

FISITA

2008

World Automotive Congress  
14 - 19 September, Munich, Germany



## The Future of Automobiles and Mobility

Call for Papers

[www.fisita2008.com](http://www.fisita2008.com)

Organised by VDI



# Our Challenges:

## Road Safety, Energy and Environment

Dear members of the automotive society,

The Association of German Engineers (VDI) is proud to host the 32<sup>nd</sup> FISITA World Automotive Congress in Munich, from 14-19 September 2008.

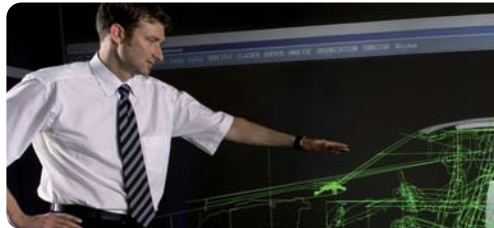
FISITA 2008 Munich will focus on solutions for sustainable mobility concepts for people and goods in all areas of passenger car, truck and bus transportation as part of total mobility concepts. Emphasis will be placed on the development of future powertrain systems, conservation of the environment and energy resources as well as new vehicle concepts, materials, electronics and essential improvements in vehicle safety. Special attention will be devoted to the product creation process - including virtual reality techniques, simulation and testing methods.



Dr. Akihiko Saito  
2006-2008 FISITA President



Dr. Michael Paul  
Congress Chairman



FISITA 2008 will demonstrate the important role and creative power of engineers world-wide to solve current and future challenges facing society.

# Submitting your paper

We invite papers on the following topics:

## Mobility concepts

- Contribution of vehicle intelligence (C2C)
- e-Safety
- Car to infrastructure (C2I)
- Integration in mobility concepts

## Man-Machine-Interaction

- Human capabilities and driving
- Driver assistance
- Human acceptance of driver assistance systems
- Human and information systems in automobiles

## Chassis development for passenger cars, trucks and buses

- Vehicle dynamics including driver assistance
- Chassis system integration
- Suspension parameter control
- Comfort assessment and improvement
- Suspension systems for trucks and buses

## Electronics

- Innovative electronics for powertrain, chassis, driver assistance and hybrids
- Energy management
- System architecture and bus systems
- Soft- and hardware development trends
- Process chains and quality
- International standardisation
- Production solutions
- Diagnosis, service and recycling

## Future powertrain solutions

- Strategy and engines for future fuels
- Fuel and CO<sub>2</sub> efficient powertrains
- Innovative engine and transmission systems
- Strategy for future ultra low exhaust emission limits
- Advanced fuel efficient and cost effective hybrid systems
- Fuel cell progress
- Downsized powertrains with high specific power
- Integrated systems for powertrain and vehicle electronics

## Resources and ecology

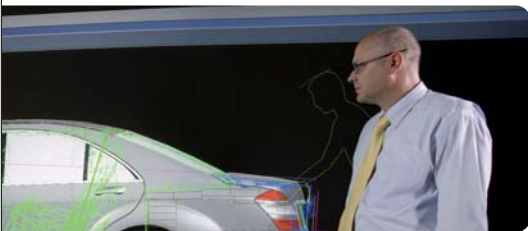
- Alternative fuel, CNG, synfuel
- Biofuels
- Hydrogen
- Well to Wheel analysis for different alternatives

## Vehicle concepts

- Vehicle concepts & requirements for passenger cars (package, material, assembly, modularisation)
- Vehicle concepts & requirements for trucks and buses (truck design in Europe/Asia/USA, city buses and coaches, transportation efficiency)

## Body design for passenger cars, trucks and buses

- Product development methods
- Modularisation
- Weight reduction
- Production
- Design
- Comfort and convenience





## Vehicle safety

- Accident analysis
  - Methodology and analysis tools
  - Assessment and analysis for accident causation
  - Injury patterns
  - Effectiveness of safety measures
  - Measures of emergency rescue
- Driver assistance
  - Accident avoidance
  - Car to car information
  - Electronic co-driver
- Advanced safety systems
  - Preventive safety systems
  - Pre-Crash
  - Integrated safety
- Occupant and partner protection
  - Advanced occupant protection in all accident modes
  - Pedestrian protection
  - Compatibility improvement



## Process challenges in changing economies

- Lifecycle evaluations including manufacturing, service and recycling
- Customer acceptance and revenue opportunities
- Comparison of different transportation systems
- Future challenges in Supply Chain Management
  - Logistics and flexibility as the supplier's key competencies
  - OEMs and suppliers facing new challenges such as road pricing, globalisation, fuel and taxes
  - New solutions for the global supply base
  - Build to order – taking the Dell-principle into SCM

## Virtual reality

- New fields of application for engineers
- High-end techniques for visualisation in the product development process
- Tools for interdisciplinary work

## Simulation & testing

- Strategies for application and interaction of innovative tools in the product development process
- New methodologies and tools
  - durability, stiffness and strength e.g. body, chassis
  - objective evaluation of subjective aspects
  - vehicle dynamics, ride and handling
  - active/passive safety, pedestrian protection
  - Electromagnetic Compatibility (EMC)
  - powertrain, system approach
  - vehicle energy management, incl. hybrid
  - testing facilities for driver assistant systems
- Holistic data management
- Safety requirements for testing facilities for alternative propulsion systems
- Harmonisation of test procedures according to international legislation
- Special applications and future topics

## Important Information

- You are invited to submit your abstract using the congress website [www.fisita2008.com](http://www.fisita2008.com). Your abstract should contain the following:
  - Title of the paper
  - Author and co-authors (incl. contact information)
  - Abstract (minimum 300 words, maximum 500 words) including illustrations
  - Details of any previous papers you have published on the same subject
- The Scientific & Technical Committee will decide whether to accept a paper on the basis of the abstract. Therefore your abstract should clearly set out the main scientific, technical, economic and/or practical points to be addressed in your paper. In particular, your abstract should indicate those aspects of the work which are new, innovative and unique.
- Paper presentations at the congress are restricted to 20 minutes each, plus discussion.
- Your paper must be written and presented in English. No translation will be provided.

## Congress Highlights

### 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. For further information visit [www.fisita2008.com/exhibition](http://www.fisita2008.com/exhibition).

### Sponsorship and Advertising

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### Students and Young Engineers

The Student Congress and Travelling Fellowship Programme will provide young automotive engineers with an invaluable experience. They will have opportunities to present their ideas and achievements. Special visits to automotive sites in Germany will be organized. To find out more about the programmes please visit [www.fisita2008.com/students](http://www.fisita2008.com/students).

### Technical Visits

Tours to various interesting automotive plants, institutes and transportation related sites will be offered on 18 and 19 September 2008.

### 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 Munich and its surrounding area. The Gala Dinner and numerous receptions provide an opportunity to foster and renew friendships with colleagues from around the world.

### Important Dates

- Deadline for abstract submission: **26 Oct. 2007**
- Notification of authors: **Feb. 2008**
- Deadline for final manuscript: **16 May 2008**
- FISITA 2008: **14 - 19 Sept. 2008**
- Start of Munich Oktoberfest: **20 Sept. 2008**

The preliminary congress programme with registration form will be published in February 2008.

We are proud to host the  
FISITA 2008 World Automotive Congress  
in Munich – the heart of Europe.



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Pictures:

ICM · Kongressaal 5 | **Tourismusamt der Stadt München** · Ulrike Kornfels, Stadtpanorama

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