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CALL FOR PAPERS

International Conference and Exhibition

CESA 4.0 Automotive electronic systems



PARIS / BEFFROI DE MONTROUGE, FRANCE
16 & 17 November 2016



FILIÈRE
AUTOMOBILE
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CESA 4.0 > AUTOMOTIVE ELECTRONIC SYSTEMS is under preparation...

The next edition of our successful conference on automotive electronics, CESA 4.0. will take place on 16 and 17 November 2016.

The aim of CESA is to bring people from different backgrounds together to talk about today's automotive electronics as well as future trends and technologies. We will look **beyond the geographical horizon of our export markets and beyond the automotive technological horizon of connected and automated driving.**

Organized by the French Association of Automotive Engineers (SIA) and strongly supported by the French Automotive Industry (PFA), this year CESA will focus on **Electrification, Automated Driving and the transfer of knowledge from the electronics industry to automotive applications.**

We will again welcome many top speakers from OEMs (from France, Germany and elsewhere in the world), all major suppliers to the car industry and also representatives from other industries active in the factory 4.0.

Besides industrials we will also show some of the young Institutes of Technology created here in France recently, in particular VEDECOM and IRT SystemX.

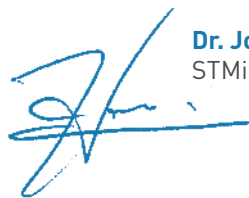
With the help of our sponsors and the partners of our dedicated exhibition we will facilitate networking between main actors in the market. As with previous editions, we develop specific partnerships with a country that is important for automotive electronics. **After Austria and Germany for the first editions, we have chosen to highlight Asia for 2016.**

Top speakers are expected such as engineering directors from French OEMs, as well as from foreign countries. At the last edition, more than half of the visitors travelled from locations other than France to Paris.

Link to other industries, such as Industry 4.0. focusing on the example of automated driving, there are already solutions available in agriculture or factory automation that demonstrate the highest levels of autonomy.

At the same time, usage of data and services in a cloud environment is becoming standard for office management and will certainly also influence the automotive industry.

"We are counting on you all to make CESA conference a big success"



Dr. Jochen Langheim, Conference Chair
STMicroelectronics



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TOPICS TO BE ADDRESSED

During the conference we intend to focus on a certain number of items which are listed below.

For these items we are looking for contributions and would like to ask you to send your abstracts as soon as possible to pauline.senis@sia.fr, by **7 April 2016**.

• Trends in mobility and behavior - use of cars and transportation

- Car sharing and alternative transport solutions
- Multi-Modality, Mobility Services
- New actors from Internet and car-sharing
- Infrastructure / smart grid / fleet management / charging stations / app-usage / cloud
- Maintenance and Diagnostics, consequences for garages

• Power supply and energy Mix for mobility, today & tomorrow

- Energy transition, pollution, exhaust technologies
- Hybridization, EV, status update
- Incl. 48V status, higher voltages, fuel cell / hydrogen
- Off board charging stations / infrastructure, Grid integration of EVs

• Electrification trends in vehicles

- Options for Wiring – Reduction, new signal connectivity, wireless (basic / coax cables)
- Trends and Requirements for connectivity (new connectors, optical, wireless, mixed, etc.)
- EMC/ESD Technologies in Design
- Validation, Test and need for standards
- Maintenance Trends and new partnerships among stakeholders (OEM, TierX, Service shop, Customer)

• Highly Automated, Connected, Safe & Secure Driving

- Sensors & Actuators
- Car-2-X / & positioning
- Data privacy, (certifiable) security of communication

- Standardization / Regulation / Legal aspects / Responsibility in the supply chain aspects / Influence of new technologies on architectures

- Test and validation

- Crowd Data Applications/ cloud validation

- The importance of precise map data and positioning

- IoT / AIOTI & smart mobility

- HMI issues – opportunities and risks for customer acceptance

- PLM

- Artificial intelligence

• Key Technologies in Semiconductor and Electronic Systems for future mobility

- Update on new power electronics technologies (SiC, GaN)
- Synergies between Consumer and Automotive Electronic (and differences)
- IoT applications coming into the car
- New Materials and processing technologies

• Industry 4.0 and other domains applying highly automated transportation

- What has automated driving with Industry 4.0 in common – lessons learnt about autonomous driving from factory equipment and robotics
- Harbortment
- Agricultural experience
- Trucks and Buses
- Industry 4.0 and connectivity in cars
- 3D printing – fast Prototyping for Demonstrators or solution for individual customer needs will 3D printing change the chances for new car concepts?

Based on your feedback we will give CESA the final shape with keynotes, paper and poster presentations and round table discussions.

SUBMISSION INFORMATION

Experts in the topics mentioned above who would like to take part in this conference are invited to submit their abstracts by **7 April 2016**. Please use the attached submission form and send it to pauline.senis@sia.fr

- Conference language: English only (no simultaneous translation)
- All necessary instructions for the preparation of the paper will be sent to the selected authors
- The authors will have to submit a paper for inclusion in the conference proceedings

The committee will select the most promising papers to be published in the magazine *Ingénieurs de l'Automobile*



EXHIBITION & SPONSORSHIP

An exhibition will take place near the conference rooms during the 2 days of the conference. This exhibition will allow you to inform the participants, to present your new products or solutions and to make privileged contacts at this unique gathering of target decision makers.

BECOME A SPONSOR! Maximize your visibility by becoming a sponsor: with a corporate sponsorship, you gain unmatched recognition as an industry leader and generate an abundance of goodwill.

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		SMEs* PFA PME AUTOMOBILE & MOBILITES	Standard	Bronze	Silver	Gold	Platinum
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	Half congress – 1 day	2	4	6	10	16	
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Advertising in the book of conference		-	-	½ page	½ page	Full page	Full page
Advertising in the programme		-	-	-	½ page	½ page	Full page
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Announcement as the major sponsor		-	-	-	-	-	x
Preferential placement in the exhibition		-	-	-	-	-	x
Extra badges				300€			-

*This offer is reserved to the small firms which attend to the Pitch PME session organized by the PFA

**Reserved for company staff members only - A nominative list of attendees will be required 14 days before the conference - Attendees must precise when they intend to come to the congress, and must be equally divided between day 1 and day 2.

Do not miss the opportunity to advertise in the congress documents: a portal to leading decision-makers in the automotive industry.

RATES (exc. VAT)	Back cover	Inside	Inside front cover	Inside back cover
Programme (sent once by mail and several times by e-mail)	1 300 €	950 €	1 100 €	1 100 €
Book of Conference (Distributed to all attendees)	1 300 €	950 €	-	1 100 €
Insertion of company booklet in the conference bags			1 000 €	
Cords and badges with your logo			700 €	
Conference bag with your logo			700 €	



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SUBMISSION FORM

→ Send your abstract to pauline.senis@sia.fr by 7 April 2016

The authors

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REGISTRATION FEES FOR SPEAKERS (one per presentation): 90 € VAT Excl.
CO-AUTHORS: 290 € VAT Excl.

The abstract

- **Topics classification**

- ☐ 1. Trends in mobility and behavior - use of cars and transportation
- ☐ 2. Power supply and energy Mix for mobility, today & tomorrow
- ☐ 3. Electrification trends in vehicles
- ☐ 4. Highly Automated, Connected, Safe & Secure Driving
- ☐ 5. Key Technologies in Semiconductor and Electronic Systems for future mobility
- ☐ 6. Industry 4.0 and other domains applying highly automated transportation

- **Résumé**

Title of paper:

Abstract (max. 1500 characters):

Relevance and innovation of your presentation:

Comments: