



一、个人简介

(包含基本个人信息, 主要经历等)

梁树人, 博士, 教授, 主要从事车辆故障排除知识工程、人机交互式虚拟系统、快速制造、产品开发与设计等领域研究, 主持 3 个项目, 发表论文 13 篇(近五年)。

二、研究方向

- (1) 车辆故障排除知识工程
- (2) 人机交互式虚拟系统
- (3) 快速制造
- (4) 产品开发与设计

三、科研项目

- (1) 互换性与技术测量, 主持, 经费 0.3 万。
- (2) 针对上肢障碍群体书籍阅读装置创新设计与应用研究, 主持, 经费 5 万。
- (3) 数控机床臂虚拟仿真开发, 横向项目, 2024-2026, 主持, 经费 0.5 万。

三、研究成果

计算机辅助设计技术

- (1) Digital Twin Architecture for Data-guided Intelligent Production Platforms, *Advances in Mechanical Engineering*, April, 2026 (SCI)
- (2) Gathering and Reusing the Specialist Knowledge in the Collaborative Environment for Automotive Troubleshooting Service, *International Journal of Knowledge-based Development*, December, 2026 (EI).
- (3) Development of a DT-Driven Virtual Reality for Human-Robot Collaborative Safety Education Using Formwork Design, *Computer animation and Virtual worlds*, Vol. 37, No. 1, e70098, 2026 (SCI).
- (4) Evaluation of Knowledge-driven Virtual Counselors Framework to Provide Automotive Troubleshooting Advice, *Proc. IMechE, Part D: Journal of Automobile Engineering*, June, 2025 (SCI).
- (5) A Novel Ontology-assisted Inference Platform in Automotive Troubleshooting Tasks, *Proc. IMechE, Part D: Journal of Automobile Engineering*, Vol 239, No. 8, pp. 3682-3702, 2025 (SCI).
- (6) Study on Ontological Knowledge Integration of Micromachining for Collaborative Process, *Journal of Advanced Manufacturing Systems*, Vol. 23, No. 1, pp. 61-93, 2024 (EI).
- (7) Study on an Architecture of Ontology-based Task Modeling and Deducing for Automotive Troubleshooting Service, *Proc. IMechE, Part D: Journal of Automobile Engineering*, Vol. 238, No. 1, pp. 110-127, 2024 (SCI).
- (8) A knowledge with ontology representation for product life cycle to support eco-design activities, *Journal of Engineering, Design, and Technology*, Vol. 4, No. 4, pp. 991-1026, 2023 (EI).
- (9) An approach with multi-tier automotive knowledge formalization for troubleshooting activities, *Proc. IMechE, Part D: Journal of Automobile Engineering*, Vol. 237, No. 1, pp. 244-265, 2023 (SCI).

- (10) Knowledge Representation of Decision Communications in Scheme for Automotive Troubleshooting Service, Proc. IMechE, Part D: Journal of Automobile Engineering, Vol. 236, No. 9, pp. 2200-2215, 2022 (SCI).

数字学习及内容

- (11) Instruction and Development of a Digital Twin-based Robotic Arm Platform in Course of Digital Technology Practice, International Journal of Mechanical Engineering Education, January, 2026 (SCI).
- (12) A VR-based Wiring Learning Platform for Promoting Practice Experience of Electrical Engineering”, Computer Applications in Engineering Education, Vol. 32, No. 2, 2024 (SCI).
- (13) Evaluation of an Immersive VR-based Chemical Production Safety Learning Using a Transferable Psychosomatic Approach, International Journal of Engineering Education, Vol. 39, No. 4, pp. 777-797, 2023 (SCI).

四、联系方式

电子邮箱: jenshuliang@fjismu.edu.cn

通讯地址: 福建省三明市三元区荆西街道荆东路 25 号