CALL FOR PAPERS

www.fisita2012.com

FISITA 2012 World Automotive Congress
27th-30th November, 2012 Beijing, China

Automobiles and Mobility in a Low Carbon Economy — China and the World
The Society of Automotive Engineers of China (SAE-China) is proud to host the 34th FISITA World Automotive Congress in Beijing, from 27th-30th November 2012.

The world automotive industry must address the opportunities and challenges of a low carbon economy. The key differentiator tomorrow will be technical excellence. FISITA 2012 Congress will demonstrate the important role and creative power of engineers world-wide to solve current and future challenges facing society.

FISITA 2012 will focus on solutions for sustainable mobility in all areas of passenger car, truck and bus transportation. Emphasis will be placed on the development of future powertrain systems, advanced internal combustion engines, energy efficient transmissions & drivelines as well as vehicle design, electronics, safety solutions, NVH and manufacturing. Special attention will be devoted to the cross sectors areas, ITS and internet of vehicles.

A new highlight of the Congress is the Special Session, which is tailored to specific topics, research studies and projects being carried by governments, industry or academia concerning automotive leading edge technology. Various subjects will be presented and intensively discussed. These sessions will also provide special focus on executive topics, such as automobiles and society, emerging markets including the host country, China, etc.

We sincerely welcome auto engineering technical experts and scholars from all over the world to contribute to the success of the Congress.
We call for papers on the following topics

I. Advanced Internal Combustion Engines
- New GDI, SI & CI Engines and Components
- Fuel Injection and Sprays
- Fuel & Lubricants
- After Treatment and Emission Control
- Flow and Combustion Diagnosis
- Engine Design & Simulation
- Heat Transfer & Waste Heat Reutilization
- Emission Standards and International Regulations

II. Future Automotive Powertrain
- Alternative Fuel and New Engine
- Advanced Hybrid Electric Vehicle
- Plug-in Electric Vehicle
- Advanced Battery Technology
- Hydrogen Fuel Cell Vehicle
- Charging Infrastructure and Smart Grid Technology
- Demonstration of Electric Vehicles in Cities

III. Advanced Transmission System and Driveline
- Clutch Systems & Controls
- Gear Systems & Driveline
- Advanced Transmission System
- Transmission Control System

IV. Vehicle Electronics
- Engine/Chassis/Body Electronic Control
- Electrical & Electronic System
- Software & Hardware Development
- Electromagnetic Compatibility (EMC)
- Vehicle Sensor & Actuator
- In-Vehicle Network
- Multi-Media/Infotainment System

V. Vehicle Design and Testing
- Vehicle Performance Development
- Vehicle Integration Platformized and Universal Design
- Development of CAD/CAE/CAM and CF Methods in Automotive Practice
- Advanced Chassis, Body Structure and Design
- Automotive Ergonomic, Interior & Exterior Trim Design
- Vehicle Style and Aerodynamic Design
- New Materials and Structures
- Automotive Reliability Technology
- Lightweight Design Technology
- Design for Recycling
- Dynamic Modeling
- Simulation and Experimental Validation
- Virtual Design, Testing and Validation
- Testing of Components, Systems and Full Vehicle
VI Automotive Safety Technology
Automotive Structure Crashworthiness
Occupant & Child Safety Protection
Pedestrian Protection
Crash Biomechanics
Crash Pre-Judge Technology/Traffic Accident Analysis and reconstruction
Crash Compatibility
Driving Action Perception & Safety Assistance System
Vehicle Controls on Handling and Stability
Safety Standards, International Regulations

VII Advanced Vehicle Manufacturing Technology
Applications of Aluminum, Magnesium and Zinc Alloys, Composites
Advanced Body Manufacturing Technology
Body Corrosion Protection Technology
Welding, Joining & Fastening
Casting Technology
Stamping Technology
Paints, Polymers & Coatings
Exterior Body Panels
Advanced Process Management

VIII Chassis Systems & Integration Technology
Chassis Structure and Design
Chassis Controls & Integration
Tire and wheel Design/Tire Properties and Modeling
Subjective and Objective Evaluation on Dynamic Performance
Dynamics Modeling, Simulation and Experimental Validation

IX ITS & Internet of Vehicles
Driver Assistance System
V2X Communication Technology
Telematics, Navigation Systems
Eco Driving Technology
Harmonization and Regulation of ITS Systems

X Noise, Vibration & Harshness (NVH)
Chassis Vibration & Noise Control
Transmission Vibration & Noise Control
Engine Vibration & Noise Control
Body Vibration & Noise Control
Vehicle Vibration & Noise Control
Analysis and Evaluation of In-Car Vibration & Noise
Wind Noise Control Technology
Vibration & Noise Testing Technology
Technical Paper Submission

You are invited to submit your abstracts on-line at www.fisita2012.com before 30th November 2011.

FISITA 2012 Requirements for Extended Abstracts
- 1 x A4 page, approximately 500 words include spaces;
- Font Arial 10, single line spacing;
- No figures preferred, but can be included if essential;
- Exclude Personal Information;
- Official language: English.

Information such as the author, what topic the paper is submitting for, will be required on the website.

The following headings should be included in the abstract:
- Paper Title;
- Research and/or Engineering Questions/Objective (max. 100 words);
- Methodology (max. 150 words);
- Results (max. 150 words);
- Limitations of this study (max. 100 words);
- What does the paper offer that is new in the field in comparison to other works of the author (max. 100 words);
- Conclusions (max. 100 words).

The Scientific & Technical Committee will decide whether to accept a paper for oral or poster presentation on the basis of the abstract. Authors should pay particular attention to those aspects of the work which are new, innovative and unique. The committee will accept papers for oral or poster presentation taking into account the number of abstracts received in each subject group and the originality of the paper.

Oral presentations at the congress are restricted to 20 minutes each, plus discussion. Poster authors will be offered 5 minutes to give a brief introduction about their paper in a relevant oral session.

Only papers presented by their authors at the congress will be published in the Congress Proceedings, which will receive an official ISBN code.

All the authors whose papers are accepted will be offered preferential registration fees.
Organize a Special Session

The Organizing Committee of FISITA 2012 would like to offer a new opportunity to participants and welcome your proposals for, Special Sessions, where delegates can get together and discuss recent interesting issues with related specialists.

The Special Sessions will address specific topics, research studies and projects being carried by governments, industry or academia in the field of automotive technology. Each session will concentrate on its own specific topic and will offer participants interested in that particular subject the opportunity to engage with the experts.

You will be requested to provide the following information:
- Proposed session title;
- Organizer’s information, including name, job title, company and country;
- Proposed moderator’s information (can be the same person as the organizer);
- Information of 4-5 potential speakers;
- 200-300 words description of session content;
- Proposed time duration, one slot (1.5 hours) or 2 slots (3 hours) are recommended.

The organizers of Special Sessions who come from universities or institutes will be offered free registration to the Congress. The moderator and speakers will be offered preferential registration as the authors.

If a company is interested in organizing a Special Session, please refer to the Sponsorship brochure.

If you wish to organize a Special Session, please send an email before 30th November 2011 to:
Email: FISITA2012@sae-china.org
Tel: +86 10 6334 5809
Exhibition
The accompanying technical exhibition is an ideal occasion for you to present your products and services to an interested and qualified audience of specialists and decision-makers. The exhibition will be divided into several areas according to the themes: Energy Efficient Vehicles, Powertrain and Transmission, Key Components, Electronics, Material & Manufacturing.

Sponsorship and Advertising
If you are interested in sponsoring the FISITA 2012 World Automotive Congress or if you want to advertise in any of our congress publications we would be happy to present our sponsorship packages and advertising information to you. Please do not hesitate to contact us directly at fisita2012@sae-china.org.

Students and Young Engineers
The Student Congress and Travelling Fellowship Program will provide young automotive engineers with an invaluable experience. They will have opportunities to present their ideas and achievements to an audience of their peers. Special visits to automotive sites in China will be organized.

Technical Visits
Tours to various interesting automotive plants, institutes and transportation related sites will be offered on 30th November 2012.

Social Events
Whatever your interest, whether it’s architecture or history, nature, culture or technology – the social tours and events will offer delegates and accompanying persons a unique insight into Beijing and the surrounding area. The Gala Dinner and numerous receptions will provide an opportunity to foster and renew friendships with colleagues from around the world.

FISITA Islands of Excellence
FISITA is encouraging young scientists to take a visionary look into the future of automotive technology. Universities from around the world are invited to compete to win the chance to present their research projects at FISITA 2012. The best concept from each theme will be chosen by the Scientific & Technical Committee and will be demonstrated by the students themselves during the Congress in separate “Islands”.

Important Dates
- Deadline for Abstract Submission: 30th November 2011
- Notification of Paper Acceptance: 15th March 2012
- Preliminary Program: 30th April 2012
- Deadline for Manuscript Submission: 15th July 2012
We are looking forward to seeing you in Beijing in 2012.

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