

## Presentations of Master Projects in Embedded Systems Design

Date: Thursday, 15 July, 2010

Time: 9.00 - 12.30

Where: Università della Svizzera italiana, Via G. Buffi, 13 – Lugano (CH)

Presentation room: A11 – red university building, first level

Admittance is free

### Workshop Program

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#### 9.00 Welcome and Opening

Prof. Luigi Dadda, ALaRI President, and Prof. Mariagiovanna Sami, ALaRI Scientific Director, Università della Svizzera italiana

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#### Master of Advanced Studies: research project's presentation

#### 9.30 Guiding theme: *HW/SW for Advanced Applications*

Laser Tracking System (LTS) – *Daniel Kunz*

#### 9.37 Guiding theme: *Security*

Evaluation of negotiation protocol performances in a MANET scenario – *Massimo Chelodi*

Virtualization for Embedded Systems – *Enrico Congiu*

#### 9.51 Guiding theme: *Low Power*

Low power strategies for NoCs – *Gherardo Gorni*

#### 10.00 Guiding theme: *System Level Design*

Simulation Oriented Modelling of Sensors – *Andrea Malignaggi*

Distributed sensor network for engine health monitoring – *Matteo Bolognesi*

Design of a robust adaptation controller for self- adaptive streaming applications – *Aleksandra Jovanovic*

#### Master of Sciences: research project's presentation

#### 10.21 Guiding theme: *HW/SW for Advanced Applications*

Compressed Sensing for OFDM-Based Ultra Wideband Systems – *Tanish Agrawal*

Improving the Performance of Real Time Operating – *Vinay Patil*

Study and evaluation of irregular algorithms (Sub-quadratic Triad Census) on GPU's – *Varun Nagpal*

**10.45 Poster's Session - Coffee Break**

**11.00 Guiding theme: *System-On Chip***

Runtime OpenMP support using hardware primitives on explicitly memory managed multi-processor – *Pranav Tendulkar*

A Middleware for Self-adaptivity on Multi-processor Network-on-chip Platforms – *Erkan Diken*

Implementation of security services for NoC based MPSoCs – *Nikolaos Christianos*

**11.21 Guiding theme: *Security***

Cryptographics on GPUs– *Bruna D'Abrue*

A Framework for Security-Performance Trade-Off by Application Profiling and Adaptation Policies - *Luis Germán García Morales*

**11.35 Guiding theme: *Security for Mobile Systems***

Implementing hardware-assisted SELinux for embedded architectures– *Konstantinos Padarnitsas*

Extraction of Security Requirements From Embedded Applications – *Ekaterina Podryadchikova*

**11.50 Guiding theme: *System Level Design***

FPGA-based strategies for photoreceptor adaptation to naturalistic- *Ashraf El-Antably*

Model driven system engineering methodology for VPS design- *Igor Kaitovic*

Design, Implementation and Experimentation for Network-level Runtime Resource Management of Distributed Embedded Systems- *Ameya Tipnis*

**12.10 Keynote Speech**

"The challenge of a high-tech start-up"

Marco Brini, CEO and founder, EnvEve SA

**12.30 Closing Session: Diploma Ceremony**

Prof. Mariagiovanna Sami and Prof. Luigi Dadda – ALaRI

**Aperitif follows**