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任硕导时间	2024.12	任博导时间	/	E-mail	liyc17@foxmail.com
所属学科及学科方向	机械工程			研究方向 1	智能网联汽车优化控制
	车辆工程			研究方向 2	电动汽车能量管理
工作简历	2023.1 – 至今	北京信息科技大学，机电工程学院车辆系	副教授		
	2022.9 – 2022.12	北京信息科技大学，机电工程学院车辆系	讲师		
	2021.5 – 2022.8	航天三院，北京特种机械研究所总体室	工程师		
科研项目情况	<p>(1) 国家自然科学基金青年基金项目，融合多车交互感知的混合动力汽车驾驶行为与能量管理安全协同优化控制，2025-2027，主持</p> <p>(2) 企业委托项目，无人车辆端到端运动规划技术开发，2024-2025，主持</p> <p>(3) 北京市教委科研计划科技一般项目，融合多车运动交互感知的网联电动汽车柔性车队生态驾驶方法研究，2024-2026，主持</p> <p>(4) 北京信息科技大学校科研基金项目，网联电动汽车生态驾驶方法研究，2023-2024，主持</p> <p>(5) 国家自然科学基金面上项目，网联电动汽车深度强化学习能量管理及多车系统协同优化方法研究，2022-2026，参与</p>				
主要科研成果	<p>代表论文：</p> <p>[1] <b>Yuecheng Li</b>, Hongwen He, Amir Khajepour, Yong Chen, Weiwei Huo, Hao Wang. Deep reinforcement learning for intelligent energy management systems of hybrid-electric powertrains: Recent advances, open issues, and prospects. <i>IEEE Transactions on Transportation Electrification</i> 10(4) (2024): 9877 - 9903.</p> <p>[2] <b>Yuecheng Li</b>, Ziyi Zhao, Jingda Wu, Weiwei Huo, Hongwen He, Yong Chen. Multi-Vehicle Interaction-Aware Energy Management for Connected Hybrid Electric Vehicles via Deep Reinforcement Learning. in <i>Proceedings of IEEE International Conference on CYBER Technology in Automation, Control, and Intelligent Systems</i>, July 16-19, 2024, Copenhagen, Denmark.</p> <p>[3] <b>Yuecheng Li</b>, Hongwen He, Yong Chen, Hao Wang. A cloud-based eco-driving solution for autonomous hybrid electric bus rapid transit in cooperative vehicle-infrastructure systems: A dynamic programming approach. <i>Green Energy and Intelligent Transportation</i> 2.6 (2023): 100122.</p> <p>[4] Hongwen He, Yunlong Wang, Jianwei Li, Jingwei Dou, Renzong Lian, <b>Yuecheng Li</b>. An Improved Energy Management Strategy for Hybrid Electric Vehicles Integrating Multistates of Vehicle-Traffic Information. <i>IEEE Transactions on Transportation Electrification</i> 7.3 (2021): 1161-1172.</p> <p>[5] <b>Yuecheng Li</b>, Hongwen He, Amir Khajepour, Hong Wang, Jiankun Peng. Energy management for a power-split hybrid electric bus via deep reinforcement learning with terrain information. <i>Applied Energy</i> 255 (2019): 113762.</p> <p>[6] <b>Yuecheng Li</b>, Hongwen He, Jiankun Peng, Hong Wang. Deep Reinforcement Learning-based Energy Management for a Series Hybrid Electric Vehicle Enabled by History Cumulative Trip Information. <i>IEEE Transactions on Vehicular Technology</i> 68.8 (2019): 7416-7430.</p> <p>[7] <b>Yuecheng Li</b>, Hongwen He, Jiankun Peng. An adaptive online prediction method with variable prediction horizon for future driving cycle of the vehicle. <i>IEEE Access</i> 6 (2018): 33062-33075.</p> <p>[8] Jingda Wu, Hongwen He, Jiankun Peng, <b>Yuecheng Li</b>, Zhanjiang Li. Continuous reinforcement learning of energy management with deep Q network for a power split hybrid electric bus. <i>Applied Energy</i> 222 (2018): 799-811.</p> <p>[9] <b>Yuecheng Li</b>, Hongwen He, Jiankun Peng, Jingda Wu. Energy management strategy for a series hybrid electric vehicle using improved deep Q-network learning algorithm with prioritized replay. in <i>Proceedings of the</i></p>				

	<p>International Conference on Energy, Ecology and Environment November 21-25, 2018, Melbourne, Australia.</p> <p>[10] <b>Yuecheng Li</b>, Hongwen He, Jiankun Peng, Hailong Zhang. Power management for a plug-in hybrid electric vehicle based on reinforcement learning with continuous state and action spaces. in Proceedings of the 9th International Conference on Applied Energy, August 21-24, 2017, Cardiff, UK.</p> <p>专著:</p> <p>[1] <b>Yuecheng Li</b>, Hongwen He. Deep Reinforcement Learning-based Energy Management for Hybrid Electric Vehicles. Springer, 2022.</p> <p>专利:</p> <p>[1] 何洪文, 李岳骋, 彭剑坤. 一种基于确定性策略梯度学习的PHEV 能量管理方法. CN110341690A</p> <p>[2] 彭剑坤, 何洪文, 谭华春, 李岳骋, 李梦林. 一种基于深度强化学习的插电式混合动力车辆能量管理方法. CN108427985A</p> <p>[3] 何洪文, 谭华春, 彭剑坤, 李梦林, 李岳骋. 一种基于智能预测的插电式混合动力车辆的能量管理方法. CN108177648A</p> <p>[4] 何洪文, 李浩楠, 彭剑坤, 李岳骋, 李梦林. 一种机械式自动变速器换挡方法. CN108361366A</p>
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