

邓超

来源: 汽车与交通工程 【点击数: 2221】

姓名	邓超	性别	男	
职称	副教授	最终学位	博士	
出生年月	1986/5	电子邮箱	woc@wust.edu.cn	
专业	交通运输工程			
<p>个人简介: 武汉科技大学副教授, 硕士生导师, 智能汽车工程研究院人机交互与决策控制技术团队负责人, 国际华人因人因工程学会会员, 中国交通运输协会青年科技工作者工作委员会委员, 赤骥无人驾驶车队指导教师, 长期从事L3-L4级自动驾驶ROS系统和接管预警系统的科研工作, 《道路交通人因特性及安全评价与优化方法》核心主笔人之一, 提出驾驶认知数值仿真的安全评级机制, 入选ACT-R全球技术专家库。讲授“数据挖掘技术及应用”等研究生和本科课程。近五年来, 主持国家自然科学基金、湖北省自然科学基金等项目近10项, 发表论文30余篇, 授权专利5项, 获国际华人因人因工程学会年度最佳论文奖1项。</p> <p>工作经历: 2020年12月至今 武汉科技大学, 汽车与交通工程学院, 副教授 2019年7月至2020年11月 武汉科技大学, 汽车与交通工程学院, 讲师</p> <p>教育经历: 2015年9月至2019年6月 武汉理工大学, ITS&REI, 交通运输工程, 全日制博士生 2018年1月至2018年12月 加拿大University of Waterloo, 系统工程, 公派联培博士生</p> <p>主要研究方向 智能驾驶 (ROS系统、SLAM激光制图、模式识别、轨迹规划; 智能座舱、人机共驾、多模态感知、驾驶员模型)</p> <p>教学科研情况 (近五年) 项目: 1. 国家自然科学基金青年科学基金项目, 自动驾驶被动脱离状态下驾驶人应急接管认知机理研究, 2021-1至2023-12, 主持; 2. 湖北省自然科学基金计划青年项目, 高速公路团雾气候下驾驶应急响应预警机制研究, 2020-10至2022-10, 主持; 3. 湖北省教育厅科学技术研究计划青年人才项目, 基于“驾乘意图—车辆状态—动态环境”的碰撞风险综合态势感知方法, 2020-1至2021-12, 主持; 4. 教育部产学研合作协同育人项目, 基于人工智能的交通运输创新实验基地建设, 2021-2至2022-2, 主持; 5. 武汉科技大学本科教学研究项目, 考虑学生认知负荷的教学方式探索与实践, 2020-6至2020-12, 主持; 6. “运输车辆检测、诊断与维修技术”交通行业重点实验室开放课题, 考虑驾驶应激行为的雾区车辆智能引导方案, 2019-10至2021-10, 主持; 7. 中央高校基本科研业务费专项基金, 人机共驾下的控制权智能交互机理研究, 2018-1至2018-12, 主持。</p> <p>论文: 1. Construction of traffic and transportation engineering innovation lab based on artificial intelligence [C]. Proceedings of 2021 International Conference on Electronic Commerce, Engineering Management and Information Systems. Toronto, Canada, 2021, 2: 459-463. (EI, 序1, 论文宣讲, 2021.02.25-2021.02.27) 2. Talent Training Mode Reform Based on the “Specialty Plus Smart Transportation” in Transportation Specialties [C]. Proceedings of 2021 5th International Conference on Education, Management and Social Science. Suzhou, China, 2021, 3: 544-547. (EI, 序5, 论文宣讲, 2021.03.27-2021.03.28) 3. Auditory distraction driving on brain computer interface [C]. Proceedings of 16th IEEE Conference on Industrial Electronics and Applications. Southwest Jiaotong University, Chengdu, China, 2021. (Accepted, EI, 序1, 论文宣讲, 2021.08.01-2021.08.04) 4. An experimental investigation of novice and experience drivers' performance in a car following [C]. Proceedings of 4th IEEE International Conference on Intelligent Autonomous Systems. Peking University, Beijing, China, 2021. (Accepted, EI, 序1, 论文宣讲, 2021.10.07-2021.10.10) 5. Study on LiDAR obstacle detection for FSAC racing car Chiji [C]. Proceedings of 4th IEEE International Conference on Intelligent Autonomous Systems. Wuhan University of Science and Technology, Wuhan, China, 2021. (Accepted, EI, 序1, 论文宣讲, 2021.05.24-2021.05.26) 6. Modeling driver take-over reaction time and emergency response time using an integrated cognitive architecture [J]. Transportation Research Record, 2019, 2673(12): 380-390. (SCI, 序1) 7. A field operational test in China: Exploring the effect of an advanced driver assistance system on driving performance and braking behavior [J]. Transportation Research Part F: Traffic Psychology & Behaviour, 2019, 65: 730-747. (SSCI/EI, 序2) 8. Modeling the effect of limited sight distance through fog on car-following performance using QN-ACTR cognitive architecture [J]. Transportation Research Part F: Traffic Psychology & Behaviour, 2019, 65: 643-654. (SSCI/EI, 序1) 9. Predicting drivers' direction sign reading reaction time using an integrated cognitive architecture [J]. IET Intelligent Transport Systems, 2018, 13(4): 622-627. (SCI/EI, 序1) 10. Driving style recognition method using braking characteristics based on hidden Markov model [J]. PLoS One, 2017, 12(8): e0182419. (SCI, 序1) 11. Modeling driver take-over reaction time and emergency response time using an integrated cognitive architecture [C]. Proceedings of Transportation Research Board 98th Annual Meeting. Washington State Convention Center, Washington D.C., U.S.A. (Top Conference on Transportation, 序1, 论文宣讲, 2019.01.12-2019.01.17) 12. Modeling driver take-over reaction time using an integrated cognitive architecture [C]. Proceedings of 2nd International Meeting of Human and Technology. Marriott Downtown, Philadelphia, U.S.A. (序1, 论文宣讲, 2018.10.03)</p>				

13. A car following model based on safety margin considering human and road factors [C]. Proceedings of Transportation Research Board 100th Annual Meeting. Washington State Convention Center, Washington D.C., U.S.A. (Top Conference on Transportation, 序1, 学术海报展示, 2021.01.05-2021.01.08)
14. Effect of distracted driving with auditory tasks on driving safety using an integrated cognitive architecture [C]. Proceedings of Transportation Research Board 99th Annual Meeting. Washington State Convention Center, Washington D.C., U.S.A. (Top Conference on Transportation, 序1, 学术海报展示, 2020.01.12-2020.01.16)
15. Traffic sign recognition task cognitive integration model based on the ACT-R cognitive structure [C]. Proceedings of 4th International Conference on Transportation Information and Safety. University of Alberta, Banff, Canada, 2017:337-342. (EI, 序1, 论文宣讲, 2017.08.07-2017.08.10)
16. Clustering-based lateral longitudinal target recognition of in-vehicle LIDAR data [C]. Proceedings of 16th COTA International Conference of Transportation Professionals. Shanghai Maritime University, Shanghai, P. R. China: 2016, 308-321. (EI, 序1, 论文宣讲, 2016.07.06-2016.07.09)
17. Driver's cognitive workload and driving performance under traffic sign information exposure in complex environments: A case study of the highways in China [J]. International Journal of Environmental Research and Public Health, 2017, 14(2): 203.(SCI/SSCI, 序5)
18. 人机共驾车辆驾驶人接管过程的认知体系结构模型[D]. 武汉理工大学. 2019. (序1)

专利:

1. 一种带反光刻度的城市内涝期道路水深检测装置: 202022380414.5.2020-4-16. 序1;
2. 一种智能道路可变标线: 201611110651.1. 2016-9-6. 序4;
3. 一种多功能道路实验车平台: 201610115542.2. 2016-3-1. 序6;
4. 路锥自动回收装置及其回收方法: 201610804647.9. 2016-9-6. 序6;
5. 基于图像识别的驾驶员负荷检测车载装置: 201710237440.2. 2017-4-12. 序6.

获奖:

1. International Chinese Association for Human Factors "Best Paper Award of the Year" (论文: Modeling driver take-over reaction time using an integrated cognitive architecture, 序1). Philadelphia, U.S.A., 2018.10;
2. 武汉科技大学首届“课程思政”教学设计大赛, 二等奖, 2020.06.

国内外学术组织机构任职情况

1. 国际华人工程学会会员;
2. 中国交通运输协会青年科技工作者工作委员会委员;
3. 担任《交通信息与安全》、IEEE Transactions on Intelligent Transportation Systems和Transportation Research Board等10余家国内外杂志评审专家;
4. 兼任长江云通集团有限公司技术顾问等职。

地址: 湖北省武汉市洪山区黄家湖大学城特1号 邮编: 430065

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