with the number of people interacting in the digital and wireless world, the company is poised to thrive over the coming years. Gemalto was formed in June 2006 by the combination of Axalto and Gemplus.
**For more information, please visit www.gemalto.com**

Microsoft

A powerful transformation is on the horizon for government and public services organizations. The technology investment decisions made by government organizations today and in the next few years will change the face of administrations and service delivery and alter the competitiveness of entire economies for decades. Governments are sharply focused on the converging economic costs of aging populations, red tape, tax avoidance & benefits fraud. They are challenged to manage the future budget impact of these converging socio-economic forces. For the first time, populations will be more old than young. This factor will require a broader range of services over a longer period paid for by a smaller taxpayer base. In addition, escalating tax avoidance and benefits fraud add to the pressure to protect the revenue base. As a result, there is a common theme emerging around the world. What role can technology play in helping government achieve the necessary policy outcomes of improved service delivery, help drive increase tax revenues base, reduce the incidence and impact of the informal economy in emerging markets, while at the same time strengthening transparency. As a leading provider of technology, Microsoft strongly believes that software and a connected infrastructure is a critical foundation to address these policy challenges and we proposes that the value and merits of a robust, predictable and interoperable platform will help governments worldwide achieve economy-wide efficiencies. This vision, demonstrated through the descriptive Connected Government Framework (CGF), is taking hold though the establishment of a global Public Services and eGovernment strategy focused on strategic solutions supporting the core functions of government. Technology has evolved beyond being a 'factor of production' to being one of the most powerful policy levers available to government. Founded in 1975, Microsoft (Nasdaq "MSFT") is the worldwide leader in software, services and solutions that help people and businesses realize their full potential.
**For more information, please visit www.microsoft.com**

Institutional Partners

EUROSMART
The Voice of the Smart Security Industry

Eurosmart is an international non-profit association located in Brussels and representing 25 companies of the smart security industry for multi-sectors applications. Founded in 1995, the association is committed to expanding the world's smart secure devices market, developing smart security standards and continuously improving quality and security applications.
Manufacturers of smart cards, semiconductors, terminals, equipment for smart cards system integrators, application developers and issuers gather and work into dedicated working groups on communication and marketing, security, electronic identity and new form factors, and prospect emerging markets. Members are largely involved in political and technical initiatives as well as research and development projects at the European and international levels Eurosmart is acknowledged as representing "the Voice of the Smart Security Industry".
**For more information, please visit www.eurosmart.com**

ETSI
20TH 1988 - 2008 ANNIVERSARY

ETSI is officially responsible for standardization in Information and Communication Technologies (ICT), including telecommunications and broadcasting.
The Institute plays a major role in global standardization, uniting almost 700 member organizations from 62 countries, including manufacturers, network operators, administrations, service providers, research bodies and user representatives - in fact, all the key players in the ICT arena.
ETSI's prime objective is to support global harmonization by providing a forum in which all the key players can contribute actively.
**For more information, please visit www.etsi.org**

Smart University

## How to register?

- on-line registration through our e-commerce platform and secure payment

  **www.smart-university.eu**

- by fax or mail:
  Strategies Telecoms & Multimédia
  3, allée des Tilliers
  93100 Montreuil-sous-Bois – France

  **Fax n°: + 33 1 70 07 05 05**

- by email to:

  **lperron@strategiestm.com**

STRATEGIES
Telecoms & Multimedia

Strategies Telecoms & Multimedia is an approved training organization (n°11930503193).

The training will be held at the Agora Einstein Conference Centre – 905, rue Albert Einstein – 06152 Valbonne, France. An invitation together with all useful information will be sent to you before the event. There will be one bus on mornings to drive delegates from hotels to conference center and on evenings to go back to hotels.

This brochure is not a contractual document.

The Organizer reserves the right to change the program or the identity of the speakers.

| | Smart University | | Full Event Package [1] |
|---|---|---|---|
| Registration rates in euros without VAT * | 2 days (Choose 1 module only) | 4 days (Choose 2 modules, one on Sept. 16-17 and one on Sept.18-19) | Smart University and any combination of e-Smart, World e-ID & Smart Mobility |
| Loyalty Discount [2] **– until June 10, 2008** | 540 € | 825 € | 825 € |
| Standard Pass | 880 € | 1 320 € | 1 320 € |
| Early Bird **– until June 10, 2008** | 770 € | 1 155 € | 1 155 € |
| Associate Members - Sponsors [3] | 660 € | 990 € | 990 € |
| Academics & Non Profit | 500 € | 750 € | 750 € |
| Full Board Academics & Non Profit **– until Aug. 15, 2008** | 730 € [4] | 1210 € [5] | 1210 € [5] |
| Full-time Students [6] | 250 € | 500 € | 500 € |

* European Community members are submitted to VAT (19.60 %)
Non European Community members are not submitted to VAT

**The fee includes lunch and coffee breaks, admission to the exhibition area, the CD-rom of proceedings which are given to each participant.**

[1] Each registered participant to Smart University has the opportunity to register for e-Smart, World e-ID and Smart Mobility conferences with an important discount on the regular rates. The conferences Proceedings cd-roms are not included and are proposed at 75 euros instead of 115 euros (before VAT) until Sept. 15

[2] Loyalty Discount: Any delegate to the previous editions of e-Smart, World e-ID, AmI.D, Smart University can apply for the "Loyalty Discount" registration rate

[3] Members from the endorsing organizations of Smart University, e-Smart, World e-ID and Smart Mobility. Are qualified for these preferential rates: CNAM (France), INRIA (France), Katholieke Universiteit Leuven (Belgium), University of Malaga (Spain), University of Milan (Italy), University of Louvain-la-Neuve (Belgium), University of Nice Sophia-Antipolis (France), CATTID - University of Rome "La Sapienza", German Research Center for Artifical Intelligence (Germany), Minho University (Portugal), eForum, Eurosmart, GlobalPlatform, Java Card Forum, Silicon Trust, Smart Card Forum of China

[4] 2 nights & dinners Sept.15 & 16

[5] 4 nights & dinners Sept. 15, 16, 17 & 18

[6] Student card to be shown