



2018 中国汽车工程学会年会暨展览会

SAE-CHINA CONGRESS & EXHIBITION

2018年11月6-8日, 中国·上海
November 6th-8th, 2018 Shanghai, China
www.saecce.org.cn

征文邀请

CALL FOR PAPERS

三种参与方式 / Three participation ways

- 提交论文全文 Submit a full paper
- 组织专题分会 Organize a Special Session
- 青年工程师活动 Young Professional Activities

截止日期 / Deadline: 2018.04.27

精选论文可被EI / SCI检索 Selected papers indexed by EI / SCI

主办单位
Organizer



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

特别合作伙伴
Special Partners

安亭·上海国际汽车城
Anting · Shanghai International Automobile City
人·车·城市的完美融合



中国汽车人才研究会
China Auto Talents Society



3000+ 参会代表 Delegates
500+ 演讲报告 Presentations
10000+ m²技术展示 Technical Exhibition



SAECCE简介 Brief Introduction

中国汽车工程学会年会暨展览会（SAECCE），秉承“学会搭台 行业唱戏”的理念，坚持会议交流和技术展览同时同地同主题紧密结合的模式，经过25届的发展，已成为国际汽车界深入了解中国、中国汽车界展示科技成果的平台，成为汽车工程界规模最大、最受行业认可的技术交流和展示平台。



2018 SAECCCE将于2018年11月6-8日在上海举办。届时将邀请汽车及相关行业的院士、企业高层、技术领军人物、资深专家学者，通过高层访谈、专题研讨、论文交流等形式，讨论行业热点，引领前瞻技术发展方向。预计会议代表将超过3,000人，展览面积超过10000平米。

Adhering to the concept of "Developing the industry on the platform set up by SAE-China", the SAE-China Congress & Exhibition (SAECCE) insists on the format of combining congress exchanges and technical exhibition concurrently together under the same theme. After 25 times of development, it has been one of the best opportunities for the global auto industry to understand China, a wonderful arena for Chinese automotive industry to display its technical achievement, as well as a platform for technical exchanges and showcasing that is the biggest in scale and the most acknowledged by the whole industry.



The 2018 SAECCCE will be held from November 6th-8th in Shanghai. Academicians, senior executives, and top experts will discuss heated topics in the ways such as high-level panel sessions, special sessions and paper presentations, so as to guide the further development of future pioneering technologies. The congress is expected to attract over 3,000 attendees, Whilst the Concurrent exhibition will cover an area of over 10,000m².

2018 中国汽车工程学会年会暨展览会 SAE-CHINA CONGRESS & EXHIBITION



国内外企业、高校、研究机构的专家、学者和工程师们可通过以下3种方式参与年会

Experts, scholars and engineers from companies, universities and research institutes China and abroad are encouraged to be a part of 2018 SAECC in the following three ways:

1. 提交论文全文 — 录取后有机会在技术分会演讲，并在年会相关论文集上正式出版（精选论文可被EI检索）
2. 申请组织专题分会 — 申请通过后可发起组织专题分会
3. 35岁及以下青年工程师活动 — 可申请参加青年工程师优秀论文评选、优秀青年工程师评选、青年创新成果展示

1.To submit a full paper – May have the chance to be invited for a presentation at a Technical Session and the paper will be published in the Proceedings (some accepted papers of high quality will be indexed by EI)

2.To apply for organizing a Special Session – Will be able to initiate a Special Session if the application is approved

3.Young Professional Activities(under 35 years old) – Young engineers can participate in Selection of Young Engineer Outstanding Paper, Selection of Outstanding Young Engineers, and Innovation Results Display

1. 论文投稿

2018SAECCE将从20个技术领域征集论文。

征文要求

- 论文应符合主题，内容充实，学风严谨，未曾公开发表。非个人成果或涉及科研机密成果发表，作者文责自负
- 论文字数不超过6000字，包含空格及图表
- 论文语言可以为中文或者英文。其中，中文论文需提供英文题目、英文作者信息、英文摘要和关键词

注：① 可登录www.saecce.org.cn下载论文模板。

② 征文系统将于2018年1月10日前开通，并开始接收论文。

论文评审

年会科技委员会将组织业内专家根据论文理论水平、实用价值、创新价值、分析与验证水平、影响力等指标，并综合考虑每个征文主题下所接受的论文数量，决定是否录取论文。优秀论文还将由相关出版物的评审委员会继续审查。

录取论文发表与出版

- 部分录取论文将在核心期刊《汽车工程》上刊登。约20篇（EI检索，中文论文）
- 部分录取的英文论文刊登在《论文精选集》（具有ISBN号，EI检索，仅刊登英文论文）
- 部分录取的英文论文刊登在英文期刊《Automotive Innovation》（仅刊登英文论文）
- 部分录取论文刊登在《汽车技术》、《汽车工艺与材料》等核心期刊（中文论文）
- 其他所有录取的论文将被刊登在《年会论文集》上（具有ISBN号，中文和英文论文均可，在以上四项出版物上发表的论文，只刊登摘要）

注：① 论文发表不收取费用（入选《汽车工程》的论文需要交纳版面费），但每篇论文需至少有一个作者参会，作者参会费可享受优惠。

② 凡发表在《论文精选集》上的英文论文，需符合斯普林格出版社的交稿要求。具体请登录网站下载。

2. 专题分会申请

专题分会将由企业或学术界的资深专家发起，提出技术议题，并邀请和组织相关领域的专家，以技术演讲和互动讨论的形式进行深入探讨。会议时间建议为2个小时，组织时注重跨产业的交流。提供的信息包括：

- 专题分会主题、讨论内容简介，300字以内
- 4-5个讨论议题
- 拟邀请的主持嘉宾、4-5个演讲人信息，包括姓名、单位、职务等

注：① 专题分会的议题最终还需年会科学技术委员会批准决定。

② 如公司希望发起组织专题分会，还需支付赞助费用。

3. 青年工程师活动申请

SAECCE平台将每年面向青年工程师和学生专门组织活动，为青年工程师搭建关于汽车未来技术的交流平台，并鼓励青年工程师勇于创新性地提出对汽车未来技术的新概念、新结构和新总成，积极促进青年人才的成长。

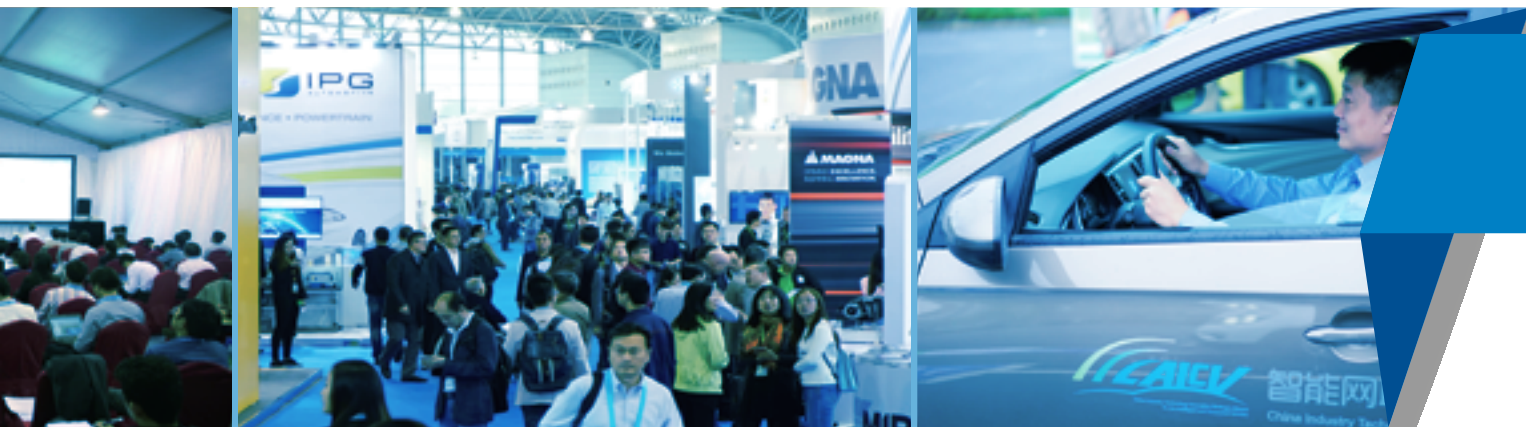
35岁及以下青年工程师可在线填写申请表，参加青年工程师活动。初步活动如下：

- 优秀论文评选
- 优秀青年工程师评选
- 青年创新成果展示

重要日期

- 论文提交截止日期-2018年04月27日
- 专题分会申请截止-2018年04月27日
- 论文录取通知日期-2018年06月18日
- 论文修改上传日期-2018年07月06日
- 初步日程发布日期-2018年08月06日
- 年会举办：2018年11月06-08日





1. Paper Submission

The 2018 SAECCCE is calling for papers from 20 technical fields.

Requirements

- Paper has not been published.
- Length: no more than 6,000 words including spaces, formulations, photos and figures.
- Language: Chinese or English. For papers written in Chinese, extra information about paper title, author's information, abstract and keywords should be provided additionally in English.

- * ① The paper template can be downloaded at www.saeccce.org.cn.
 ② The online submission system will be available after Jan.10th, 2018.

Paper Review

The Scientific & Technical Committee will decide whether to accept a paper in accordance with index such as paper technical level, values of innovation, skills of analysis and test, etc. Authors should pay particular attention to those aspects of your work which are new, innovative and unique.

Acceptance and Publication

- About 20 accepted papers of outstanding academic values will be recommended to be published on the core journal of Automotive Engineering and be included by the Engineering Index (EI).
- Some accepted papers that are written in English will be published on Selected Papers with an official ISBN code, and will be included by the Engineering Index (EI).
- Some accepted papers that are written in English will be published on English journals of *Automotive Innovation*.
- Some accepted papers of high academic values will be recommended to be published on the core journals of Automobile Technology and Automobile Technology & Material (only for papers written in Chinese).
- The rest of accepted papers will be published on the Congress Proceedings with an official ISBN code. Papers that have been published in other four publications will be represented by their abstracts, too.

- * ① Only papers represented by their author(s) at the congress can be published in the Congress Proceedings, which is a legitimate publication with an official ISBN code. Authors will be offered preferential registration fees.
 ② English papers Published on Selected Papers must meet the specific requirements put forward by Springer published House. For details, please refer to www.saeccce.org.cn.

2. How to Apply a Special Session

A Special Session is initiated by enterprises or senior experts, discussing and exploring technical issues with related experts in the form of technical reports and panel discussions. It is recommended to limit one Special Session within 2 hours and cross-industry discussion is encouraged.

The following information is needed:

- Proposed session title, introduction of session content within 300 words
- 4-5 discussion topics
- Information of moderator and 4-5 speakers being invited, including name, organization and job title

* ① The Scientific & Technical Committee (STC) has the final decision on whether to approve the Special Session proposals.

② For a Special Session proposed by a company, both the approval from STC and the sponsorship partner relationship with 2018 SAECCCE are necessary.

3. How to Participate in Young Professional Activities

To encourage creative ideas, SAECCCE offers a special platform for young engineers, for the exchanges of new concepts, new structures and new powertrains for the automotive technologies in the future. It aims to promote the growth of young talents.

Young engineers under the age of 35 can fill in the online application form and participate in the following Young Professional Activities

- Selection of Young Engineer Outstanding Paper
- Selection of Outstanding Young Engineers
- Innovation Results Display

Important dates

Deadline for Paper Submission: April 27th, 2018

Deadline for Special Session Proposals: April 27th, 2018

Notification of Paper Acceptance: June 18th, 2018

Deadline for Final Paper Submission: July 6th, 2018

Preliminary Program: August 6th, 2018

2018 SAECCCE: November 6th-8th, 2018

1. 智能网联汽车技术

环境感知与智能安全
人工智能及自动驾驶
信息安全
高精度地图与定位
人机共驾与HMI设计
建模、仿真、测试与评价技术
V2X技术及产业化
基于网联汽车的交通管理与控制
大数据及车联网应用
智能网联汽车产业化实践及商业模式
标准与规范

2. 纯电动汽车、混合动力汽车、燃料电池汽车

电池和车载能源
燃料电池及系统技术
电机及电驱动技术
电力电子技术
整车控制及能量管理
纯电动汽车
燃料电池汽车
混合动力汽车
48V系统
充电技术与基础设施
电动车空调技术
政策、市场和商业模式

3. 发动机及润滑

先进柴油机技术
先进汽油机技术
先进气体燃料发动机技术
代用燃料发动机技术
可变配气技术及增压技术
混合动力发动机技术
(增程器及混合动力用发动机)
燃料喷射与雾化
进气流动与燃烧诊断及控制
发动机设计与仿真技术
新概念内燃机技术
传热与废热利用回收
燃料与润滑
发动机关键零部件与可靠性技术
发动机电控&测试技术
动力总成(集成)工程应用技术
发动机标杆分析技术

4. 环保与排放控制

汽油机后处理系统与排放控制
柴油机后处理系统与排放控制
车内空气及内饰件材料有机挥发物检测与控制
高纯氢气燃料的纯度和利用率
非燃油系统的蒸发污染物排放控制
混合动力排放测试与评价技术
TGDI排放控制技术
气体(替代燃料)机排放控制技术
燃油品质与污染物控制技术
报废拆解环保技术
排放OBD与环保一致性技术

车辆排放污染物清单与排放总量模型
排放标准及规范研究

5. 先进变速器及动力传动系统

混合动力及电动汽车驱动系统
离合器系统及控制
齿轮系统及动力传动系统
变速器系统及控制
变速箱与发动机的匹配技术
整车开发对动力传动系统的性能要求及评价体系

6. 车辆动力学及其系统集成

车辆动力学理论、建模、仿真与测试方法
车辆动力学性能开发、评价、验证与调校技术
车辆动力学控制系统的策略、标定与验证
智能汽车的车辆动力学控制方法
轮胎力学建模、仿真、测试及评价
转向系统建模、仿真、测试方法
转向系统开发、评价与验证技术
转向控制单元的策略、标定及验证
制动系统建模、仿真、测试方法
制动系统开发、评价与验证技术
制动控制单元的策略、标定及验证
悬架系统建模、仿真、测试方法
悬架系统开发、评价与验证技术
悬架控制器的策略、标定及验证
关键功能部件(悬置、衬套、副车架)建模、仿真、测试方法
关键功能部件(悬置、衬套、副车架)开发、评价与验证技术

7. 振动噪声控制(NVH)

整车噪声振动控制
车身结构噪声振动控制
底盘噪声振动控制
发动机噪声振动控制
传动系统噪声振动控制
进气系统和排气系统噪声振动控制
隔振技术及控制
电器噪声振动控制
风噪控制技术
噪声振动测试技术
声学包设计开发技术
轮胎噪声控制技术
振动噪声主动控制技术
车用电机噪声测试评价与控制技术
新能源车低速提示音技术

8. 安全技术

汽车结构碰撞性及碰撞兼容性
多种车型和工况的乘员碰撞保护
行人碰撞保护
损伤生物力学
碰撞预判技术
交通事故再现与分析
汽车安全法规与召回

9. 汽车电子技术

动力总成/底盘/车身电子控制
电器及电子系统设计方法
软件及硬件系统
电磁兼容性(EMC)
汽车传感器及执行器
多媒体系统/资讯娱乐系统
整车电子电器架构
新型电子元器件的应用及典型电路方案
平台化、模块化设计方法
电子产品产业化思路
控制策略
电控系统控制方案
整车控制技术

10. 制造技术

焊接、连接及栓扣技术
铸造技术
冲压技术
模具设计
塑料及复合材料成型技术
整车装配技术
机加工技术
动力总成装配技术
先进制造工艺管理体系
检测与测量
仿真技术与智能制造
再制造技术

11. 工程建设与装备

汽车工厂及生产线设计与规划
汽车工厂装备技术应用
机器人与自动化控制
数字化工厂
智能制造规划与实践

12. 汽车轻量化技术

轻量化新材料
轻量化结构优化技术
轻量化与成型、加工工艺
轻量化集成设计

13. 汽车新材料

钢板的开发与应用技术
特殊钢的开发与应用技术
铝合金、镁合金材料的开发与应用技术
工程塑料及复合材料
橡胶材料
粘接剂及密封胶
摩擦和密封材料
材料成型技术
连接技术
表面处理技术
加工技术
试验检测方法
材料评价技术
材料数据库
汽车零部件失效分析

14. 汽车仿真与测试

CAD/CAE/CAM/CFD工程分析技术与优化
仿真与试验验证
虚拟设计、测试与验证
整车系统及零部件测试
汽车测试设备

15. 先进汽车车身设计

先进汽车车身结构与设计技术
车身CAD/CAE/CAM/CFD分析技术与优化
智能制造技术在汽车车身制造中的应用

16. 整车产品与性能开发

整车设计与性能开发
汽车人体工程因素设计及内外饰设计技术
汽车开发流程
整车对标分析
汽车数字化开发技术
汽车产品

17. 汽车空气动力学

整车空气动力学性能开发
风噪性能开发
造型与空气动力学优化设计
空气动力学与整车性能集成开发
新能源汽车空气动力学性能开发
汽车风洞试验技术
空气动力学主动控制技术
赛车空气动力学性能开发
整车热管理控制与开发
发动机热管理性能开发
空调性能开发
新能源电池热管理技术
水管理技术
虚拟风洞开发技术
高精度CFD仿真分析技术

18. 汽车可靠性技术

虚拟试验场技术
汽车可靠性仿真分析
汽车可靠性试验
汽车可靠性设计

19. 汽车涂装技术

20. 技术管理

产业发展战略
政策法规与标准体系
人才培养与激励机制
整零关系
产品与市场趋势
技术路线图
研发方法论
产品开发体系与流程
技术评价与决策方法论
产品设计方法论
商业模式
产业跨界与协同

We call for papers on the following topics

1. Intelligent & Connected Vehicles Technologies

Environmental Perception and Intelligent Safety
AI and Autonomous Driving
Cyber Security
HD Map and Positioning
Co-pilot and HMI Design
Modeling, Simulation, Testing and Evaluation Technologies
V2X Technology and Industrialization
Traffic Management and Control with Connected Vehicle
Big Data and its Application for Connected Vehicle
Industrialization Practice and Commercial Model for ICV
Standards & Regulations

2. BEV/HEV/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
Hybrid Electric Vehicles
48V System
Charging Technology and Infrastructure
Air Conditioning Technology for EV
Policy, Business Mode and Marketing

3. Internal Combustion Engine, Lubrication

Advanced Diesel Engine Technology
Advanced Gasoline Engine Technology
Advanced Gaseous Fuel Engine Technology
Alternative Fuel 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

4. Environment and Emission Control

Gasoline After Treatment and Emission Control
Diesel After Treatment and Emission Control
Vehicle Interior Air and VOC Test and Control
Purity and Utilization of High Purity Hydrogen Fuel
Evaporative Pollutant Emission Control of Non-Fuel System
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

Hybrid & Electric Vehicle Driving System
Clutch System & Control
Gear System & Driveline
Transmission System and Control
Matching Technologies of Transmission and Engine
Performance Requirement & Evaluation
System of Driveline Based on Vehicle Development

6. Vehicle Dynamics and Systems Integration

Modeling, Simulation and Test of Vehicle Dynamics
Development, Evaluation, Validation and Tuning of Vehicle Dynamics Performance
Strategy, Calibration and Validation of Vehicle Dynamics Control
Dynamics Control of Intelligent Vehicle
Modeling, Simulation, Test and Validation of Tire
Modeling, Simulation, and Test of Steering System
Development, Evaluation, and Validation Technology of Steering System
Strategy, Calibration and Validation of Steering System ECU
Modeling, Simulation, and Test of Braking System
Development, Evaluation, and Validation Technology of Braking System
Strategy, Calibration and Validation of Braking System ECU
Modeling, Simulation, Test and Evaluation of Suspension
Development, Evaluation, and Validation Technology of Suspension
Strategy, Calibration and Validation of Suspension ECU
Modeling, Simulation, and Test of Key Functional Components (Mounting, Bushing and Subframe)
Development, Evaluation, and Validation Technology of Key Functional Components (Mounting, Bushing and Subframe)

7. 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
Motor Noise Test and Control
Vehicle Sound for Pedestrians

8. Automotive Safety Technologies

Automotive Structure 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

9. Vehicle Electronics Control Technologies

Powertrain/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 Control Strategy
Control Scheme of Electronic Control System
Vehicle Control Technology

10. Advanced Vehicle Manufacturing Technologies

Welding, Joining & Fastening
Casting Technology
Stamping Technology
Mold Design
Plastic and Composite Material Molding Technology
Trim and Chassis Technology
Machine Technology
Assembling Technology for Engine Assembly
Advanced Process Management
Detection and Measurement
Simulation Technology and Intelligent Manufacturing
Remanufacturing Technology

11. Engineering Construction & Equipment

Design & Planning of Production Line
Equipment Technology
Robotics and Automation
Digital Plant
Smart Manufacturing Plan & Practice

12. Lightweight Technologies

New Lightweight Materials
Lightweight Structure Optimization
Technology
Lightweight Forming and Processing
Technology
Lightweight Integrated Design

13. New Materials

Development and Application of Steel Plate
Development and Application of Special Steel
Development and Application of Aluminium Alloy and Magnesium Material
Engineering Plastics and Composite Material
Rubber Material
Adhesive and Sealant
Friction and Sealing Material
Material Molding Technology
Connection Technology
Surface Treatment Technology
Process Technology
Test Detection Method
Material Evaluation Technology
Material Database
Auto Parts Failure Analysis

14. Automotive Simulation and Testing

CAD/CAE/CAM/CFD Analysis and Optimization
Simulation and Experimental Validation
Virtual Design, Testing and Validation
Complete Vehicle System and Components Test
Vehicle Experiment Equipment

15. Advanced Car Body Design

Advanced Car Body Structure & Design
CAD/CAE/CAM/CFD Analysis and Optimization
Application of Intelligent Manufacturing Technology for Car Body Manufacturing

16. Product & Performance Development

Vehicle Performance Development
Automotive Ergonomic, Interior & Exterior Trim Design
Vehicle Development Process
Vehicle Benchmarking
Digital Development Technology
Vehicle Products

17. Automotive Aerodynamics

Vehicle Aerodynamics Performance Development
Wind Noise Performance Development
Modeling and Aerodynamics
Optimization Design
Aerodynamics and Vehicle Performance Integration Development
New Energy Vehicle Aerodynamics Performance Development
Automotive Wind Tunnel Testing Technology
Aerodynamics Active Control Technology
Race Car Aerodynamics Performance Development
Vehicle Thermal Management Control and Development
Engine Thermal Management Performance Development
HVAC Performance Development
New Energy Battery Thermal Management Technology
Water Management Technology
Virtual Wind Tunnel Development Technology
High-accuracy CFD Simulation Analysis Technology

18. Automotive Reliability Technology

Virtual Roving Ground Technology
Vehicle Reliability Simulation and Analysis
Vehicle Reliability Test
Vehicle Reliability Design

19. Painting Technology

20. 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



汽车行业最受认可的技术年会和技术展览
Technical Conference and Exhibition Most
Recognized by the Automobile Industry



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

北京 Beijing

电话 Tel: +86-10-50950041/40/37

邮箱 Email: Congress@sae-china.org

地址: 北京市西城区莲花池东路102号天莲大厦4层

Add: 4F, Tianlian Building, No.102, Lianhuachi East Road, Xicheng District, Beijing, China

Website: www.sae-china.org

Congress website: www.saecce.org.cn

上海 Shanghai

电话 Tel: +86-18601736215

邮箱 Email: Selina.yang@sae-china.org

地址: 上海市嘉定区安亭镇安拓路56弄11号3单元

Add: Unit 3, Building11, Ne.56 Antuo Road, Jiading, Shanghai