

CHALLENGES FOR CONNECTED AND EMBEDDED AUTOMOTIVE SYSTEMS CCEAS 2015

SCHOOL OF ENGINEERING - Università degli Studi di Pisa - Largo L.Lazzarino 1 – Pisa (Italy)

GENERAL INFORMATION

Foreword:

The conference is intended to be a forum of international level for information exchange, discussion, networking among players in these technologies. It is addressed to manufacturers, suppliers of components and systems, academia, public entities, decision makers engineers and scientists.

The Conference will assess the status and focus on the future of the Automotive industry, covering the following main areas:

- ✓ **INSIDE** the Vehicle: Embedded and control systems and infotainment
- ✓ **OUTSIDE** the Vehicle: A connected world

Conference Venue:

School of Engineering - Università degli Studi di Pisa - Largo Lucio Lazzarino 1 – Pisa (Italy)

Thursday 22 October

- ✓ 09.00 – 13.00 Opening Ceremony, First and Second Session “INSIDE the Vehicle”
- ✓ 14.00 – 17.00 Third Session “INSIDE the Vehicle” and First Session “OUTSIDE the Vehicle”
- ✓ After the closure of the Session, Conference Dinner and Social Event

Friday 23 October

- ✓ 09.00 – 13.00 Second and Third Session “OUTSIDE the Vehicle”, Conference Closing
- ✓ Commemoration of Prof. Pierangelo Terreni and Proclamation of the PhD Award in memoriam

Registration & Cancellation Policy:

You can register via email by compiling the attached Registration Form and sending it to movet@pont-tech.it or by compiling the on-line form at www.pont-tech.it/cceas2015

Refunds will be given to cancellations received in writing prior to 12 October 2015.

No refunds will be given after this deadline. Replacement delegates are welcome at any time.

Payment:

- ✓ by bank transfer to Pont-Tech - Banca di Pisa e Fornacette
IBAN: IT20B0856271131000010725463 - Swift code/BIC: BCCFIT33
- ✓ by cash at the reception desk

Other Information :

On-line proceedings

All the contributions accepted and presented at the Conference will be available to view on-line. Their access will be limited to the participants, by using a password that will be provided by email a few days after the event.

Accommodation

For organizational reasons, we would suggest to Delegates to book their accommodation in Pisa.

Language & Presentations

Presentations will be written and presented in English.



UNIVERSITÀ DI PISA



SCHAEFFLER



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CONFERENCE PROGRAM

Thursday 22 October

WELCOME ADDRESS & INTRODUCTION (09.00 – 09.30)

INSIDE THE VEHICLE: Embedded and Control Systems and Infotainment

Session In.1: Innovative electronics and mechatronics automotive components (09.30 – 10.30)

- ✓ **ams AG** ♦ P. D'Abramo ♦ Sensor solutions for smarter, safer and more eco-friendly vehicles - trends and challenges
- ✓ **Magna** ♦ M. Marlia ♦ Smart Latch: Trends and Challenges
- ✓ **Pierburg** ♦ A. Buccheri, R. Squarcini, A. Malvasi ♦ EOP (Electrical Oil Pump): a Mechatronic Device for CO2 Reduction

COFFEE BREAK

Session In.2: Model based design of embedded systems for vehicles (11.00 – 13.00)

- ✓ **Magneti Marelli** ♦ S. Armeni, W. Nesci ♦ Vehicle Dynamic Supervisor, a MBD approach on IMU Management - A use case on Inertial Measurement Unit Management for development of Virtual Sensors
- ✓ **Pitom** ♦ R. Mati ♦ From the early stage to the future of transportation
- ✓ **Pure Power Control** ♦ A. Balluchi ♦ Energy management system for off highway vehicles
- ✓ **Scuola Superiore Sant'Anna** ♦ M. di Natale ♦ Challenges in the model-based development of automotive systems
- ✓ **Tecnalia** ♦ A. Peña ♦ Development of an embedded system based on Zynq platform for an in-wheel motor vehicle

LUNCH

Session In.3: Embedded software and Infotainment systems (14.00 – 15.00)

- ✓ **BRIT** ♦ R. Provedel, L. Alpago ♦ Challenges for special vehicle Team: the HITV concept
- ✓ **Evidence** ♦ P. Gai ♦ Multi-OS: integrating control and infotainment for automotive systems
- ✓ **Politecnico di Torino** ♦ M. Violante, P. Massimino (Magneti Marelli) ♦ Multicore-based infotainment systems: opportunities and challenges

COFFEE BREAK

OUTSIDE THE VEHICLE: A Connected World

Session Out.1: Safety & Security (15.30 – 17.00)

- ✓ **Continental** ♦ F. Fabre ♦ Global Vehicle Cyber Security strategy @Continental in 2020
- ✓ **Intecs** ♦ J. Favaro ♦ Integration of Safety and Security in Automotive Electronic Systems
- ✓ **Magneti Marelli** ♦ C. Senni, W. Nesci ♦ Automotive Cyber Security transition
- ✓ **Yogitech** ♦ G. Sartori ♦ ISO 26262: state of the standard and new implications for safety and security

CONFERENCE DINNER & SOCIAL EVENT

Friday 23 October

OUTSIDE THE VEHICLE: A Connected World

Session Out.2: Smart Mobility & ITS (09.00 – 10.00)

- ✓ **Consorzio Nazionale Interuniversitario per l'Informatica** ♦ G. Anastasi ♦ ICT services for smart mobility
- ✓ **Kiunsys** ♦ F. Formosa ♦ Frictionless Driving. Bringing on board the urban access regulations for a seamless driving experience
- ✓ **Università di Firenze** ♦ F. Paganelli ♦ Vehicular Networks Evolution Driven by 5G Cellular Technologies and Novel Social Networking Paradigms

COFFEE BREAK

*Commemoration of Prof. Pierangelo Terreni
Proclamation of the PhD Award in memoriam*

Session Out.3: Green Vehicle (11.30 – 13.00)

- ✓ **Energica** ♦ G. Gherardi ♦ A Novel Electric Motorbyke Control System
- ✓ **Magneti Marelli** ♦ A. Nepote, G. Greco ♦ Vehicle Energy Harvesting – The regenerative shock absorber
- ✓ **Mecaprom** ♦ M. Pennese ♦ Concept Design of an Enhanced Series Hybrid Architecture
- ✓ **Università di Pisa** ♦ R. Saletti ♦ Electronic Management of Li-ion Battery-based Energy Storage Systems for Green Vehicles
- ✓ **VALEO** ♦ P. Tisserand ♦ Evolution of electrification in car for CO2 reduction with a focus on ICT/electronics

CONFERENCE CLOSING



**Centro di Iniziativa su Motori, Veicoli e Tecnologie
Center for Engines, Vehicles and related Technologies**

www.movet.org

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Phd AWARD

Within the CCEAS2015, MOVET is asking all PhDs that have obtained their degree in the last 4 years (2011-2015) or that are currently pursuing a PhD course to submit:

- A. An electronic copy of 1 scientific publication (journal or conference or book or the PhD thesis) produced as result of the PhD activity
- B. An abstract summarizing the title of their PhD thesis or PhD subject, the PhD program name, the Institution organizing the PhD program, the names and addresses of the PhD supervisors, all details (name, address, email and telephone contacts) of the author, details of the submitted publication

The above two items should be submitted via email to the address: movet@pont-tech.it

Deadline for submission: 14 October 2015

The field of interests are those related to vehicles, mobility and transport systems including both theoretical or experimental studies, with reference to all engineering branches (Industrial, Information, and Civil engineering) and also to legal, economical, management, communications, and social aspects.

A committee of experts from industry and academia, selected by MOVET, will evaluate the contributions and will notify the winner within 19 October 2015.

The author of the best contribution will be invited for an oral presentation during the conference and will be awarded with a 1,000 Euro prize.

During the conference the MOVET community will commemorate Prof. Terreni, the last Dean of the Faculty of Engineering in Pisa.

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CONFERENCE DINNER & SOCIAL EVENT

Social Event:

Visit of the exhibition Toulouse-Lautrec “Lights and shadows of Montmartre” (Palazzo Blu – Pisa)

Henri Marie Raymond de Toulouse-Lautrec-Monfa (24/11/1864 – 09/09/1901), also known as Henri de Toulouse-Lautrec was a French painter, printmaker, draughtsman and illustrator whose immersion in the colorful and theatrical life of Paris in the late 19th century yielded a collection of exciting, elegant and provocative images of the modern and sometimes decadent life of those times. Through its magnificent production of paintings, lithographs and posters, Toulouse-Lautrec has managed, more than anyone else, to describe and characterize a city, a life style, the colors of a whole generation and, more generally, the true lifestyle of late 19th century Paris, the Paris of the Moulin Rouge, Montmartre and the maisons fermées; that magnificent period between two centuries when the Ville Lumière was the undisputed world capital of art.

The Palazzo Blu exhibition is meant to represent the extraordinary human adventure and Lautrec art through the exhibition of paintings and drawings imported from relevant international private and public collections which consecrated the artist among the giants of European artists and paved the way towards modernity and towards the dissemination of advertising that, thanks to the French artist, becomes art. A great opportunity to admire the diversity and modernity of art by Henri de Toulouse-Lautrec.

Palazzo Blu (Pisa)

Palazzo Blu is a center for temporary exhibitions and cultural activities located in the Lungarno Gambacorti, in the heart of the historic center of Pisa, Italy. This museum is managed by the Fondazione Palazzo Blu, and is located in the Palazzo Giulio Rosselmini Gualandi, an ancient palace restored by the Fondazione Pisa. Its name comes from the blue color uncovered during an architectural recent restoration, and attributable to the taste of Russian owners who acquired the Palazzo in the eighteenth century.

The Palazzo Blu permanent exhibition is divided into three sections: the Fondazione Pisa collection, on the second floor, and the stately apartments and Simoneschi Collection (numismatics and antiquities) on the first floor. Some artists from the collections (from 300 and Renaissance to 1800 d.C.): Cecco di Pietro, Taddeo di Bartolo, Benozzo Gozzoli, Vincenzo Foppa, Aurelio Lomi, il Cigoli, Orazio Gentileschi, Artemisia Gentileschi, Giovanni Battista Tempesti, Jean Baptiste Desmarais, Giuseppe Bezzuoli, Luigi Gioli. From the rich collection of the twentieth century: Umberto Vittorini, Mino Rosi, Ferruccio Pizzanelli and Fortunato Bellonzi.

Annually Palazzo Blu hosts temporary and very important exhibitions.

Conference Dinner:

Following the visit of the exhibition, the dinner will be at **Lumière**.

The Lumière rooted to the origins of cinema in Italy. It was officially opened in December 1905 under the name “Primario Cinematografo Lumière”. The initial site was in the billiard room of the Caffè dell'Ussero Palazzo Agostini, on the Lungarno, where in 1899 began the first projections. At Lumière, in 1906, the first experiment of sound films was made by Peter Pierini professor at the University of Pisa. Damaged during the Second World War, the club was closed in 1944 and reopened in 1946 under the name “Supercinema”.

Palazzo Agostini, also known as Palazzo dell'Ussero or Red Palace is one of the most beautiful buildings of the Lungarni of Pisa and belongs to the family of the Counts Agostini Fantini Venerosi della Seta. The Lumière remains faithful to its vocation as a place of culture in the city's historic center and renews its tradition by its 50 square meters stage, equipped by a unique sound and lighting system, mixing performances and music events with love for good food.

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REGISTRATION FORM

(Please return this form to movet@pont-tech.it)

Attendee Information :

Surname _____
Name _____
Job Title _____
Company _____
Dept _____
Address _____
Post Code _____ / City _____ / Country _____
Phone _____
Mobile _____
E-Mail: _____

Conference registration :

(fees include: on-line presentations, lunches, coffee, congress event and dinner and 22% VAT)

Please check the appropriate category:

- ☐ Delegate _____ € 180,00
- ☐ Movet Member _____ € 130,00
- ☐ Student (undergraduate) _____ € 30,00 (congress event and dinner not included)
- ☐ Speaker _____ FREE
- ☐ Media _____ FREE (congress event and dinner not included)
- ☐ Additional ticket for congress event and dinner _____ € 60,00

I will attend the congress social event and dinner on Thursday 22 October ☐ YES ☐ NO

Invoice Information :

Company _____
Dept _____
Address _____
Post Code _____ / City _____ / Country _____
VAT Number (Compulsory for Italian and EC Companies) _____
Codice Fiscale (only for Italian Companies) _____
Account dept Phone _____ Account dept E-Mail: _____

In compliance with art. 7 of Italian law 196/2003, your personal data are used exclusively for processing the congress activities

Date.....

Signature.....



Movet aims

To reward and value the quality of scientific, technical and industrial capability and skills existing in Tuscany in the automotive sector

To support and enhance the innovation and the research in the Industry of Vehicles, Engines, Mobility Systems and related Technologies

To create a high level education system for the automotive sector

Movet Network

SAE - Society of Automotive Engineering / SETC Committee

ATA - Associazione Tecnica dell'Automobile

ANFIA - Italian Association of the Automotive Industry

PVF - Pole Vehicule du Futur Alsace - Franche-Comté

EEO - European Electromobility Observatory

HYER - Hydrogen Fuel Cells and Electro-mobility in European Regions

EARPA - European Automotive Research Partner Association

EGVIA - European Green Vehicle Initiative Association

ERTRAC - European Road Transport Research Advisory Council

MOVET supported the Tuscany Region in a Industrial foresight Program aimed to make more effective the Structural European Funds (Smart Specialization Strategy)

Movet Today

In October 2013 Movet Founding Members decided to establish and setup a permanent non profit organization to coordinate and increase the activities related to the promotion of innovation and research in the Automotive Industry and related Technologies in Tuscany.

15 Industrial Partners

CONTINENTAL AUTOMOTIVE ITALY
DIELECTRIK
EDI PROGETTI E SVILUPPO
EVIDENCE
INTECS
KIUNSYS
MAGNA CLOSURES
MITSUBA ITALIA
PASSAPONTI METAL CLEANING TECHNOLOGY
PIERBURG PUMP TECHNOLOGY ITALIA
PONTLAB
PURE POWER CONTROL
SCHAEFFLER ITALIA
TECNALIA ITALY
VVN
YANMAR R&D EUROPE

Movet Today

5 University Departments

DIP. TECNOLOGIE E PROCESSI UNIV. G. MARCONI
DIP. ING. CIVILE INDUSTRIALE UNIVERSITA' DI PISA
DIP. ING. ENERGIA, SISTEMI, TERRITORIO E COSTRUZIONI UNIVERSITA' DI PISA
DIP. ING. INDUSTRIALE UNIVERSITA' DI FIRENZE
DIP. ECONOMIA E MANAGEMENT UNIVERSITA' DI PISA

3 R&D Centres

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