

2023 中国汽车工程学会年会
2023 CHINA-SAE CONGRESS

论 文 集 PROCEEDINGS

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



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本文集共收录来自整车及零部件企业、科研院所的论文 450 余篇，内容涉及智能网联汽车技术，新能源及节能减排技术，商用车技术，越野、飞行与特种车辆技术，汽车动力总成技术，汽车设计技术，汽车制造工艺技术，技术管理等八大领域。这些论文全面反映了汽车工程界的学术水平、研发现状和趋势，具有很高的参考价值，可作为汽车专业的学生、业内技术人员和研究人员的研究资料。

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中国汽车工程学会

中国汽车工程学会（China SAE）成立于 1963 年，是由中国汽车科技工作者自愿组成的全国性、学术性法人团体；是中国科学技术协会的组成部分，非营利性社会组织；是世界汽车工程师学会联合会（FISITA）常务理事；是亚太汽车工程年会（APAC）发起国之一。中国汽车工程学会经过五十余年的发展，已经成为推动汽车产业健康、持续发展不可缺少的重要力量，得到了国内外汽车行业、社会各界、政府部门和广大科技人员的认可。中国汽车工程学会目前下设 56 个分支/代表机构，并与各个省级汽车工程学会建立了业务指导关系。中国汽车工程学会是中国汽车工业传播新思想、交流新技术、宣传新观念的重要力量和增进国际汽车行业交流的重要桥梁。

历史沿革

中国汽车工程学会前身是中国机械工程学会汽车工程分会，1963 年成立于长春。1985 年 3 月，经国家体改委批准成为全国性学会，同年加入中国科学技术协会。1991 年 9 月经民政部批准成为社团法人。

服务宗旨

- 推动汽车工业科技进步
- 培养汽车科技人才
- 促进国内外汽车产业技术交流
- 传播、普及汽车科技知识
- 弘扬汽车文化
- 筑建科技工作者之家

前言

PREFACE

恰逢中国汽车工程学会成立 60 周年，2023 年 10 月中国汽车工程学会举办第 30 届中国汽车工程学会年会暨展览会。

2023 中国汽车工程学会年会暨展览会（SAECCE 2023）以“科技引领汽车产业高质量发展”为主题，广泛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、广大科技工作者，交流内容涵盖节能动力、新能源、底盘系统、智能网联、整车集成与性能、共性能力/共性技术六大板块，通过组织会议、展览、试乘试驾、学术观点发布等多元化形式，共享全球实践、凝聚行业共识、促进产业发展、探索技术创新、强化生态建设，参会人数超过 3500 人。

在广大汽车科技工作者的努力和支持下，本届年会收到论文投稿共 1329 篇，其中“中国大学生方程式系列赛事（FSC）”推荐论文 46 篇，本届年会共录取论文 595 篇。其中，8 篇论文入选《汽车工程》、4 篇入选《汽车技术》、1 篇入选《Automotive Innovation》、2 篇入选《汽车工程学报》、8 篇入选《汽车工艺与材料》、2 篇入选《汽车工程师》、1 篇入选《汽车文摘》等期刊；108 篇入选《2023 中国汽车工程学会年会论文集精选》，将进入 EI 检索；其他 461 篇入选《2023 中国汽车工程学会年会论文集》。

本届年会论文内容涉及智能网联汽车技术，新能源及节能减排技术，商用车技术，越野、飞行与特种车辆技术，汽车动力总成技术，汽车设计技术，汽车制造工艺技术，技术管理多个领域，凝聚了广大汽车科技工作者近年来的科技成果，反映了国内外汽车企业和科研院所在诸多科技领域内的学术和科研水平，展示了汽车技术所取得的各项进步。

在此，中国汽车工程学会对所有论文作者的辛勤工作表示感谢。同时，也感谢中国汽车工程学会各专业技术分会的积极参与和协助，尤其是对国内外汽车行业组织和技术专家的鼎力支持表示由衷的感谢与敬意。中国汽车工程学会将继续努力，坚持突破创新，引领先进技术，为全球汽车行业技术进步搭建综合学术交流平台。

中国汽车工程学会
2023 年 10 月

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