

计算机集成制造系统

第 27 卷第 6 期

2021 年 6 月

目 次

数字化/网络化/智能化制造技术

- 基于迁移学习的刀具剩余寿命预测方法 蔡伟立,胡小锋,刘梦湘(1541)
- 整体叶盘自适应柔性抛光效率优化 淮文博,史耀耀,蔺小军(1550)
- 基于深度学习的资源投入问题算法 陆志强,任逸飞,许则鑫(1558)
- 空间约束下多目标拆卸线平衡问题的改进狼群算法 蒋 晋,张则强,谢梦柯,蔡 宁(1569)
- 基于长短期记忆网络的装配工艺语义识别方法 陈治宇,鲍劲松,郑小虎,丁司懿,刘天元(1582)
- 基于知识挖掘的航天产品装配工时定额和管理系统 赵文浩,邢香园,王 治,万 峰,吴剑锋,陈瑞启(1594)
- 基于数字孪生的离散制造车间可视化实时监控方法 吴鹏兴,郭 宇,黄少华,杨能俊,熊伟杰,郭具涛(1605)
- 数字孪生驱动的悬臂式掘进机虚拟操控技术 ... 张旭辉,张 超,王妙云,王 岩,杜昱阳,毛清华,吕欣媛(1617)
- 基于深度支持向量机的曲轴智能识别方法 杨泽青,王春方,彭 凯,刘丽冰,张亚彬(1629)
- 智能车间质量数据集成及可视化分析平台设计 陈 亮,吴梦婷(1641)
- 基于机械结构形态的三维 CAD 模型检索 徐赐军,田 柳,李炜龙,黄松林(1650)
- 本体驱动的复杂产品系统设计信息重用框架 王昊琪,李 浩,文笑雨,罗国富(1662)
- 面向智能制造的不规则零件排样优化算法 高 勃,张红艳,朱明皓(1673)
- 云制造模式下差异化产品多时序生产优化 单子丹,李雲竹,盛晨辉(1681)
- 移动边缘计算环境下服务工作流容错调度算法 袁友伟,黄锡恺,俞东进,李忠金(1693)
- 基于时间递推建模及交叉熵算法求解柔性作业车间调度问题 杨艳华,姚立纲(1703)
- 面向绿色制造的半组合式船用曲轴结构件生产车间多目标调度优化 段建国,李豪晨,张青雷(1714)
- 有决策时间窗匹配问题的决策优化支持模型 张海平,邓建新(1728)
- 工业产线控制系统中信息表征的有序度算法模型及应用 吴晓莉,王琳琳,张伟伟,顾志峰(1741)
- 不完全维修条件下的备件多级库存优化 寇贞贞,李苏剑,顾 涛,吴秀丽(1749)
- 考虑备件弹性订货的动车组部件分阶段维护决策 何 勇,王 红,李振华,蒋祖华(1760)
- 面向云计算部署方案评价的区间犹豫模糊双重妥协评价方法 彭定洪,黄子航,王铁旦,彭 勃(1768)
- 基于可靠性可信性分析的云制造服务组合优化 李永湘,姚锡凡,刘 敏(1780)

企业管理与物流技术

- 跨层穿梭车仓储系统复合作业路径规划 鲁建厦,陈寿伍,易文超,汤洪涛(1799)
- 考虑拆分策略的智能仓库订单拣选优化问题 万明重,蒋忠中,秦绪伟,乔 双,李铭阳(1809)
- 基于车辆共享的多中心共同配送联盟优化 王 勇,周 雪,刘 永,许茂增(1820)
- 考虑质量和延保服务的多产品供应链网络均衡 孙晋怡,周 岩,曲箫宇(1833)

Computer Integrated Manufacturing Systems

Vol .27 No .06 June 2021

Contents

Prediction method of tool remaining useful life based on transfer learning	CAI Weili, HU Xiaofeng, LIU Mengxiang (1541)
Optimization of adaptive flexible blisk polishing efficiency ...	HUAI Wenbo, SHI Yaoyao, LIN Xiaojun (1550)
Deep learning algorithm for resource investment problem	LU Zhiqiang, REN Yifei, XU Zexin (1558)
Improved wolf pack algorithm for multi-objective disassembly line balancing problem under space constraints	JIANG Jin, ZHANG Zeqiang, XIE Mengke, CAI Ning (1569)
Semantic recognition method of assembly process based on LSTM	CHEN Zhiyu, BAO Jingsong, ZHENG Xiaohu, DING Siyi, LIU Tianyuan (1582)
Man-hour quota and management system of aerospace product assembly process based on knowledge mining ...	ZHAO Wenhao, XING Xiangyuan, WANG Zhi, WAN Feng, WU Jianfeng, CHEN Ruiqi (1594)
Visual real-time monitoring method for discrete manufacturing workshop based on digital twin	WU Pengxing, GUO Yu, HUANG Shaohua, YANG Nengjun, XIONG Weijie, GUO Jutao (1605)
Digital twin-driven virtual control technology of cantilever roadheader	ZHANG Xuhui, ZHANG Chao, WANG Miaoyun, WANG Yan, DU Yuyang, MAO Qinhua, LYU Xinyuan (1617)
Crankshaft intelligent recognition method based on deep support vector machine	YANG Zeqing, WANG Chunfang, PENG Kai, LIU Libing, ZHANG Yabing (1629)
Intelligent workshop quality data integration and visual analysis platform design	CHEN Liang, WU Mengting (1641)
3D CAD model retrieval based on mechanical structure morphology	XU Cijun, TIAN Liu, LI Weilong, HUANG Songlin (1650)
Reuse framework method of ontology-driven system design information	WANG Haoqi, LI Hao, WEN Xiaoyu, LUO Guofu (1662)
Optimization algorithm of irregular parts layout for intelligent manufacturing	GAO Bo, ZHANG Hongyan, ZHU Minghao (1673)
Multi-timing production of differentiated products in cloud manufacturing mode	SHAN Zidan, LI Yunzhu, SHENG Chenhui (1681)
Fault-tolerant scheduling algorithm for service workflow in MEC environment	YUAN Youwei, HUANG Xikai, YU Dongjin, LI Zhongjin (1693)
Time recursive modeling and cross entropy algorithm for flexible job shop scheduling problem	YANG Yanhua, YAO Ligang (1703)
Green manufacturing-oriented multi-objective scheduling optimization for half built-up marine crank shaft component workshop	DUAN Jianguo, LI Haochen, ZHANG Qinglei (1714)
Decision optimization support model for matching problem with decision time window	ZHANG Haiping, DENG Jianxin (1728)
Analysis and application of order degree in intelligent manufacturing line control system based on information characterization	WU Xiaoli, WANG Linlin, ZHANG Weiwei, GU Zhifeng (1741)
Multi-echelon inventory optimization of spare parts under imperfect maintenance conditions	KOU Zhenzhen, LI Sujian, GU Tao, WU Xiuli (1749)
Multi-phase preventive maintenance decision for single component of electric multiple unit considering flexible or -dering of spare parts	HE Yong, WANG Hong, LI Zhenhua, JIANG Zuhua (1760)
Interval hesitant fuzzy double compromise evaluation method for cloud computing deployment evaluation	PENG Dinghong, HUANG Zihang, WANG Tiedan, PENG Bo (1768)
Cloud manufacturing service composition optimization based on reliability and credibility analysis	LI Yongxiang, YAO Xifan, LIU Min (1780)
Path planning of compound operations in tier-to-tier multi-shuttle warehouse system	LU Jiansha, CHEN Shouwu, YI Wenchao, TANG Hongtao (1799)
Optimization for order picking problem with splitting policy in smart warehouses	WAN Mingzhong, JIANG Zhongzhong, QIN Xuwei, QIAO Shuang, LI Mingyang (1809)
Multi-center joint distribution alliance optimization based on vehicle sharing	WANG Yong, ZHOU Xue, LIU Yong, XU Maozeng (1820)
Equilibrium decisions of multi-product supply chain network considering quality and extended warranty service	SUN Jinyi, ZHOU Yan, QU Xiaoyu (1833)