

中国科技核心期刊
中国航空学会会刊

ISSN 1671-654X
CN 61-1276/TP

航空计算技术

AERONAUTICAL COMPUTING TECHNIQUE

第49卷 第6期 (卷终) Vol.49 No.6



中国航空工业集团有限公司 主管
航空工业西安航空计算技术研究所 主办
中国·西安

6
2019

目次
计算方法

区域民航货运网络特性分析	潘卫军,唐嘉豪,艾毅,等(1)
小型活塞动力无人机螺旋桨选型方法研究	赵凯,刘斌(5)
基于贪心算法的航班-登机口模型	黄邦菊,熊惠敏,朱代武,等(10)
带级间连接托的高超声速飞行器分离干扰研究	乔宇航,石泳,赵飞(14)
一种改进的大圆航线距离计算方法	王亮亮,刘文学,滕飞,等(18)
基于飞行数据的航空器离场燃油消耗评估模型	黄倩文,张明,刘思涵(23)
基于 RBF 神经网络的相对导航信息融合方法	孙瑶洁,熊智,李文龙,等(27)
基于 TOPSIS- GRA 的空管航班正常管理绩效评价	卿原,张洪海,张启钱,等(33)
基于 ITDS 的机场网络构建及分析	刘彤丹,王艳军(38)
面向航路燃油预测的航迹聚类	张朋,李杰,赵志奇,等(44)
缓冲器参数对拦阻钩作动性能的影响研究	王慧龙,魏小辉,印寅,等(48)
飞机辅助排气口流动特性研究	吴博宇,裴后举,崔永龙,等(53)
基于 PSO- BP 神经网络的终端区拥堵等级预测模型	高旗,初建宇,李印凤(57)
基于贝叶斯网络的北斗接收机评估模型研究	颜廷龙,李瑛,王凤芹(62)
基于自适应细化积分的流固耦合荷载传递方法	丁泽楷,程攀,张武(66)
基于层次分析法的管制员心理倾向性模糊综合评价研究	马学鹏,武丁杰,赖桂瑾(71)

计算机应用

$\mu\text{C}/\text{OS}-\text{II}$ 在 TMS320F2812 上的移植设计与实现	薛一哲,霍峰(75)
多总线加固计算机设计与实现	侯轶宸(79)
基于混合总线的数据采集记录系统设计	陈颖图,雷偲凡(81)
基于 AADL 和 HiP- HOPS 的 IMA 系统安全性分析方法研究	杨海云,孙有朝,阮宏泽(85)
基于 JTAG 协议的 FPGA 在线加载	孙少华,屈盼让,韩佳玮(89)
基于 EMIF 接口及 CPLD 的 CAN 接口设计和实现	朱耀国,秦冲,屈盼让(92)
FPGA- DDR3 电路设计与测试验证	赵谦,刘婷婷,邓豹(96)
面向增强合成视景系统的红外成像仿真研究	余冠锋,邹昌昊,程岳(100)
一种动态可重构 3 + 1 容错架构设计	白晨,马小博,李亚锋,等(104)
基于国产关键软硬件的机载数字地图处理机设计与实现	詹思维,林清(107)

综述报告

机场机坪塔台自动化系统建设方案	庄青,席玉华(110)
点汇聚技术的发展与应用研究	游录宝,张军峰,马林南(114)
基于安全性分析的通用飞机航电系统架构设计	杨金龙(120)
航班延误预测方法研究综述	刘博,叶博嘉,田勇,等(124)

CONTENTS

Computing Method

- Analysis on Characteristics of Regional Civil Aviation Freight Network PAN Wei-jun, TANG Jia-hao, AI Yi, et al (1)
- A Propeller Selection Method for Small Piston-prop UAV ZHAO Kai, LIU Bin (5)
- Flight Gate Assignment Model Based on Greedy Algorithm HUANG Bang-ju, XIONG Hui-min, ZHU Dai-wu, et al (10)
- Study on Separation Interference on Hypersonic Vehicle with Bracket Stage Connector QIAO Yu-hang, SHI Yong, ZHAO Fei (14)
- An Improved Method for Calculating the Distance of Large Circle Routes WANG Liang-liang, LIU Wen-xue, TENG Fei, et al (18)
- Aircraft Departure Fuel Consumption Assessment Model Based on Flight Data HUANG Qian-wen, ZHANG Ming, LIU Si-han (23)
- Relative Navigation Information Fusion Method Based on RBF Neural Network SUN Yao-jie, XIONG Zhi, LI Wen-long, et al (27)
- Performance Evaluation for ATC Flight Regularity Management Based on TOPSIS- GRA Method QING Yuan, ZHANG Hong-hai, ZHANG Qi-qian, et al (33)
- Construction and Analysis of Airport Network Based on ITDS LIU Tong-dan, WANG Yan-jun (38)
- Track Clustering for Route Fuel Prediction ZHANG Peng, LI Jie, ZHAO Zhi-qi, et al (44)
- Influence of Damper Parameters on Actuation Performance of Arresting Hook WANG Hui-long, WEI Xiao-hui, YIN Yin, et al (48)
- Research on Flow Characteristics of Aircraft Auxiliary Air Outlet WU Bo-yu, PEI Hou-ju, CUI Yong-long, et al (53)
- Prediction Model of Congestion Level in Terminal Area Based on PSO- BP Neural Network GAO Qi, CHU Jian-yu, LI Yin-feng (57)
- Research on Beidou Receiver Evaluation Model Based on Bayesian Network YAN Ting-long, LI Ying, WANG Feng-qin (62)
- Adaptive Refinement based Integral Method for Load Transfer in Fluid/Structure Interaction Problems DING Ze-kai, CHENG Pan, ZHANG Wu (66)
- Research on Fuzzy Comprehensive Evaluation of Controller's Psychological Tendency Based on Analytic Hierarchy Process MA Xue-peng, WU Ding-jie, LAI Gui-jun (71)

Computer Application

- Design and Implementation of μ C/OS - II Transplantation on TMS320F2812 XUE Yi-zhe, HUO Feng (75)
- Design and Implementation of Multi-bus Reinforcement Computer HOU Yi-chen (79)
- Design of Data Acquisition and Recording System Based on Hybrid Bus CHEN Ying-tu, LEI Si-fan (81)
- Research on Safety Assessment Method for IMA System Based on AADL and HiP- HOPS YANG Hai-yun, SUN You-chao, RUAN Hong-ze (85)
- Configuring FPGA Online Based on JTAG SUN Shao-hua, QU Pan-rang, HAN Jia-wei (89)
- Design and Realization of CAN Bus Interface Based on EIMF Interface and CPLD ZHU Yao-guo, QIN Chong, QU Pan-rang (92)
- Design and Verification of FPGA- DDR3 Circuit ZHAO Qian, LIU Ting-ting, DENG Bao (96)
- Research on Infrared Imaging Simulation for Enhanced Synthetic Vision System YU Guan-feng, ZOU Chang-hao, CHENG Yue (100)
- A Approach of Dynamic Reconfigurable 3 + 1 Fault Tolerant Architecture BAI Chen, MA Xiao-bo, LI Ya-feng, et al (104)
- Design and Implementation of Airborne Digital Map Processing System Based on Domestic Key Software and Hardware ZHAN Si-wei, LIN Qing (107)

Survey and Review

- Construction Scheme of Airport Apron Tower Automation System ZHUANG Qing, XI Yu-hua (110)
- Development and Application Research of Point Merge System YOU Lu-bao, ZHANG Jun-feng, MA Lin-nan (114)
- Application of Safety Analysis in Architecture Design of General Aircraft Avionics System YANG Jin-long (120)
- Review of Flight Delay Prediction Methods LIU Bo, YE Bo-jia, TIAN Yong, et al (124)