



中文核心期刊 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

FIRE CONTROL & COMMAND CONTROL

2018.4

第43卷 VOL43
第4期 No.4



ISSN 1002-0640



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 43 卷 第 4 期 (总第 277 期)

月刊 1976 年创刊 国内外公开发行

目次

综 述

基于 CBM 的军机持续适航管理

..... 张洋铭,陈云翔,罗广旭,刘 念(1)

理论研究

基于 BN-and-BP 神经网络融合的陆空联合作战效能评估

..... 周兴旺,从福仲,庞世春(3)

机动车辆辅助驾驶动态障碍物检测方法

..... 董大明(9)

基于 PCT 的弹丸膛内运动回波信号瞬时频率估计

..... 王 鉴,韩 焱,陈 平,王黎明,张丕状(13)

一种基于雷达资源管理优化的跟踪系统

..... 武 龙,许蕴山,龙文彪(18)

装备安全管理成熟度模型构建与应用

..... 程 程,徐吉辉,李 勇(22)

一种基于局部冲突再分配的改进 DSmT 方法

..... 张维华,孙启臣,张丽静(27)

高功率压制干扰模式下多个 GPS 干扰站联合部署问题

..... 张 博,何相勇,赵丽华,刘 辉(32)

基于 GIFSS-TOPSIS 的辐射源威胁评估方法

..... 张 莹,王红卫,郭晓陶,范翔宇(37)

基于 SIF 模式特性的曼彻斯特改进算法

..... 李 丞,张 玉,唐 波,刘 垒(42)

基于 LADRC 的四旋翼姿态解耦控制方法

..... 万 慧,齐晓慧,朱子薇,张 莹,孟丽洁(48)

隐身轰炸机挂载空射诱饵弹对地突防决策研究

..... 胡阳光,肖明清,孔庆春,宋海方,高春庆(52)

基于局部动态贝叶斯网络的无人机态势评估

..... 袁覃恩,慕晓冬,易昭湘,王诺娅(57)

针对重点任务航线保障的预警机航线规划

..... 戴 瑜,汪先超,汤子跃,张袁鹏(62)

一种基于外辐射源的弱目标检测跟踪算法

..... 段金英,李 盛,陈 恒(66)

PLS 通径模型的通信对抗装备系统效能评估分析

..... 罗 乐,葛启东,杨 昱,祁世民(71)

延时叠加密集假目标干扰的设置方法

..... 廖明飞,王 瑜(75)

态势图中几种“势”的表征方法

孙雅薇,周 超(79)

基于偏差熵的直觉模糊集多属性群决策方法

..... 李京峰,项华春,张洋铭,严雅榕(84)

基于贝叶斯网络模型的 BMD 系统效能评估

..... 闫永玲,张庆波,王宇峰(89)

机载软硬杀伤武器协同作战决策研究

..... 任 卫,张 安,胡 正(94)

国防工程中视频前景检测算法研究

..... 沈杜娟,李艾华,王 华,崔智高,郑 勇(99)

一种基于时差和多参数信息的加权联合分选算法

..... 郜丽鹏,单辉宇,张芳园(103)

具有自主修正投放轨迹的装备空投的建模与仿真

..... 许 飞,许世蒙,杜建华,曹贻鹏(109)

工程实践

基于 ELM 的航空发动机故障诊断方法

..... 崔建国,刘宏伟,陶书弘,于明月,高 阳(113)

用于混合动力汽车的双向 DC/DC 变换器控制设计

..... 石 俊,吴华杰(117)

基于 Bow-Tie 事故模型的军机适航条款选取方法

..... 崔利杰,丁 野,孙 超,任 博(122)

改进重构的自适应权重 Retinex 图像增强算法

..... 李忠海,陈灿灿,金海洋(127)

低快拍下模糊径向基神经网络波束形成算法

..... 冯晓宇,谢军伟,张 晶,王 博(132)

基于虚拟现实技术的装备模拟器炮长人机操控技术

..... 安亚飞,朱元武,刘永亮,王 维,朱 锐(136)

自干扰对消误差对射频注入系统的影响

..... 张 颖,王建业,成 钊,南 行(141)

测速弹道枪性能评定方法

..... 孟祥会,陈泽峰,景春阳(145)

基于 STM32 的引信多用途起爆电路设计

..... 陈海峰,聂伟荣(148)

有源相控“智能蒙皮”波束控制系统的设计与实现

..... 古 磊,竺小松(152)

干扰条件下基于 MMSE 准则的弹载雷达认知波形优化

..... 蒋孟燃,李 伟,兰 星,王玉玺(158)

一种新型“飞板”主动防护拦截效能分析

..... 尚宇晴,杜忠华,陈 曦,雷晓云(165)

一种改进的保障信息融合模型

..... 周伟祝,王 哲,李 彪,江式伟(169)

试验技术

高速 ADC 中具有失调对消的采样保持电路设计

..... 刘勇聪,王建业,连 振(174)

保障装备体系构建的系统工程方法

..... 魏兆磊,陈春良,王 磊,卢先波,程城今(178)

下期要目(98) 征文通知(183) 投稿须知(184)

本期责任编辑 王丽华,王海云

[期刊基本参数] CN14-1138/TJ * 1976 * m * A4 * 184 * zh * P * ¥20.00 * 1 500 * 39 * 2018-04

Fire Control & Command Control

Vol. 43 No. 4 Apr. 2018

Contents

SURVEY

Continued Airworthiness of Military Aircrafts Based on CBM ZHANG Yang-ming, CHEN Yun-xiang, LUO Guang-xu, LIU Nian(1)

THEORY RESEARCH

Effectiveness Evaluation of Air-ground Joint Operations Based on the BN-and-BP Neural Network

..... ZHOU Xing-wang, CONG Fu-zhong, PANG Shi-chun(3)

Detection of Moving Obstacles in Auxiliary Driving System DONG Da-ming(9)

Instantaneous Frequency Estimation for the Echo Signal of Projectile Motion in Bore Based on PCT

..... WANG Jian, HAN Yan, CHEN Ping, WANG Li-ming, ZHANG Pi-zhuang(13)

A Tracking System Based on Radar Resource Management Optimization WU Long, XU Yun-shan, LONG Wen-biao(18)

Construction and Application of Equipment Security Management Maturity Evaluation Model

..... CHENG Cheng, XU Ji-hui, LI Yong(22)

An Improved DSMT Algorithm Based on Local Conflict Redistribution ZHANG Wei-hua, SUN Qi-chen, ZHANG Li-jing(27)

Disposition Research of High-power Jamming Jointed-interfere Using Multiply GPS Interference Station

..... ZHANG Bo, HE Xiang-yong, ZHAO Li-hua, LIU Hui(32)

Emitter Threat Evaluating Method Based on GIFSS and TOPSIS ZHANG Ying, WANG Hong-wei, GUO Xiao-tao, FAN Xiang-yu(37)

An Improved Manchester Decoding Algorithm Based on SIF Mode Feature LI Cheng, ZHANG Yu, TANG Bo, LIU Lei(42)

Attitude Decoupling Control for Quadrotor Aircraft Based on Linear Active Disturbance Rejection Control Technique

..... WAN Hui, QI Xiao-hui, ZHU Zi-wei, ZHANG Ying, MENG Li-jie(48)

Research on the Decision Making in Formation Penetrating of Stealth Boomer with MALD

..... HU Yang-guang, XIAO Ming-qing, KONG Qing-chun, SONG Hai-fang, GAO Chun-qing(52)

Real-time Evaluation of UAV Situation Based on Local Dynamic Bayesian Network

..... YUAN Tan-en, MU Xiao-dong, YI Zhao-xiang, WANG Nuo-ya(57)

EWA Route Planning for Plane Support DAI Yu, WANG Xian-chao, TANG Zi-yue, ZHANG Yuan-peng(62)

A Weak Targets Detection and Tracking Algorithm Based on Passive Coherent Location Radar DUAN Jin-ying, LI Sheng, CHEN Heng(66)

Analytic Method of Communications Equipment System Effectiveness Evaluation Based on Partial Least Squares Path Model

..... LUO Le, GE Qi-dong, YANG Yu, QI Shi-min(71)

Setting Method of Dense-False-Target Jamming by Delay-overlapping Copied Radar Pulses LIAO Ming-fei, WANG Yu(75)

Characterization Method of Several Potential in Situation Picture SUN Ya-wei, ZHOU Chao(79)

Intuitionistic Fuzzy Multi-attribute Group Decision-making Method Based on Deviation Entropy

..... LI Jing-feng, XIANG Hua-chun, ZHANG Yang-ming, YAN Ya-rong(84)

Effectiveness Evaluation of BMD Based on Bayesian Network YAN Yong-ling, ZHANG Qing-bo, WANG Yu-feng(89)

Research on Cooperative Combat Decision of Airborne Hard and Soft Killing Weapons REN Wei, ZHANG An, HU Zheng(94)

Research on Video Foreground Detection Algorithm in National Defense Engineering

..... SHEN Du-juan, LI Ai-hua, WANG Hua, CUI Zhi-gao, ZHENG Yong(99)

Joint Sorting Algorithm Based on TDOA and Weighting Multi-Parameter Information GAO Li-peng, SHAN Hui-yu, ZHANG Fang-yuan(103)

The Modeling and Simulation of Autonomous Correction on the Trajectory of the Airdrop Equipment

..... XU Fei, XU Shi-meng, DU Jian-hua, CAO Yi-peng(109)

ENGINEERING PRACTICE

Aeroengine Fault Diagnosis Method Based on ELM CUI Jian-guo, LIU Hong-wei, TAO Shu-hong, YU Ming-yue, GAO Yang(113)

Bidirectional DC/DC Converter Transformer Control Design for Hybrid Cars SHI Jun, WU Hua-jie(117)

Selecting Methodology of Military Airworthiness Clauses Based on Bow-Tie Accident Model CUI Li-jie, DING Ye, SUN Chao, REN Bo(122)

Guided Filter Improved Reconstruction Multiscale Retinex Algorithm LI Zhong-hai, CHEN Can-can, JIN Hai-yang(127)

Beamforming Algorithm Based on Fuzzy RBF Neural Network in the Situation of Limited Snapshots

..... FENG Xiao-yu, XIE Jun-wei, ZHANG Jing, WANG Bo(132)

Armored Simulator Gunner's Man-machine Control Based on Virtual Reality

..... AN Ya-fei, ZHU Yuan-wu, LIU Yong-liang, WANG Wei, ZHU Rui(136)

Influence of Self-interference Cancellation Error on Radio Frequency Injection System

..... ZHANG Ying, WANG Jian-ye, CHENG Zhao, NAN Hang(141)

Method of Evaluating Performance of Speed Ballistic Gun MENG Xiang-hui, CHEN Ze-feng, JING Chun-yang(145)

Design on Multipurpose Initiating Circuit for Fuze Based on STM32 CHEN Hai-feng, NIE Wei-rong(148)

Design and Realization of AESE Smart Skin Beam Control System GU Lei, ZHU Xiao-song(152)

Cognitive Waveform Optimization for Missile-Borne Radar Using MMSE Criterion JIANG Meng-ran, LI Wei, LAN Xing, WANG Yu-xi(158)

Interception Probability Analysis of a New Type of Flying Board Active Protection System

..... SHANG Yu-qing, DU Zhong-hua, CHEN Xi, LEI Xiao-yun(165)

An Improved Fusion Model for Support Information ZHOU Wei-zhu, WANG Zhe, LI Biao, JIANG Shi-wei(169)

TEST TECHNIQUE

Circuit Design of Offset Canceling Sample-and-hold Architecture for High-speed ADC LIU Yong-cong, WANG Jian-ye, LIAN Zhen(174)

The Systematic Engineering on the Support Equipment Construction

..... WEI Zhao-lei, CHEN Chun-liang, WANG Lei, LU Xian-bo, CHENG Cheng-jin(178)