

目 次

航天工程 · 电子科学与技术

- 北斗三号系统中轨道地球卫星伪距多路径误差分析和改正 刘九龙, 曹月玲, 胡小工(1)
卫星导航系统功率增强子星座优化设计与性能分析 吕志成, 李峰嵘, 牟卫华, 黄 龙, 欧 钢(9)
高空气球外形计算及通用算法设计 周江华, 金伟城, 李智斌(17)
结构主导目标检测中的纹理随机化 王 梓, 毕道明, 周颖鑫, 孙晓亮, 于起峰(24)
变换器短路故障时整流发电机的暂态电流计算 侯畅武, 张晓锋, 黄 靖, 吴本祥(31)
采用局域像素匹配的随机抽样一致改进算法
..... 戴卫华, 刘盛春, 赵 慎, 彭 华, 张 昊, 黄志刚, 李小林(38)
电磁发射电池组杂散电感提取方法 龙鑫林, 严康为, 鲁军勇, 柳应全, 周 仁(44)

控制科学与工程 · 机械工程

- 二维弹道修正弹及其制导控制技术综述 邢炳楠, 杜忠华, 杜成鑫(53)
耐 1 200 ℃陶瓷瓦重复使用性能 陈思安, 李海玉, 迟蓬涛, 高 扬, 李俊宁, 解维华(69)
动圈式永磁直线直流电机的精英保留多种群遗传优化算法 吴 峻, 王 湘, 宋 蕾(76)
动初级高速六相直线感应电机工作特性分析 韩 一, 聂子玲, 许 金, 朱俊杰(85)
虚拟电流注入法在线补偿转子位置估算误差 彭 威, 乔鸣忠, 蒋 超, 高键鑫, 卢希浩(94)
考虑腐蚀因素的船体结构寿命预测方法 牟金磊, 滑 林, 张仲良, 吴 梵, 彭 飞, 闵少松(102)
改进 cell 密度聚类算法在空战目标分群中的应用 闫孟达, 杨任农, 王 新, 左家亮, 程慧明, 尚金祥(108)

信息与通信工程 · 计算机科学与技术

- 基于自由空间光的无人机集群通信载荷技术发展现状与趋势 苏绍璟, 童小钟, 魏俊宇, 吴 鹏(118)
主动谐波消除多电平射频脉宽调制策略及其性能分析 陈剑斌, 周 强, 朱 蕾, 张 江(128)
多径条件下米波 OFDM-MIMO 雷达波束性能及特性分析 熊智敏, 王党卫, 李星辉, 马晓岩(136)
融合神经网络与超像素的候选区域优化算法 王春哲, 安军社, 姜秀杰, 邢笑雪, 崔天舒(145)
基于中间表示规则替换的二进制翻译中间代码优化方法 李 男, 庞建民(156)
OODA-L 模式下的智能无人集群作战仿真建模框架 邹立岩, 张明智, 柏俊汝(163)

JOURNAL OF NATIONAL UNIVERSITY OF DEFENSE TECHNOLOGY

Vol. 43 No. 4

August 2021

CONTENTS

Aerospace Engineering · Electronic Science and Technology

- Analysis and correction of BDS - 3 MEO satellites pseudorange multipath error *LIU Jiulong, CAO Yueling, HU Xiaogong* (1)
Optimal design and performance analysis of satellite navigation system power-enhanced sub-constellation *LYU Zhicheng, LI Zhengrong, MOU Weihua, HUANG Long, OU Gang* (9)
High-altitude balloon shape calculation and general algorithm design *ZHOU Jianghua, JIN Weicheng, LI Zhibin* (17)
Texture randomization in structure-dominant object detection *WANG Zi, BI Daoming, ZHOU Jiexin, SUN Xiaoliang, YU Qifeng* (24)
Transient current calculation of rectifier generator under converter short circuit fault *HOU Changwu, ZHANG Xiaofeng, HUANG Jing, WU Benxiang* (31)
Improved random sampling consensus algorithm using local pixel matching *DAI Weihua, LIU Shengchun, ZHAO Shen, PENG Hua, ZHANG Hao, HUANG Zhigang, LI Xiaolin* (38)
Stray inductance extraction method for battery pack in electromagnetic launch *LONG Xinlin, YAN Kangwei, LU Junyong, LIU Yingquan, ZHOU Ren* (44)

Control Science and Engineering · Mechanical Engineering

- Review on two-dimensional trajectory correction projectile and its guidance and control technology *XING Bingnan, DU Zhonghua, DU Chengxin* (53)
High-temperature reusability of ceramics tile resistant to 1 200 °C *CHEN Sian, LI Haiyu, CHI Pengtao, GAO Yang, LI Junning, XIE Weihua* (69)
Multi-population genetic optimization algorithm with elite retention for moving-armature permanent magnet linear direct current motor *WU Jun, WANG Xiang, SONG Lei* (76)
Performance analysis of the moving primary six-phase linear induction motor *HAN Yi, NIE Ziling, XU Jin, ZHU Junjie* (85)
Rotor position estimation error compensated by virtual current injection method online *PENG Wei, QIAO Mingzhong, JIANG Chao, GAO Jianxin, LU Xihao* (94)
Life prediction method of hull structures considering corrosion factors *MU Jinlei, HUA Lin, ZHANG Zhongliang, WU Fan, PENG Fei, MIN Shaosong* (102)
Air combat target grouping based on improved CBSCAN algorithm *YAN Mengda, YANG Rennong, WANG Xin, ZUO Jialiang, JI Huiming, SHANG Jinxiang* (108)

Information and Communication Engineering · Computer Science and Technology

- Current status and trend of UAV swarm communication payload technology based on free space optical *SU Shaojing, TONG Xiaozhong, WEI Junyu, WU Peng* (118)
Selective harmonic elimination multi-level RF-PWM strategy and performance analysis *CHEN Jianbin, ZHOU Qiang, ZHU Lei, ZHANG Jiang* (128)
Multipath scenario beam performance and characteristics analysis for meter-wave OFDM-MIMO radar *XIONG Zhimin, WANG Dangwei, LI Xinghui, MA Xiaoyan* (136)
Region proposals optimization algorithm combining neural networks and superpixels *WANG Chunzhe, AN Junshe, JIANG Xiujie, XING Xiaoxue, CUI Tianshu* (145)
Intermediate code optimization method for binary translation based on intermediate representation rule replacement *LI Nan, PANG Jianmin* (156)
Modeling framework for intelligent unmanned swarm operation simulation under OODA-L pattern *ZOU Liyan, ZHANG Mingzhi, BAI Junru* (163)