



ISSN 1006-5911  
CODEN JJZXFN

# 计算机集成制造系统

## Computer Integrated Manufacturing Systems

基于射频识别库存管理的无人机三维路径规划

鲁建厦 赵林斌 汤洪涛



中国兵器工业集团第 210 研究所 主办

2018 年第 24 卷 第 12 期

万方数据

# 计算机集成制造系统

第 24 卷第 12 期

2018 年 12 月

## 目 次

### 数字化/智能化/网络化制造技术

- 基于多源数据的两化融合绩效研究分析 ..... 李 君,付宇涵,成 雨(2921)
- 钛合金介观尺度铣削表面粗糙度特征分析及工艺优化 ..... 张 翔,潘旭东,王广林(2933)
- 五轴多工序加工检测夹具下的误差成本优化分析 ..... 丁杰雄,李 菲,吕 强,杜 丽,王 伟(2941)
- 碳限额与交易下多配方—多铁种高炉生产计划优化 ..... 杨 烨,陈伟达,魏 莉(2953)
- 飞机自动钻铆并联调姿托架标定方法 ..... 王志浩,陈文亮,王 慧,潘国威,王 珉(2964)
- 基于公差图的飞机部件交点装配数字化协调方法 ..... 朱永国,肖 欢,刘春锋,曾 天(2975)
- 面向航空发动机装配过程的信息追溯与过程监控 ..... 李联辉,尹冠飞,莫 蓉(2986)
- 基于 Kriging 模型和两目标约束应对策略的代理优化算法 ..... 张建侠,马义中,张延静,欧阳林寒(3001)
- 基于维修优先级与寿命分布的多部件系统竞争式维修策略 ..... 姚运志,孟 晨,王 成,李宝晨(3008)
- 可靠度约束下不完全预防性维护经济优化模型 ..... 张友鹏,杨凯雄,石 磊(3019)
- 面向智能物联网的动态负荷预测量子进化方法 ..... 王 铮,王宇乐,王万良(3027)
- 基于制造活动的制造能力建模及其度量模型 ..... 郑 军,王黎航(3038)
- 面向广义能耗的柔性作业车间调度优化模型 ..... 李聪波,雷焱绯,肖漆鸽,沈 欢(3050)
- 柔性作业车间调度的改进邻域结构混合算法 ..... 赵诗奎(3060)
- 基于能量指标的 DELTA 并联机器人拾放轨迹参数优化及验证 ..... 解则晓,李 斌,任 凭(3073)

### 产品创新开发技术

- 基于超网络的协同产品创新知识网络稳定性 ..... 苏加福,杨 育,张 娜(3082)
- 包含构件成组约束的多目标产品架构模块划分 ..... 卫军朝,闫秀天,张国渊(3096)
- 基于继承拉丁超立方采样与局部 Kriging 近似的可靠性设计优化 ..... 李晓科,马 军,陈振中,文笑雨,邱浩波(3107)
- 团队创新中的异步协作行为及其对产出的影响 ..... 孙 艳,刘肖健,赵 宇(3120)

### 企业管理与物流技术

- 基于射频识别库存管理的无人机三维路径规划 ..... 鲁建厦,赵林斌,汤洪涛(3129)
- 多种形式偏好信息下考虑主体心理行为的双边匹配方法 ..... 张 笛,孙 涛,闫超栋,陈 晔,万良琪(3136)
- 不确定环境下考虑群体冲突与指标关联的应急群决策 ..... 常建鹏,陈振颂,周国华(3144)
- Internet 下双渠道闭环供应链动态模型及其预测控制 ..... 郭海峰(3157)
- 两端式同轨双车运行模式的货位分配策略 ..... 蔡安江,蔡 曜,郭师虹,苏晓峰,王 坚(3165)
- 双载式多层穿梭车仓储系统复合作业路径优化 ..... 杨 玮,岳 婷,刘 江,张璐燕(3178)
- 不确定环境下产品供应链碳足迹优化 ..... 杨传明(3189)

《计算机集成制造系统》再次入选“中国国际影响力优秀学术期刊” ..... (2932)

# Computer Integrated Manufacturing Systems

Vol .24 No .12 Dec .2018

## Contents

Research and analysis on efficiency and benefit of integration of industrialization and informatization based on multi-source data .....	LI Jun, FU Yuhan, CHENG Yu (2921)
Surface morphology analysis and process optimization in micro-milling of titanium alloy .....	ZHANG Xiang, PAN Xudong, WANG Guanglin (2933)
Cost analysis and optimization relate to error transmission for multistage manufacturing process with detecting fixture on five-axis machine tool .....	DING Jiexiong, LI Fei, LYU Qiang, DU Li, WANG Wei (2941)
Multi-recipe and multi-product blast furnace production planning under Carbon Cap and Trade policy .....	YANG Ye, CHEN Weida, WEI Li (2953)
Calibration method of aircraft automatic drilling and riveting parallel posture adjustment bracket .....	WANG Zhihao, CHEN Wenliang, WANG Hui, PAN Guowei, WANG Min (2964)
Digital coordination method for aircraft component intersection assembly based on tolerance-map .....	ZHU Yongguo, XIAO Huan, LIU Chunfeng, ZENG Tian (2975)
Information tracking and process monitoring for aero-engine assembly .....	LI Lianhui, YIN Guanfei, MO Rong (2986)
Surrogate-based optimization algorithm based on Kriging models and bi-objective constraint-handling strategy .....	ZHANG Jianxia, MA Yizhong, ZHANG Yanjing, OUYANG Linhan (3001)
Competitive maintenance strategy for multi-component system based on maintenance priority and life distribution .....	YAO Yunzhi, MENG Chen, WANG Cheng, LI Baochen (3008)
Economic optimization model for imperfect preventive maintenance under reliability constraints .....	ZHANG Youpeng, YANG Kaixiong, SHI Lei (3019)
Smart Internet of things oriented dynamic load forecasting based on quantum evolution .....	WANG Zheng, WANG Yule, WANG Wanliang (3027)
Manufacturing capability modeling and measurement model based on manufacturing activity .....	ZHENG Jun, WANG Lihang (3038)
Flexible job shop scheduling optimization model for generalized energy .....	LI Congbo, LEI Yanfei, XIAO Qinge, SHEN Huan (3050)
Hybrid algorithm based on improved neighborhood structure for flexible job shop scheduling .....	ZHAO Shikui (3060)
Energy-based optimization and experimental validation of pick-and-place trajectories for DELTA parallel robot .....	XIE Zexiao, LI Bin, REN Ping (3073)
Stability of collaborative product innovation knowledge network based on super-network .....	SU Jiayu, YANG Yu, ZHANG Na (3082)
Multi-objective module division method for product architecture incorporating component grouping constraints .....	WEI Junchao, YAN Xiutian, ZHANG Guoyuan (3096)
Reliability-based design optimization using inherited Latin hypercube sampling and local Kriging approximation .....	LI Xiaoke, MA Jun, CHEN Zhenzhong, WEN Xiaoyu, QIU Haobo (3107)
Asynchronous collaboration in product design team and its influence to outcome .....	SUN Yan, LIU Xiaojian, ZHAO Yu (3120)
Three dimensional path planning on unmanned aerial vehicle based on radio frequency identification inventory management .....	LU Jiansha, ZHAO Linbin, TANG Hongtao (3129)
Two-sided matching method considering psychological behavior of agents based on multi-form preference information .....	ZHANG Di, SUN Tao, YAN Chaodong, CHEN Ye, WAN Liangqi (3136)
Emergency decision making considering group conflict and evaluation indexes correlation under the uncertain environment .....	CHANG Jianpeng, CHEN Zhensong, ZHOU Guohua (3144)
Dynamic model and model predictive control of dual-channel closed-loop supply chain on Internet .....	GUO Haifeng (3157)
Storage location assignment strategy of double-crane in automated warehouse .....	CAI Anjiang, CAI Yao, GUO Shihong, SU Xiaofeng, WANG Jian (3165)
Routing optimization for compound operations of double-loading multi-tier shuttle warehousing system .....	YANG Wei, YUE Ting, LIU Jiang, ZHANG Juyan (3178)
Optimum analysis on product supply chain carbon footprint under uncertain environment .....	YANG Chuanming (3189)