CARDIS'06

Tarragona, CAT, Spain
April 19-21, 2006

WG8.8 – Smart Cards
WG11.2 – Small System Security

The **7th Smart Card Research and Advanced Application IFIP Conference**, organized by IFIP Working Groups WG 8.8 and WG 11.2, will be held in Tarragona, Catalonia, Spain, April 19-21, 2006.

Since 1994, CARDIS is the foremost international conference dedicated to Smart Card research and application. Every two years the scientific community congregates to present new ideas and to discuss recent developments. Also 2006, thirty eight years after Jürgen Dethloff and Helmut Grötrupp filed their idea of incorporating an integrated circuit in an identification card, CARDIS'06 will bring together leading researchers and practitioners in the development and deployment of state of the art Smart Card technologies.

The fast evolutionary process in the field of Information Security requires an adequate means to represent the human in the process of human-machine interaction. Smart Cards, or, by extension, smart devices with their processing power and their direct correlation to the user are considered to be the first choice. In rather young and new realms, such as Pervasive Computing, smart cards and devices face new challenges.

Today, the capabilities of smart cards and devices with their highly advanced specialized security features reach far beyond. They are the basis for many secure systems and play a decisive role in ID management. Established computer science areas, like hardware design, operating systems, modeling systems, cryptography or distributed systems have adapted to this fast growing technology and yield new application ranges and investigate emerging challenges for these domains.

Unlike events devoted to commercial and application aspects of Smart Cards, CARDIS conferences gather researchers and technologists who are focused in all aspects of the design, development, deployment, validation and application of Smart Cards or smart personal devices.

● **Conference General Chair**
Josep Domingo-Ferrer, *Universitat Rovira i Virgili, ES*

● **Program Committee Chair**
Joachim Posegga, *University of Hamburg, DE*

● **Program Committee**
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● **Advisory Committee**
José A. Delgado-Penín, *IEEE Spanish Section Chair*

Conference Scope

The program committee seeks papers describing the design, development, application, and validation of Smart Card technologies. Submissions across a broad range of Smart Card development phases are encouraged, from exploratory research and proof-of-concept studies to practical application and deployment of Smart Card technology.

Topics of interest include, but are not limited to:
- Smart Device, Person Representation and Ambient Intelligence
- Smart Device, Identity, Privacy and Trust
- Smart Card (Smart Device) and Applications in the Internet, WLAN, DRM, ...
- Smart Card and Smart Device software (OS, VM, API)
- High-level data model and management (On-card data sharing schemes)
- (Distributed) Application development and deployment
- From Smart Card to Smart Device (hardware, form factor, display)
- Biometrics and Smart Cards
- High-speed, small-footprint encryption
- Cryptographic protocols for Smart Cards (and Smart Devices)
- Attacks and countermeasures in hardware and software
- Hardware, software and service (application) validation and certification
- Formal Modeling
- Security of RFID systems
- Interplay of TPMs and Smartcards

Important Dates	
Abstract submission	**9 October 2005**
Full Paper submission	**16 October 2005**
Notification to authors	**30 November 2005**
Camera-ready	**15 January 2006**
Conference	**19-21 April 2006**

Instructions for Paper Submission

Submitted papers should represent novel contributions related to the topics listed above. They must be original, unpublished, and not submitted to another conference or journal for consideration of publication. Papers must be written in English; they should not exceed 16 pages in total. When appropriate, authors should arrange for a release for publication from their employer prior to submission. Papers accompanied by non-disclosure agreement forms will not be accepted. Accepted papers will be presented at the conference and published in the proceedings, which will appear in Springer's Lecture Notes in Computer Science and will be available at the conference. At least one author of each accepted paper is required to register with the conference and present the paper. Abstracts and papers must be submitted in electronic form using the conference tool setup for this conference (see submission section on **www.cardis.org**). To submit a paper, you must first register with the tool. After a successful registration you will be able to enter the abstract of your paper and categorize it according to the discussed area of research. Abstract information should be provided until October 9, 2005. Paper submission can be delayed but must be completed until October 16, 2005. If you experience any problems submitting your paper you may also use **submission@cardis.org**.

Only accepted formats are PDF and PostScript files which have to strictly follow the templates or style files indicated by the publisher (see submission section on www.cardis.org). Please preview the manuscript in a viewer to ensure its integrity before submitting. Make sure you visually check uncommon fonts, symbols, equations, etc.

Best Paper Awards: Awards will be handed over at the conference for the best paper and the best student paper.