



中文核心期刊 中国指挥与控制学会会刊 中国科技论文统计源期刊
中国科学引文数据库来源期刊 军事学核心期刊 中文科技期刊数据库
中国学术期刊(光盘版)收录期刊 RCCSE中国核心学术期刊 美国
《剑桥科学文摘》美国《乌利希期刊指南》英国《科学文摘》收录期刊

ISSN 1002-0640

CN 14-1138/TJ

火力与指挥控制

火力与指挥控制

FIRE CONTROL & COMMAND CONTROL

2021.5

第46卷 VOL46
第5期 No.5



ISSN 1002-0640



9 771002 064215

05>

北方自动控制技术研究所主办

火力与指挥控制

HUOLI YU ZHIHUI KONGZHI

本刊名由张爱萍将军题写

第 46 卷 第 5 期 (总第 314 期)

月刊 1976 年创刊 国内外公开发行

目 次

- 综述
- 地空无人平台协同作战应用研究 张宇, 张琰, 邱绵浩, 刘西侠, 卢方杰(1)
- 理论研究
- 空袭目标威胁动态评估 SPA 法 杨军佳, 武翠霞, 肖健(6)
- IBAS-LMBP 神经网络算法在图像压缩中的应用 王海军, 金涛, 门克内木乐(12)
- 基于毁伤机理的常导反舰作战发射弹量计算 韩光松, 曾筱晓, 李昭锐(18)
- 考虑区间弹性连接的结构动力学特性研究 陈亦文, 张锦光(22)
- 预制破片侵彻靶板临界跳飞角变化规律 陈材, 石全, 尤志锋, 白永生, 戈洪宇, 张芳(29)
- 面向多状态节点的移动 WSNs 的区域覆盖可靠性分析 史记征, 刘毓(35)
- 基于迭代误差补偿的发射点坐标精确求解方法 温永禄, 马骏, 黄蓓, 李强, 许诺(40)
- 基于组合分析与体系化要求评估的装备论证方法 卜广志(46)
- 基于 DoDAF 的地面无人作战系统作战概念设计方法 张宇, 郭齐胜(52)
- 考虑形状差异的 RFS 多目标跟踪性能评估方法 王碧垚, 王永齐, 顾鹏(58)
- 任务驱动的军事信息服务知识推理研究 张清辉, 杨楠, 梁政(64)
- 基于 DRL 与微分对策的无人机空战决策研究 杨霄, 李晓婷, 赵彦东, 张亚星(71)
- 基于历史数据挖掘的战场气象环境数据模糊预测算法 陈冲, 徐清宇, 程欣, 李克奇, 甄磊(76)
- 针对军事集群目标的 YOLOv3 改进算法研究 张奔, 徐锋, 李晓婷, 赵彦东(81)
- 基于规则的战术导弹需求量预测方法 陈小卫, 薄云, 韦国军(86)
- 基于密度聚类的地面发控解耦模型研究
- 工程实践
- 基于时延 Petri 网的机坪作业调度时间弹性提高方法 张书琴, 马辰婷, 朱嘉楠, 梅圆成(103)
- 基于改进 AHP 的多传感器协同探测效能评估方法 张宏斌, 鞠艳秋, 齐驰, 杨杰(108)
- 一种姿态测量装置在迫击炮上的应用 梁栋, 苏建斌, 聂鑫, 孙战, 段嗣宗(113)
- 基于参差中重频脉组的搜索雷达跟踪波束设计 朱永杰, 苏巧, 严超, 薛广然(117)
- 基于差分进化算法的运输直升机人员装载问题 田野, 田卫萍, 李文龙, 范文超(122)
- 空情态势报知训练器设计与实现 沈楠(127)
- 弹用电动舵机加载性能测试系统设计 谭亚丽, 宋科, 郭霞(132)
- 基于情景模型的重大突发事件人员应急疏散方法 马国普, 吴杨(137)
- 移动 WSNs 中基于跳数矢量的节点定位算法 张焕生, 崔炳德, 冯涛(142)
- 直升机武器系统误差分析 邱忠围, 李雷, 李晨阳(147)
- H_∞ 滤波 γ 因子对舰载惯导自对准的影响研究 王勇军, 徐景硕(150)
- DP 接口多屏显示在火控系统中的应用 赵庆嵒, 陈志勇, 鲁飞, 赵岩, 范文超, 郝强国(157)
- 电子战中预警兵力作战效能评估系统研究 汤国防, 高瑞明, 闫永恒(162)
- 试验技术
- 装备体系鉴定仿真试验床总体设计 曹裕华, 钱昭勇, 陈小卫, 王志鹏(168)
- 一种基于地表类型的地杂波快速仿真方法 张莹, 张晨晓, 廖理(174)
- 下期要目(102)

本期责任编辑 张婷婷, 姚庆辉, 宋薇

[期刊基本参数] CN14-1138/TJ * 1976 * m * A4 * 180 * zh * P * ¥60.00 * 1500 * 33 * 2021-05

Fire Control & Command Control

Vol. 46 No. 5 May. 2021

Contents

SURVEY

Research on the Ground-air Unmanned Platform Cooperative Combat Application

..... ZHANG Yu, ZHANG Yan, QIU Mian-hao, LIU Xi-xia, LU Fang-jie(1)

THEORY RESEARCH

A Dynamic Assessment Method of Air Attack Target Threat Based on SPA YANG Jun-jia, WU Cui-xia, XIAO Jian(6)

Research on Application of IBAS-LMBP Neural Network Algorithm in Image Compression WANG Hai-jun, JIN Tao, MENKE Nei Mu-le(12)

Calculating the Conventional Missiles for Anti-ship Combat Based on Damage Mechanism HAN Guang-song, ZENG Xiao-xiao, LI Zhao-rui(18)

Research on Dynamic Properties of a Structure Considering Interval Elastic Connection CHEN Yi-wen, ZHANG Jin-guang(22)

Change Law of Critical Ricochet Angle of Prefabricated Fragment Penetrating Target Plate

..... CHEN Cai, SHI Quan, YOU Zhi-feng, BAI Yong-sheng, GE Hong-yu, ZHANG Fang(29)

Study on Area Coverage-reliability of Wireless Sensor Networks of Multistate Nodes-oriented SHI Ji-zheng, LIU Yu(35)

Accurate Solution Method of Coordinates of Launch Points Based on Iterative Error Compensation

..... WEN Yong-lu, MA Jun, HUANG Bei, LI Qiang, XU Nuo(40)

Armament Demonstration Method Based on Portfolio Analysis and Systematization Demands Assessment BU Guang-zhi(46)

Operational Concept Design Method Based on DoDAF for Ground Unmanned Combat System ZHANG Yu, GUO Qi-sheng(52)

Performance Evaluation Considering Shape Difference for Multi-target Tracking Based on Random Finite Set

..... WANG Bi-yao, WANG Yong-qing, GU Peng(58)

Study on Knowledge Reasoning of Task Driven Military Information Service ZHANG Qing-hui, YANG Nan, LIANG Zheng(64)

Research on UAV Air Combat Decision Making Based on DRL and Differential Games

..... YANG Xiao, LI Xiao-ting, ZHAO Yan-dong, ZHANG Ya-xing(71)

Fuzzy Prediction Algorithm for Battlefield Meteorological and Environmental Data Based on Historical Data Mining

..... CHEN Chong, XU Qing-yu, CHENG Xin, LI Ke-qing, ZHEN Lei(76)

Research on the Improved YOLOv3 Algorithm for Military Cluster Targets ZHANG Ben, XU Feng, LI Xiao-ting, ZHAO Yan-dong(81)

Prediction Method for Demanded Quantity of Tactical Missiles Based on Rules CHEN Xiao-wei, BO Yun, WEI Guo-jun(86)

Research on Ground Launch Control Decoupling Model Based on Density Clustering

..... JI Hui-jun, LI Lin, LIU Jia, NING Wen-xue, ZHANG Peng-fei(92)

Research on the Bayesian Inference Model for Target Damage Prediction using Anti-ship Missiles

..... LI Cong, GUAN Ai-jie, CHEN Jian, XU Bo-ao(98)

ENGINEERING PRACTICE

Research on the Method for Improving Time Elasticity of Apron Operation Scheduling Based on Time Delay Petri Net

..... ZHANG Shu-qin, MA Chen-ting, ZHU Jia-nan, MEI Yuan-cheng(103)

Evaluation Method of Sensors Coordination Detection Efficiency Based on Modified AHP ZHANG Hong-bin, JU Yan-qiu, QI Chi, YANG Jie(108)

Application of an Attitude Measuring Device to a Mortar LIANG Dong, SU Jian-bin, NIE Xin, SUN Zhan, DUAN Si-zong(113)

A Tracking Beam Design of Searching Radar Based on MPRF Pulse-train in Stagger ZHU Yong-jie, SU Qiao, YAN Chao, XUE Guang-ran(117)

Research on the Personnel Carrying Loading Problem of Transport Helicopters Based on the Difference Evolutionary Algorithm

..... TIAN Ye, TIAN Wei-ping, LI Wen-long, FAN Wen-chao(122)

Design and Implementation of The Trainer of Air Situation Report SHEN Nan(127)

Design of the Loading Performance Test System for the Missile Electromechanical Actuator TAN Ya-li, SONG Ke, GUO Xia(132)

Research on Personnel Evacuation Method of Serious Emergency Based on Scenario Model MA Guo-pu, WU Yang(137)

Hop Vector-based Node Localization Algorithm in Mobile Wireless Sensor Networks ZHANG Huan-sheng, CUI Bing-de, FENG Tao(142)

Helicopter Weapon System Error Analysis QIU Zhong-wei, LI Lei, LI Chen-yang(147)

The Effect of γ Factor in H_∞ Filter on Self-alignment of the Shipborne SINS WANG Yong-jun, XU Jing-shuo(150)

Application of DP Interface for Multi-screen Display in Fire-control System

..... ZHAO Qing-lan, CHEN Zhi-yong, LU Fei, ZHAO Yan, FAN Wen-chao, HAO Qiang-guo(157)

Study on Evaluation System of Early Warning of Forces Combat Effectiveness in Electronic Warfare

..... TANG Guo-fang, GAO Rui-ming, YAN Yong-heng(162)

TEST TECHNIQUE

General Design on the Simulation Test-bed for Equipment System Evaluation

..... CAO Yu-hua, QIAN Zhao-yong, CHEN Xiao-wei, WANG Zhi-peng(168)

A Fast Simulation Method of Ground Clutter Based on Land Cover Type ZHANG Ying, ZHANG Chen-xiao, LIAO Li(174)