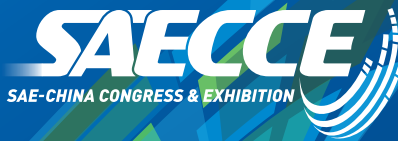


2017 APAC



19th ASIA PACIFIC AUTOMOTIVE ENGINEERING CONFERENCE 2017 SAE-CHINA CONGRESS & EXHIBITION

Creating the Automobiles and Mobility for the Future
October 24-26, 2017 Shanghai, China

CALL FOR PAPERS

Topics

Intelligent & Connected Vehicles Technologies
BEV / PHEV / FCEV Technologies
HEV Technologies
Internal Combustion Engine, Lubrication,
Environment and Emission Control
Advanced Transmission System and Driveline
Chassis Systems and Integration Technologies

Advanced Vehicle Manufacturing Technologies, Smart Plant & Equipment
Noise, Vibration & Harshness (NVH)
Advanced Vehicle Design, Simulation and Testing
Automotive Safety Technologies
New Materials and Lightweight Technologies
Vehicle Electronics Control Technologies
Technical Management

Important Dates

Deadline for Paper Submission: April 14, 2017

Website: www.apac19.com.cn

Organizers



中国汽车工程学会
Society of Automotive Engineers of China

Patronage of



Topics

1. Intelligent & Connected Vehicles Technologies

Intelligent on-board Terminal and Handy Terminal
Environment Perception and Positioning
Driver State and Behavior Recognition
By Wire Technologies
Advanced Driver Assistance Systems
Autonomous and Cooperative Driving
Telematics, Navigation System
V2X Communication and Vehicular Networking
Technology
Cloud Platform Technology
Connected Vehicle Cybersecurity Technology
Big Data and its Application for Connected Vehicle
Traffic Management and Control with Connected Vehicle
Modeling, Simulation, Testing and Evaluation
Technologies
Standards & Regulations
On-board Embedded Systems for Intelligent Vehicle
Planning, Deployment Guidance & Cost-benefit Analysis

2. BEV/PHEV/FCEV Technologies

Batteries and On-board Energy Storage
Fuel Cell and Systems
Motor and E-Drive Technologies
Power Electronics and Applications
Vehicle Control and Energy Management
Electric Vehicles
Fuel Cell Vehicles
Alternative Fuel Vehicle
Charging Technology and Infrastructure
Policy, Business mode and Marketing

3. HEV Technologies

Hybrid Electric Vehicles
Vehicle Control and Energy Management
Engine Technology for Hybrid Power
APU and its Control
Dynamic Coupling
48V System

4. Internal Combustion Engine, Lubrication, Environment and Emission Control

Advanced Diesel Engine Technology
Advanced Gasoline Engine Technology
Variable Valve Technology & Supercharging Technology
Hybrid Engine Technology (Range Extender & Hybrid Engine)
Fuel Injection and Sprays
Flow and Combustion Diagnosis
Engine Design & Simulation
New Concept Internal Combustion Engines
Heat Transfer & Waste Heat Reutilization
Fuel and Lubrication
key Components of Internal Combustion Engine
Engine Electronic Control & Testing Technology
Powertrain(Integration) Engineering Application
Technology
Engine Benchmarking Analysis
Gasoline After Treatment and Emission Control
Diesel After Treatment and Emission Control
Vehicle Interior Air and VOC Test and control
Emissions Test and Evaluation Technology for Hybrid Vehicle
Emission Control Technology for TGDI Engine
Emission Control Technology for Gas Engine
Fuel Quality and Pollutant Control Technology
End-of-life Dismantling Environmental Protection
Technology
OBD and Environment Protection Consistency Technology

Vehicle Emissions Inventory and Moves Emissions
Calculation Model
Emission Standards and International Regulations Study

5. Advanced Transmission System and Driveline

Transmission Scheme Design and Innovation
Transmission Technology for ICE (MT/AT/CVT/DCT)
Configuration of Hybrid and Electromechanical Coupling
Control of Hybrid
Transmission Technology for Purely Electrical Drive
Distributed Electrical Drive
Shift Control Theory and Shift Control Strategy
Test Technology for Transmission and Driveline
NVH Control for Transmission and Driveline
Powertrain Calibration and Performance Evaluation

6. Chassis Systems and Integration Technologies

Chassis Structure and Design
Chassis Controls and Integration
Dynamics Modeling, Simulation and Experimental
Validation
Subjective and Objective Evaluation of Vehicle Dynamics
Performance
Integration, Calibration and Evaluation of Vehicle
Dynamics Control
Control of Vehicle Dynamics Performance
Independent Suspension System & Non-independent
Suspension System
Tire and Wheel Design / Tire Properties and Modeling
Verification and Control of System and Component
Feature
Technology and Equipment of Vehicle Dynamics
Performance

7. Advanced Vehicle Manufacturing Technologies, Smart Plant & Equipment

Welding, Joining & Fastening
Casting Technology
Stamping Technology
Mold Design
Plastic and Composite Material Molding Technology
Super High Strength Steel Plate Forming Technology
Painting Technology
Trim and Chassis Technology
Machine Technology
Assembling Technology for Engine Assembly
Research and Application of Intelligent Vehicle Body
Welding Technology
Intelligent Vehicle Body Welding Equipment
Application of Intelligent Manufacturing Technology of
Carbon Fiber Components
Intelligence Casting Technology of Aluminum and
Magnesium Alloy
Aluminum and Magnesium Alloy Forging technology
Advanced Process Management
Detection and Measurement
Simulation Technology and Intelligent Manufacturing
Intelligent Solutions of Electric Drive System
Remanufacturing Technology
Design & Planning of Production Line
Automobile factory layout strategy
CNC Machine & Manufacture
Robotics and Automation
Digital Plant
Intelligent Design, Intelligent manufacturing and Intelligent
Factory Integration Technology Research

8. Noise, Vibration & Harshness (NVH)

Vehicle Vibration & Noise Control
Body Vibration & Noise Control

Chassis Vibration & Noise Control
Engine Vibration & Noise Control
Transmission Vibration & Noise Control
Air Intake System & Exhaust System Vibration & Noise
Control
Vibration Isolation Technology & Control
Electrical Vibration & Noise Control
Wind Noise Control Technology
Vibration & Noise Testing Technology
Sound Package Design & Development Technology
Tire Noise Control
Noise & Vibration Active Control
Vehicle Sound for Pedestrians

9. Advanced Vehicle Design, Simulation and Testing

Vehicle Performance Development
CAD/CAE/CAM/CFD Analysis and Optimization
Advanced Car Body Structure & Design
Automotive Ergonomic, Interior & Exterior Trim Design
Automotive Aerodynamics
The Virtual Wind Tunnel Technology
The Automotive Wind Tunnel Testing Technology
Automotive Reliability Technology
Simulation and Experimental Validation
Virtual Design, Testing and Validation
Complete Vehicle System and Components Test

10. Automotive Safety Technologies

Vehicle Crashworthiness and Crash Compatibility
Crash Protection on Diverse Occupants and Crash
Severities
Pedestrian Impact Protection
Injury Biomechanics
Pre-Crash Technology
Traffic Accident Reconstruction and Analysis
Safety Regulations and Vehicle Safety Recall

11. New Materials and Lightweight Technologies

Vehicle Lightweight Design
Vehicle Lightweight Forming Technique
Vehicle New Materials and Lightweight Application
Vehicle Joining Technique
Advanced Lightweight Manufacturing Equipment

12. Vehicle Electronics Control Technologies

Chassis/Body Electronic Control
Electrical & Electronic System Design Methods
Software & Hardware Development
Electromagnetic Compatibility (EMC)
Vehicle Sensor & Actuator
Multi-Media/Infotainment System
Vehicle Electronic and Electrical Architecture
New Electronic Components Used By Typical Application
Platform and Modular Design Approach
The Idea of Electronic Products Industry
Automatic Driving Vehicle Control Technology
New Energy Vehicle Control Technology

13. Technical Management

Industry Development Strategy
Policies, Regulations and Standards
Talent Training and Incentive Mechanism
Relation of OEMs and Suppliers
Product and Market Trends
Technology Roadmap
R&D Methodology
Product Development System and Process
Methods for Technology Assessment and Selection
Product Design Methodology
Business Model
Industry Cross-border Collaboration

Important Dates

Deadline for Paper Submission: April 14, 2017
Preliminary Program: August 7, 2017

Notification of Paper Acceptance: June 16, 2017
APAC 19 & 2017 SAECCE: October 24-26, 2017

Paper Submission

You are invited to submit your complete paper online (www.apac19.com.cn) before 14th April, 2017.

APAC19 Requirement for Complete Paper

- Paper language: English only, no Chinese paper are accepted.
- Paper should be consistent with the theme, content is substantial in rigorous academic style, not published.
- Font: Times New Roman, Size: 10, Single spacing
- Length: no more than 6,000 words including spaces, formulations, photos and figures.
- Paper organizing order: Title, Author's name, company, abstract, key words, content, reference.
- When submitting online, please follow the instruction to corresponding topic and subtopic.

Publication

Only papers represented by their author(s) at the congress can be published in the following Proceedings and Journal, which is a legitimate publication with an official ISBN code. Authors will be offered preferential registration fees.

- APAC19 & 2017SAECCE Proceedings (Official publication with ISBN)
- APAC19 & 2017SAECCE Selected Paper (Published jointly with Springer International Publishing AG/EI index)
- Automotive Innovation (Journal)

Presentation Abstract Submission

APAC19 is now calling for presentations, which is only suitable to senior technical leaders, experts and professors from Universities, institutes, and OEMs. Authors of accepted presentation abstracts will be offered preferential registration fees. Applicants may be invited to be a part of the Technical Sessions if the presentation abstracts are accepted by reviewers.

Technical presentation abstract requirements:

- Presentation for Technical Sessions are not limited to those have published elsewhere, as long as it confirms to one of the 13 call for paper topics.
- Length: 1 ×A4 page, approximately 500 words in English including space;
- An abstract should contain the following six contents: title, research objective, methodology, result, innovative points, limitations of the study and conclusion;
- It is recommended not to include charts or diagrams in the abstract;
- Resume of the applicant is needed when submitting abstract.

Highlights

Exhibition

The concurrent professional technical exhibition will focus on the most advanced vehicle technologies all over the world, covering five major fields: intelligent and connected vehicles, new energy vehicles, powertrain, materials and car body, as well as vehicle electronics.

Student and Young Engineer Activities

Various activities will be organized for students and young engineers during the APAC19, including creative idea and drawing competition, Technology Forum and Salon on future mobility and automobile.

Technical Tours

Several car plants, research institutes, universities and other related companies around Shanghai will be organized for some delegates during the APAC19. As one of the most concentrated industrial bases in the world, Shanghai embraces production plants or research centers for over 300 vehicle OEMs and suppliers among the Top 500.

Test Ride and Drive

Several test ride and drive will enable delegates to experience the most advanced vehicle functions and technologies such as intelligent and connected vehicles, energy saving and new energy vehicles, as well as safety technologies. Among these, the National Intelligent and Connected Vehicle (Shanghai) Pilot Zone is the first ICV proving ground in China.

Dynamic Shanghai

As the economic, trade, financial, technology and information center of China, Shanghai is one of the most popular cosmopolitan cities in the world, attracting over six million foreign tourists every year. You must enjoy yourself with its unique history, culture, scenic spots and local delicacies that represent an integration of both East and West cultural backgrounds.

About APAC19 & 2017SAECCE

SAE-China is proudly announcing that APAC19 (Asia Pacific Automotive Engineering Conference) will be held in Shanghai in October 24th - 26th 2017, co-organizing with the most highly recognized national academic congress & exhibition in Chinese automotive industry SAECCE(SAE-China Congress & Exhibition). **This will be another international automobile academic pageant held in China, succeed after FISITA Congress 2012.**

APAC (Asia Pacific Automotive Engineering Conference) is an international academic pageant co-organized by FISITA Asia-Pacific branch, which is the most important technical communication platform that held biennially when FISITA Congress is not in session. After 18 successive sessions, with the support of FISITA and participation of national SAE organizations, it has become a technical exchanges & exhibition for the automotive industry that is the biggest in scale, the highest in level and the most professional in expertise in Asia-Pacific region.

Since 2009, China has been ranking first in vehicle production and sales in the global market, and has become one of the most important regions for the automotive industry worldwide. In China the new round of technical revolution, featuring automation, connectivity and low-carbon, is combining with the internal demand of the China automotive industry to become powerful, which makes the technical innovation unprecedented active here. Nowhere has the collaboration and sharing of engineering and technical knowledge and skills been seen more clearly than in China.

With the theme of "Creating the Automobiles and Mobility for the Future", the APAC 19 will consist of various programs and activities including Plenary Sessions, Technical Summits, Special Sessions, Technical Sessions, Exhibition, Company Tours, Test Ride and more.

The Call for Papers has already launched, covering a wide range of topics. We welcome a positive participation of engineers all over the world to submit your papers to the Congress and share your ideas.

Looking forward to seeing you in Shanghai during the APAC 19, an automotive event that you must attend !

www.apac19.com.cn

About FISITA

FISITA is the international federation that brings together the global automotive mobility sector to share ideas and advance automotive technological development. Founded in 1948, we are uniquely placed to promote excellence and support the development of safe, sustainable and affordable mobility solutions.

FISITA enables automotive engineering societies and corporate organizations to connect with each other, network, share technological advancements and collaborate. Since creation, FISITA has seen significant growth in influence and relevance and today our network of Member Societies and corporate members of the Honorary Committee reach over 210,000 engineers in 37 countries, placing us at the heart of the industry.

FISITA facilitates dialogue between engineers and industry, governments, academia, and environmental and standards organizations, across all areas of automotive technology. We achieve this through organizing and delivering internationally-acclaimed technical events, including the World Automotive Congress, the World Automotive Summit and the braking specialist conference EuroBrake, as well as supporting events run by our Member Societies.

We are proud to be contributing at the forefront of education and learning through our Education Committee and other academic initiatives. As part of this strategic engagement, we support the professional development of engineers, while providing resources and opportunities to students and young engineers breaking into the profession. Through our various education initiatives, FISITA promotes the automotive mobility sector as a career pathway of choice and supports engineers throughout their career journey.

www.fisita.com

About SAE-CHINA

Founded in 1963, Society of Automotive Engineers of China (SAE-China) is a corporate member of China Association for Science and Technology (CAST), and is a national non-profit academic organization supported by enterprises, institutions and engineers in the fields of automotive and relative industries. It is also a member society of FISITA as well as one of the initiators of Asia Pacific Automotive Engineering Conference (APAC).

As a 5A-level national academic social organization recognized by the Chinese government, in its 50 years of history, SAE-China has been serving as an indispensable and important force in promoting healthy and continuous development of the automotive industry, and has been widely recognized by the industry as well as other walks of the society.

Currently, there are 39 branches and representative offices in the family tree of SAE-China, and it has also established instructive relationship with provisional automotive engineering societies over daily business all across the country. With thousands of individual members and nearly one thousand corporate members, SAE-China serves as a major driving force for disseminating new ideas, exchanging new technologies and promoting new concepts in China, as well as a significant bridge for automotive engineering communications between China and the international community.

www.sae-china.org