



同济大学
TONGJI UNIVERSITY

2023 汽车动力总成多元化技术 VEHICLE POWERTRAIN DIVERSIFICATION TECHNOLOGY FORUM 国际论坛

2023 年 8 月 25-26 日 中国 上海
AUGUST 25-26 SHANGHAI, CHINA



会议组委会

ORGANIZING COMMITTEE

大会主席

Chair

张立军 同济大学 汽车学院院长
ZHANG Lijun Dean, School of Automotive Studies, Tongji University

副主席

Vice Chair

韩志玉 同济大学 教授、SAE Fellow、SAE 新能源汽车技术委员会主席
HAN Zhiyu Professor, Tongji University; SAE Fellow; Chair, SAE New Energy Vehicle Technical Committee

徐向阳 北京航空航天大学交通科学与工程学院教授
XU Xiangyang Professor, School of Transportation Science and Engineering, Beihang University

赵治国 同济大学 汽车学院 副院长、教授
ZHAO Zhiguo Vice Dean and Professor, School of Automotive Studies, Tongji University

执行主席

Executive Chair

赵治国 同济大学 汽车学院 副院长、教授
ZHAO Zhiguo Vice Dean and Professor, School of Automotive Studies, Tongji University

分会主席

Session Chair

新能源汽车前沿技术
Advanced Technology in New Energy Vehicles

陈勇 广西大学
CHEN Yong Guangxi University

孟德建 同济大学
MENG Dejian Tongji University

新能源汽车的控制及优化
Control and Optimization of New Energy Vehicles

林葵 南京航空航天大学
LIN Fen Nanjing University of Aeronautics and Astronautics

高炳钊 同济大学
GAO Bingzhao Tongji University

混合动力专用发动机
Dedicated Hybrid Engine

孔令逊 上海交通大学
David Hung Shanghai Jiao Tong University

董光宇 同济大学
DONG Guangyu Tongji University

零碳内燃机
Zero Carbon Internal Combustion Engine

谢辉 天津大学
XIE Hui Tianjin University

蔡黎明 同济大学
CAI Liming Tongji University

混合动力专用变速器
Dedicated Hybrid Transmissions

何洪文 北京理工大学
HE Hongwen Beijing Institute of Technology

董鹏 北京航空航天大学
DONG Peng Beihang University

电机和电驱动系统
Electrical Motor and E-Drive System

祝小元 东南大学
ZHU Xiaoyuan Southeast University

帅志斌 中国北方车辆研究所
SHUAI Zhibin China North Vehicle Research Institute

电池和管理系统
Battery and Battery Management System

胡晓松 重庆大学
HU Xiaosong Chongqing University

戴海峰 同济大学
DAI Haifeng Tongji University

燃料电池和系统
Fuel Cells and Fuel Cell Systems

林瑞 同济大学
LIN Rui Tongji University

李蕴琪 北京航空航天大学
LI Yunqi Beihang University

会议概览

EVENT-AT-A-GLANCE

8 月 25 日 AUGUST 25		
9:00~13:00 注册签到 Registration		
13:20~13:30 欢迎致辞 Welcome Speech		
13:30~16:00 技术演讲 Technical Speech		
16:15~17:00 圆桌讨论 Panel Discussion		
8 月 26 日 AUGUST 26		
9:00~9:10 欢迎致辞 Welcome Speech		
9:10~12:00 技术演讲 Technical Speech		
午餐 Lunch		
13:30~17:15 论文宣讲 Paper Presentation		
会议室 1 Room 1	会议室 2 Room 2	会议室 3 Room 3
燃料电池和系统 Fuel Cells and Fuel Cell Systems	新能源汽车前沿技术 Advanced Technology in New Energy Vehicles	混合动力专用发动机 Dedicated Hybrid Engine
	电机和电驱动系统 Electrical Motor and E-Drive System	零碳内燃机 Zero Carbon Internal Combustion Engine
	新能源汽车的控制及优化 Control and Optimization of New Energy Vehicles	电池和管理系统 Battery and Battery Management System
		混合动力专用变速器 Dedicated Hybrid Transmissions
17:15~17:30 优秀论文颁奖 Award for Outstanding Papers		

TECHNICAL PROGRAM

August 25 Plenary Meeting Moderator: SHUAI Shijin Professor, the State Key Laboratory of Intelligent Clean Vehicle and Mobility, Tsinghua University	
13:20	WELCOME ADDRESS ZHAO Zhiguo Vice Dean and Professor, School of Automotive Studies, Tongji University
13:30	State of the Art and Prospect of Hydrogen Power Technologies for Mobility SHUAI Shijin Professor, the State Key Laboratory of Intelligent Clean Vehicle and Mobility, Tsinghua University
13:55	Multiple Approaches for the Low Carbon Technology Innovations of Automotive Mitsuto Sakai Director, Intelligent ElectroMobility R&D Center by TOYOTA (China) Co., Ltd. Beijing Branch
14:20	Methanol Hydrogen - Boosting Energy Transition and Hydrogen Transportation CHENG Jinglei Chair and CEO, SunHydro Group
14:45	The Path to Carbon Neutrality in the EU Automotive Industry YU Heng Business Line Manager of Vehicle Department, TUV NORD (Hangzhou) Co., Ltd.
15:10	Working Together to Address Global Challenges in Adoption of Electrified Vehicles and Machines Brian Engle Director, Amphenol Business Development; Chair, SAE Battery Standards Steering Committee
15:35	Prospects for eFuels under Net-Zero Carbon Emission Background XU Hongming Professor, University of Birmingham; Distinguished Visiting Professor, Tsinghua University; SAE Fellow
16:00	Tea Break
16:15 ~ 17:00	Panel: Prospects for the Application of Carbon-Neutral Fuels in Transportation Moderator: SHUAI Shijin Professor at the State Key Laboratory of Intelligent Clean Vehicle and Mobility, Tsinghua University Mitsuto Sakai Director of Intelligent ElectroMobility R&D Center by TOYOTA (China) Co., Ltd. Beijing Branch CHENG Jinglei Chair and CEO, SunHydro Group XU Hongming Professor, University of Birmingham; Distinguished Visiting Professor, Tsinghua University; SAE Fellow GU Jianming CTO, Valeo China LIN Rui Professor, Tongji University

会议日程

8月25日 全体大会

主持人：帅石金 清华大学 智能绿色车辆与交通全国重点实验室教授

欢迎致辞

13:20

赵治国 同济大学 汽车学院副院长、教授

交通氢能动力技术发展现状及展望

13:30

帅石金 清华大学 智能绿色车辆与交通全国重点实验室教授

汽车低碳技术革新的多方位探索

13:55

坂井光人 丰田智能电动汽车研发中心（中国）有限公司北京分公司 主任

甲醇氢能——助力能源转型和氢能交通

14:20

程惊雷 青岛阳氢集团 董事长

欧盟汽车行业碳中和之路

14:45

余恒 杭州汉德质量认证服务有限公司 车辆部业务线经理

携手应对电动汽车的全球挑战

15:10

Brian Engle 安费诺 业务发展总监、SAE电池指导委员会主席

零碳背景下的电子合成燃料展望

15:35

徐宏明 英国伯明翰大学 教授、清华大学 卓越访问教授、SAE Fellow

茶歇

16:00

圆桌讨论：交通碳中和燃料应用前景

主持人：帅石金 清华大学 智能绿色车辆与交通全国重点实验室教授

16:15

坂井光人 丰田智能电动汽车研发中心（中国）有限公司北京分公司 主任

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17:00

程惊雷 青岛阳氢集团董事长

徐宏明 英国伯明翰大学教授、清华大学卓越访问教授、SAE Fellow

顾剑民 法雷奥中国 首席技术官

林瑞 同济大学 教授

TECHNICAL PROGRAM

2023 VEHICLE POWERTRAIN DIVERSIFICATION TECHNOLOGY FORUM

Moderator: ZHAO Zhiguo Vice Dean and Professor, School of Automotive Studies, Tongji University

WELCOME ADDRESS

9:00

ZHAO Zhiguo Vice Dean and Professor, School of Automotive Studies, Tongji University

Development Status and Trends of Hybrid Powertrain Energy Management Strategies

9:10

XU Xiangyang Professor and Director of Academic Committee, School of Transportation Science and Engineering, Beihang University

Powertrain Technology Development of Passenger Vehicles under the Dual Carbon Background

9:35

XU Zheng Director, SAIC Motor R&D Innovation Headquarters

Research and Practice on Low-Carbon and Zero-Carbon Transition of New Energy Commercial Vehicles

10:00

ZHONG Yuwei SVP, Guangxi Yuchai; Chair, Yuchai Synland

10:25

Tea Break

Diversified Electrification Trend and the R&D Practice of Chang'an Automobile

10:45

LIU Jiwei HEV Development Manager, Chongqing Chang'an Automobile

Thoughts on Powertrain Diversification Under Dual Carbon Environment

11:10

ZHANG Weidong Chief Engineer, Shenyang Aerospace Mitsubishi Motors Engine Manufacturing Co., Ltd.

Discussion on the Status and Trends of Commercial Vehicle Electric Drive Market and Technology

11:35

DENG Yueyue Chief Engineer, TBK Co., Ltd.

12:00

Lunch

会议日程

8月25日 全体大会

主持人：赵治国 同济大学 汽车学院副院长、教授

欢迎致辞

9:00

赵治国 同济大学 汽车学院副院长、教授

混合动力能量管理策略发展现状和趋势

9:10

徐向阳 北京航空航天大学交通科学与工程学院教授、学术委员会主任

双碳背景下乘用车动力总成技术开发

9:35

徐政 上汽集团创新研究开发总院 总监

新能源商用车低碳零碳转型研究与实践

10:00

钟玉伟 广西玉柴机器股份有限公司 高级副总裁、玉柴芯蓝新能源动力科技有限公司 董事长

10:25

茶歇

多元电气化趋势及长安研发实践

10:45

刘继伟 重庆长安汽车股份有限公司 混动开发经理

双碳环境下的动力多元化思考

11:10

张卫东 沈阳航天三菱汽车发动机制造有限公司 总工程师

商用车电驱动市场、技术现状和趋势探讨

11:35

邓跃跃 特百佳动力科技股份有限公司 总工程师

12:00

午餐

PAPER PRESENTATION

ROOM 1	ROOM 2		ROOM 3	
Fuel Cells and Fuel Cell Systems	Advanced Technology in New Energy Vehicles	Electrical Motor and E-Drive System	Dedicated Hybrid Engine	Zero Carbon Internal Combustion Engine
	Control and Optimization of New Energy Vehicles		Battery and Battery Management System	Dedicated Hybrid Transmissions

ROOM 1: Fuel Cells and Fuel Cell Systems

Chair: LIN Rui Tongji University LI Yunqi Beihang University

13:30	23CETP-0024 A Multi-sine Excitation Signal Optimization Strategy for EIS Measurement of High-power Fuel Cells XU Xinru Tongji University
13:45	23CETP-0017 Leakage and Diffusion Analysis and Safety Research of Onboard Hydrogen Systems in Different Space ZHANG Yongtao Beijing Jiaotong University
14:00	23CETP-0021 Prediction of the Remaining Useful Life of the Proton Exchange Membrane Fuel Cell with an Integrated Health Index FAN Lei Tongji University
14:15	23CETP-0018 Study on Transient Tolerance Concentration of Cathode Ammonia in Proton Exchange Membrane Fuel Cells JING Yuan Tongji University
14:30	23CETP-0019 Experimental Study on Transient Response Characteristics of Commercial-size PEMFC under Varying Load MA Yunyang Tongji University
14:45	23CETP-0022 Inlet Gas Temperature Control Technology for PEMFC Stack Test Benches PEI Yaowang Tongji University
15:00	23CETP-0020 A Novel Hybrid Method Based on the Sliding Window Method for the Estimation of the State of Health of the Proton Exchange Membrane Fuel Cell FAN Lei Tongji University
15:15	23CETP-0043 Improving Dynamic Response of PEMFC Anode Pressure in Dropped Load Scenarios through Split Range Control ZHANG Junyu Tongji University
15:30	23CETP-0002 Optimization of Microporous Layer Composition at Varying Humidities for High-Performance Polymer Exchange Membrane Fuel Cell LOU Mingyu Tongji University
15:45	23CETP-0041 Analysis of Rotor Dynamics Characteristics of Roots Hydrogen Circulation Pump LIN Mengzhu Tongji University
16:00	23CETP-0016 Research on the Control Method of Staggered Parallel Boost Structure in Fuel Cell System LIU Qilin Tongji University
16:15	23CETP-0044 Research on Air Mass Flow and Pressure Control Method for the Multi-stack Fuel Cell System Based on Model Predictive Control XIE Zhengchun Tongji University
16:30	23CETP-0042 Research on Cold Start Strategy of Vehicle Multi-stack Fuel Cell System JIN Yapeng Tongji University

论文宣讲

会议室1	会议室2		会议室3	
燃料电池和系统	新能源汽车前沿技术	电机和电驱动系统	混合动力专用发动机	零碳内燃机
	新能源汽车的控制及优化		电池和管理系统	混合动力专用变速器

会议室 1:燃料电池和系统				
主席: 林瑞 同济大学 李蕴琪 北京航空航天大学				
13:30	23CETP-0024	用于大功率燃料电池电化学阻抗谱测量的多频复合正弦激励信号优化策略 徐欣茹 同济大学		
13:45	23CETP-0017	车载供氢系统在不同空间的泄漏扩散分析与安全研究 张永涛 北京交通大学		
14:00	23CETP-0021	使用融合健康指标的质子交换膜燃料电池剩余使用寿命预测 樊磊 同济大学		
14:15	23CETP-0018	质子交换膜燃料电池对阴极氨的瞬时耐受浓度研究 景源 同济大学		
14:30	23CETP-0019	变载工况下大面积燃料电池瞬态响应特性研究 马云阳 同济大学		
14:45	23CETP-0022	燃料电池测试台进气温度控制技术 裴尧旺 同济大学		
15:00	23CETP-0020	基于滑动窗口方法的质子交换膜燃料电池健康状态估计混合方法 樊磊 同济大学		
15:15	23CETP-0043	改善降载场景下质子交换膜燃料电池阳极压力动态响应的分程控制测量 张俊宇 同济大学		
15:30	23CETP-0002	宽幅湿度下高性能质子交换膜燃料电池微孔层组分优化研究 姜明宇 同济大学		
15:45	23CETP-0041	罗茨式氢气循环泵的转子动力学特性分析 林梦竹 同济大学		
16:00	23CETP-0016	基于交错并联Boost结构的燃料电池系统DC/DC控制方法研究 刘其林 同济大学		
16:15	23CETP-0044	基于模型预测控制的多堆燃料电池系统空气流量和压力控制方法研究 谢正春 同济大学		
16:30	23CETP-0042	车用多堆燃料电池系统冷启动策略研究 晋亚鹏 同济大学		

PAPER PRESENTATION

ROOM 2

Advanced Technology in New Energy Vehicles

Chair: CHEN Yong Guangxi University MENG Dejian Tongji University

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|-------|--|
| 13:30 | 23CETP-0023
Experimental Study on Energy Consumption and Emissions of Heavy-duty Hybrid Dump Truck
HAN Ronggang CATARC |
| 13:45 | 23CETP-0036
Simulation Study on the Effect of In-Cylinder Water Injection Mass on Engine Combustion and Emissions Characteristics
GUAN Jun Tongji University |
| 14:00 | 23CETP-0034
Energy Transformation Propelled Evolution of Automotive Carbon Emissions
MENG Shuo Tongji University |
| 14:15 | 23CETP-0033
Design of a Permanent Magnet Biased Radial Magnetic Bearing for Energy Storage of Vehicle Flywheels
SHA Yingdi Chongqing Tongwo Automobile Technology Co., Ltd. |

Electrical Motor and E-Drive System

Chair: ZHU Xiaoyuan Southeast University SHUAI Zhibin China North Vehicle Research Institute

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|-------|---|
| 14:30 | 23CETP-0009
Matching and Optimization Design of Electric Drive Assembly Mounting System of Electric Vehicle
WANG Yifan Tongji University |
| 14:45 | 23CETP-0012
Analysis and Control of Gear Rattle Noise for E-axle
WANG Dong CATARC |
| 15:00 | 23CETP-0011
Analysis of Dynamic Characteristics and Load Sharing Performance of Electric Driven Planetary Gear System Based on Electromechanical Coupling Model
GUO Fang Chang'an University |
| 15:15 | 23CETP-0039
Gear Fault Diagnosis for Vehicle Electric Drive Systems Based on Stator Currents
GONG Hao Jiangsu University |
| 15:30 | 23CETP-0040
Transient Temperature Field Prediction of PMSM Based on Electromagnetic-heat-flow Multi-physics Coupling and Data-Driven Fusion Modeling
TANG Peng Tongji University |

Control and Optimization of New Energy Vehicles

Chair: LIN Fen Nanjing University of Aeronautics and Astronautics GAO Bingzhao Tongji University

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|-------|--|
| 15:45 | 23CETP-0030
An Operating Point Adjustment Model Using PMP-GWO-Bi-LSTM for Range Extended Electric Vehicle
HUANG Wei University of Science and Technology of China |
| 16:00 | 23CETP-0013
Energy Management Based on D4QN Reinforcement Learning for a Series-parallel Multi-speed Hybrid Electric Vehicle
ZHAO Yinghua Tongji University |
| 16:15 | 23CETP-0031
Assisted Steering Control for Distributed Drive Electric Vehicles Based on Combination of Driving and Braking
WANG Cheng Wuhan University of Technology |

论文宣讲

会议室 2

新能源汽车前沿技术

主席: 陈勇 广西大学 孟德建 同济大学

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| 13:30 | 23CETP-0023
重型混合动力自卸车能耗及排放试验研究
韩荣港 中国汽车技术研究中心有限公司 |
| 13:45 | 23CETP-0036
缸内喷水质量对发动机燃烧和排放特性影响的仿真研究
管俊 同济大学 |
| 14:00 | 23CETP-0034
能源转型推动下的汽车碳排放演变
孟硕 同济大学 |
| 14:15 | 23CETP-0033
一种用于车载飞轮储能的永磁偏置径向磁轴承设计
沙迎递 重庆同沃汽车科技有限公司 |

电机和电驱动系统

主席: 祝小元 东南大学 帅志斌 中国北方车辆研究所

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|-------|--|
| 14:30 | 23CETP-0009
电动汽车电驱动总成悬置系统匹配与优化设计
王一凡 同济大学 |
| 14:45 | 23CETP-0012
电驱桥齿轮敲击噪声分析与控制
王东 中汽中心 |
| 15:00 | 23CETP-0011
电驱动行星轮系机电耦合动态特性及均载性能分析
郭芳 长安大学 |
| 15:15 | 23CETP-0039
基于定子电流的汽车电驱动系统齿轮故障诊断
宫昊 江苏大学 |
| 15:30 | 23CETP-0040
基于电磁热流多物理场耦合和数据驱动融合建模的永磁同步电机瞬态温度场预测
唐鹏 同济大学 |

新能源汽车的控制及优化

主席: 林葵 南京航空航天大学 高炳钊 同济大学

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|-------|---|
| 15:45 | 23CETP-0030
一种用于增程式混合动力汽车工况点调节的PMP-GWO-Bi LSTM模型开发
黄伟 中国科学技术大学 |
| 16:00 | 23CETP-0013
基于D4QN强化学习算法的串并联多挡混合动力乘用车能量管理策略研究
赵瀛华 同济大学 |
| 16:15 | 23CETP-0031
基于驱动与制动相结合的分布式驱动电动汽车辅助转向控制
王诚 武汉理工大学 |

PAPER PRESENTATION

ROOM 3	
Dedicated Hybrid Engine Chair: David Hung Shanghai Jiao Tong University DONG Guangyu Tongji University	
13:30	23CETP-0005 An Experimental Study on Soot Particles Size Distribution and Nanostructure Evolution at Different Tailpipe Positions of a Dedicated Hybrid Engine FU Jiale Tongji University
13:45	23CETP-0027 Simulation Study on EGR Condensate Flow and Uniformity of Each Cylinder in the Intake Manifold LI Guanting BYD
14:00	23CETP-0006 Simulation Study on High Expansion Ratio Dedicated Hybrid Engine for Hybrid Commercial Vehicle Application WANG Xiaosa Tianjin University
14:15	23CETP-0028 Research on the Influence of Different Working Conditions on the Driving Range, Energy Consumption and Emissions of Heavy-duty Hybrid Buses FENG Zhonghui TATC
Zero Carbon Internal Combustion Engine Chair: XIE Hui Tianjin University CAI Liming Tongji University	
14:30	23CETP-0026 Research on Injection Characteristics of Marine Ammonia Fuel Injector Under Wide Temperature Range WEI Yunpeng Harbin Engineering University
14:45	23CETP-0045 Simulation Study of the Effect of Nozzle Position and Hydrogen Injection Strategy on Hydrogen Engine Combustion Characteristic TIAN Yuan Tongji University
15:00	23CETP-0025 Numerical Investigations on Formation Process of N2O in Ammonia/Hydrogen Fueled Pre-Chamber Jet Ignition Engine SHANG Quanbo Tongji University
15:15	23CETP-0046 LES Study of the Mixing Process and Cyclic Variation of a Direct-Injection Hydrogen Engine LIU Xiaoqi Tongji University
15:30	23CETP-0029 Numerical Simulation of the Effect of In-Cylinder Water Spraying on the Knock and Combustion Characteristics of a Hydrogen-Argon Oxygen Engine PANG Kai Tianjin University

论文宣讲

会议室 3

混合动力专用发动机

主席: 孔令逊 上海交通大学 董光宇 同济大学

23CETP-0005
13:30 混合动力专用发动机排气管不同位置碳烟颗粒粒径分布及纳米结构演变实验研究
付佳乐 同济大学

23CETP-0027
13:45 进气歧管内EGR冷凝水流动仿真研究
李冠廷 比亚迪汽车工业有限公司

23CETP-0006
14:00 面向混合动力商用车应用的高膨胀比混合动力专用发动机仿真研究
王潇洒 天津大学

23CETP-0028
14:15 不同工况对重型混动公交车续驶里程、能耗及排放影响研究
冯钟辉 中汽研汽车检验中心(天津)有限公司

零碳内燃机

主席: 谢辉 天津大学 蔡黎明 同济大学

23CETP-0026
14:30 宽温域下船用氨燃料喷射器喷射特性研究
魏云鹏 哈尔滨工程大学

23CETP-0045
14:45 喷嘴位置与喷氢策略对氢气发动机燃烧特性的仿真研究
田原 同济大学

23CETP-0025
15:00 氨氢燃料射流点火发动机N₂O生成过程的仿真研究
商权波 同济大学

23CETP-0046
15:15 直喷氢气发动机混合过程及其循环变动的大涡模拟研究
刘晓祺 同济大学

23CETP-0029
15:30 缸内喷水对氢-氨氧发动机爆震与燃烧特性影响的数值模拟研究
庞凯 天津大学



PAPER PRESENTATION

ROOM 3		
Battery and Battery Management System Chair: HU Xiaosong Chongqing University DAI Haifeng Tongji University		
15:45	23CETP-0003 Sensitivity Analysis of Advanced Non-linear Observer for States Estimation of Lithium ion Batteries Muhammad Saeed Chongqing University	
16:00	23CETP-0037 Knee-Point Identification of Battery Degradation Trajectory Based on Constant Voltage Charging Capacity Variation CHEN Jianguo Shanghai University of Technology	
Dedicated Hybrid Transmissions Chair: HE Hongwen Beijing University of Technology DONG Peng Beihang University		
16:15	23CETP-0007 Optimization of Energy Management Strategy for Multi-Mode Hybrid Transmission Based on Condition Prediction JIANG Yutong Beijing University of Science and Technology	
16:30	23CETP-0008 Torsional Vibration Attenuation of HEV Drivetrain Featuring on a Controllable Damper LIU Shaofei Hefei University of Technology	



论文宣讲

会议室 3		
电池和管理系统 主席: 胡晓松 重庆大学 戴海峰 同济大学		
15:45	23CETP-0003 高级非线性观测器对锂离子电池状态估计的灵敏度分析 Muhammad Saeed 重庆大学	
16:00	23CETP-0037 基于恒压充电量的锂离子电池衰减拐点识别 陈建国 上海理工大学	
混合动力专用变速器 主席: 何洪文 北京理工大学 董鹏 北京航空航天大学		
16:15	23CETP-0007 基于工况预测的多模混合动力变速器能量管理策略优化 姜禹彤 北京科技大学	
16:30	23CETP-0008 采用可控阻尼器的混合动力汽车传动系统的扭转减振 刘少飞 合肥工业大学	



2023 汽车动力总成多元化技术国际论坛 通过双盲同行评审论文列表

以下论文将由 SAE International 正式出版发行，并收录至 EI 检索。
正式出版后可至 SAE Mobilus 数字图书馆查阅：<https://saemobilus.sae.org/>

正式论文出版编号	投稿编号	论文题目
2023-01-7000	23CETP-0003	Sensitivity Analysis of Advanced Non-linear Observer for States Estimation of Lithium ion Batteries
2023-01-7001	23CETP-0020	A Novel Hybrid Method Based on the Sliding Window Method for the Estimation of the State of Health of the Proton Exchange Membrane Fuel Cell
2023-01-7002	23CETP-0009	Matching and Optimization Design of Electric Drive Assembly Mounting System of Electric Vehicle
2023-01-7003	23CETP-0005	An Experimental Study on Soot Particles Size Distribution and Nanostructure Evolution at Different Tailpipe Positions of a Dedicated Hybrid Engine
2023-01-7004	23CETP-0036	Simulation Study on the Effect of In-Cylinder Water Injection Mass on Engine Combustion and Emissions Characteristics
2023-01-7005	23CETP-0006	Simulation Study on High Expansion Ratio Dedicated Hybrid Engine for Hybrid Commercial Vehicle Application
2023-01-7006	23CETP-0034	Energy Transformation Propelled Evolution of Automotive Carbon Emissions
2023-01-7007	23CETP-0013	Energy Management Based on D4QN Reinforcement Learning for a Series-parallel Multi-speed Hybrid Electric Vehicle
2023-01-7008	23CETP-0022	Inlet Gas Temperature Control Technology for PEMFC Stack Test Benches
2023-01-7009	23CETP-0019	Experimental Study on Transient Response Characteristics of Commercial-size PEMFC under Varying Load
2023-01-7010	23CETP-0018	Study on Transient Tolerance Concentration of Cathode Ammonia in Proton Exchange Membrane Fuel Cells
2023-01-7011	23CETP-0011	Analysis of Dynamic Characteristics and Load Sharing Performance of Electric Driven Planetary Gear System Based on Electromechanical Coupling Model
2023-01-7012	23CETP-0031	Assisted Steering Control for Distributed Drive Electric Vehicles Based on Combination of Driving and Braking
2023-01-7013	23CETP-0021	Prediction of the Remaining Useful Life of the Proton Exchange Membrane Fuel Cell with an Integrated Health Index
2023-01-7014	23CETP-0023	Experimental Study on Energy Consumption and Emissions of Heavy-duty Hybrid Dump Truck
2023-01-7015	23CETP-0017	Leakage and Diffusion Analysis and Safety Research of Onboard Hydrogen Systems in Different Space
2023-01-7016	23CETP-0002	Optimization of Microporous Layer Composition at Varying Humidities for High-Performance Polymer Exchange Membrane Fuel Cell
2023-01-7017	23CETP-0026	Research on Injection Characteristics of Marine Ammonia Fuel Injector under Wide Temperature Range



2023-01-7018	23CETP-0045	Simulation Study of the Effect of Nozzle Position and Hydrogen Injection Strategy on Hydrogen Engine Combustion Characteristic
2023-01-7019	23CETP-0012	Analysis and Control of Gear Rattle Noise for E-axle
2023-01-7020	23CETP-0030	An Operating Point Adjustment Model Using PMP-GWO-Bi-LSTM for Range Extended Electric Vehicle
2023-01-7021	23CETP-0033	Design of a Permanent Magnet Biased Radial Magnetic Bearing for Energy Storage of Vehicle Flywheels
2023-01-7022	23CETP-0008	Torsional Vibration Attenuation of HEV Drivetrain Featuring on a Controllable Damper
2023-01-7023	23CETP-0025	Numerical Investigations on Formation Process of N ₂ O in Ammonia/Hydrogen Fueled Pre-chamber Jet Ignition Engine
2023-01-7024	23CETP-0029	Numerical Simulation of the Effect of In-cylinder Water Spraying on the Knock and Combustion Characteristics of a Hydrogen-argon Oxygen Engine
2023-01-7025	23CETP-0046	LES Study of the Mixing Process and Cyclic Variation of a Direct-Injection Hydrogen Engine
2023-01-7026	23CETP-0043	Improving Dynamic Response of PEMFC Anode Pressure in Dropped Load Scenarios through Split Range Control
2023-01-7027	23CETP-0041	Analysis of Rotor Dynamics Characteristics of Roots Hydrogen Circulation Pump
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2023-01-7029	23CETP-0024	A Multi-sine Excitation Signal Optimization Strategy for EIS Measurement of High-power Fuel Cells
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2023-01-7031	23CETP-0040	Transient Temperature Field Prediction of PMSM Based on Electromagnetic-heat-flow Multi-physics Coupling and Data-driven Fusion Modeling
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2023-01-7033	23CETP-0037	Knee-point Identification of Battery Degradation Trajectory Based on Constant Voltage Charging Capacity Variation
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2023-01-7035	23CETP-0028	Research on the Influence of Different Working Conditions on the Driving Range, Energy Consumption and Emissions of Heavy-duty Hybrid Buses
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2023-01-7037	23CETP-0044	Research on Air Mass Flow and Pressure Control Method for the Multi-stack Fuel Cell System Based on Model Predictive Control

