



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

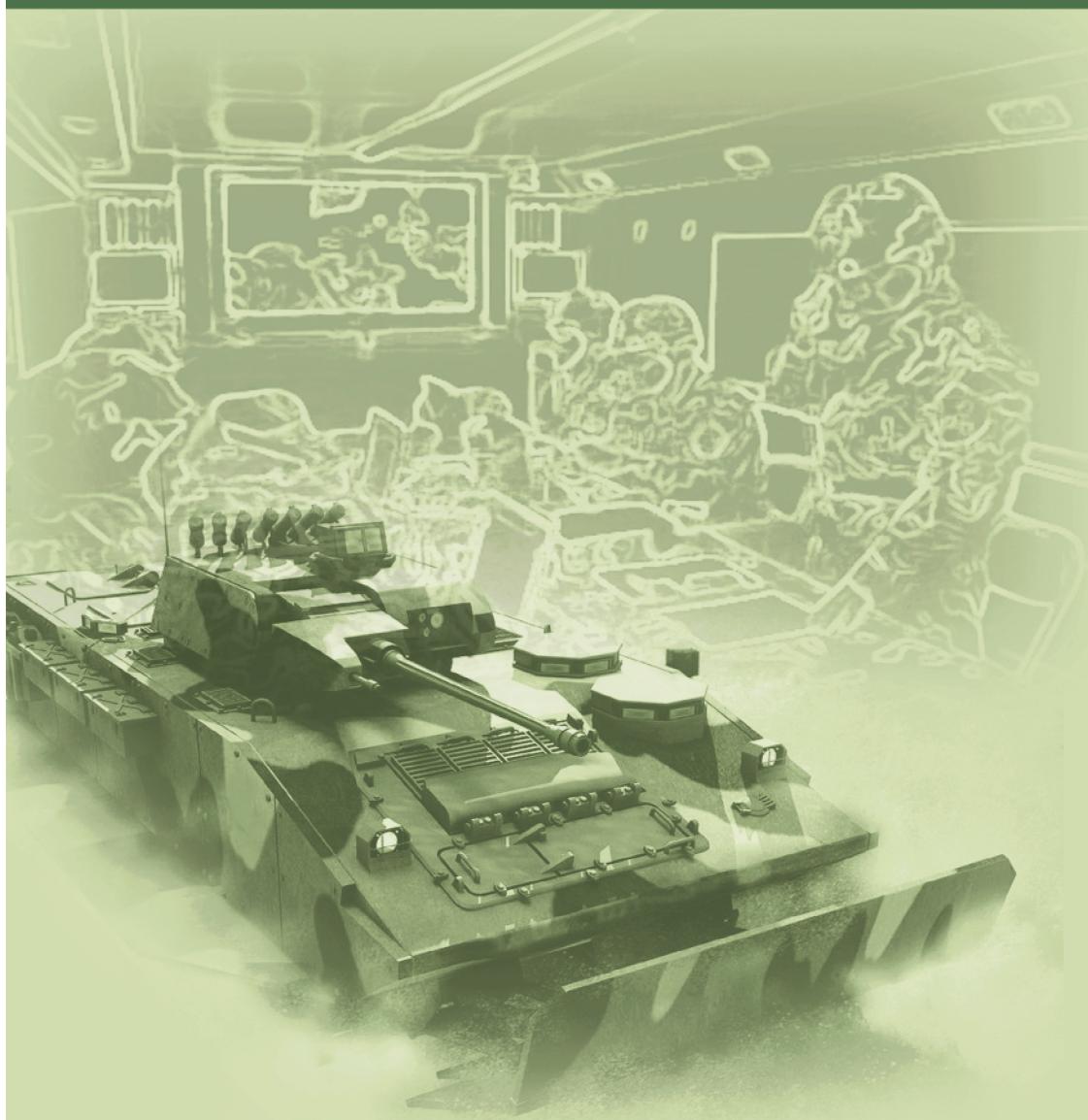
火力与指挥控制

FIRE CONTROL & COMMAND CONTROL

2016.12

第41卷 VOL41
第12期 No.12

卷终 附索引



ISSN 1002-0640

12>

9 771002 064161

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 41 卷 第 12 期 (总第 261 期) 卷终 月刊 1976 年创刊 国内外公开发行

目 次

综 述

舰炮制导弹药发展研究

孙世岩,朱惠民,宋 敏,徐迅之(1)

复杂目标毁伤效果评估关键问题分析

肖 海,刘新学,李亚雄,武 健(5)

理论研究

信息支援条件下协同空战态势评估研究

安 超,李战武,常一哲,杨海燕(9)

欠驱动再入飞行器的抗饱和姿态控制器设计

李宪强,周 军(15)

VNS 和 SA 相结合的指挥控制资源部署

胡诗骏,姚佩阳,孙 昱,李 锚(20)

基于 Rényi 信息增量的机动目标协同跟踪算法

谷 雨,石晶辉,石弯弯,董华清,彭冬亮(25)

军用航空机务维修人员安全知识结构评价研究

徐吉辉,柳月青,邹星琪(31)

基于单类集成分类器的 JPEG 通用隐写分析

李 薇,张 舒,祁 锐(36)

基于 FRFT 窄带滤波的 LFM 信号研究

王 瑜,李小波,周青松,黄中瑞(41)

基于 CCA/DEA 的装备维修保障绩效评价

翟楠楠,刘晓东,吴诗辉,包 呈(44)

基于区间直觉模糊集的目标优先级求解方法

徐公国,段修生,李胜军(50)

相控阵雷达维修方案优选方法研究

王永攀,杨江平,张可心,张 伟(54)

雷达对抗侦察装备作战能力的 ANP 幕指数评估方法

吕 可,郑 威,赵严冰(59)

空袭中预警机阵位选择及航线规划

祁 炜,李 侠,蔡万勇,鲁千红(64)

弹 / 枪相互作用引起的运动步枪枪口振动分析

刘国庆,徐 诚(69)

空投着陆缓冲系统效能评估模型

韩晓东,余红英,杨 珍,史 锐,余风华(74)

基于 CLOUD-TFN-AHP- α 的健康状态评估方法

刘志勇,赵 美,王立欣(78)

指挥控制结构的抗毁性分析研究

鱼 静,沈延安,王 峰,张雪胭(82)

基于改进蜂群算法的非均匀阵列综合

崔佩璋,全厚德,乔成林(87)

基于复杂网络的作战同步建模与优化

王 伟,刘付显,邢清华(91)

基于加权双曲线定位的 DV-Hop 改进算法

易仁杰,余 剑,吴 标,龚 阳(96)

基于灰色聚类的多机种保障装备保障能力评估

胡 涛,吕瑞强,刘章龙(101)

基于 SD 的信息化防御作战中兰彻斯特方程

卞立新,罗兴柏,刘国庆,甄建伟(105)

燃气射流引起的火箭发射系统振动特性分析

李 军,于思森,刘 晴,胡 亚,周为浩(108)

基于最大信噪比的盲源分离雷达抗主瓣干扰方法

董 珩,李小波,徐旭宇,王 伟,李 磊(113)

基于 DOB 和二自由度控制器的某火炮稳定控制系统设计

王海稳,曲俊海,孙汉青,庞继文(117)

多车通信系统中的同频电子干扰消除优化方法

杨清学(121)

基于单一聚类方法的航空器相撞 HFACS 诱发模式分析

甘旭升,曲 虹,娄渊位,李华平(125)

对流层散射下 MPLS 重路由信号去噪研究

贺绍桐,薛伦生,刘 赞(130)

炮兵风险距离的仿真计算方法 吕学志(134)

工程实践

多击痕轮廓最小外接圆法测量击针偏心度

霍 李,王 媛,赵黎兴(138)

光电跟瞄平台稳定控制器设计

刘珊中,李燕凡,刘永斌,屈秀敏(142)

基于作战任务的舰艇数据链传输时效控制方法

王 睿,姜 宁(146)

融合战术与修正物理特征的空中目标战术类型识别

崇 元,李加祥,艾 巍,王 勃(150)

无线传感网和神经网络的民用火药贮存在线监测系统

朱光耀,董龙明(155)

基于模糊综合评价的海基测控系统综合效能评估

李少华,杨奕飞,凌晓冬(158)

基于前馈控制与反馈控制的位置伺服研究

周承仙,富 巍(162)

某战术训练模拟器快速校准数据采集系统

刘永易,贾 彪,西光旭,曹小敏,王 宁(165)

基于时频图像三维熵特征的雷达信号识别

刘 歌,张国毅,田椿熔(169)

试验技术

基于 AHP 的射手综合素质的三级模糊综合评判

尹光辉(174)

下期要目(90) 2016 年第 41 卷总目次(I-VII)

2017 年火力与指挥控制专委会年会征文通知(VIII)

会议简讯(封三)

本期责任编辑 姚庆辉,宋 薇

[期刊基本参数] CN14-1138/TJ * 1976 * m * A4 * 178 * zh * P * ¥20.00 * 2 000 * 40 * 2016-12

Fire Control & Command Control

Vol. 41 No. 12 Dec. 2016

Contents

SURVEY

- Study of Developing Naval Gun Guided Ammunition SUN Shi-yan, ZHU Hui-min, SONG Xin, XU Xun-zhi(1)
Key Problems of Complex Targets Damage Effect Assessment XIAO Hai, LIU Xin-xue, LI Ya-xiong, WU Jian(5)

THEORY RESEARCH

- Situation Assessment on Cooperative Air Combat with Information Support AN Chao, LI Zhan-wu, CHANG Yi-zhe, YANG Hai-yan(9)
Attitude Tracking of the Under-actuated Reentry Vehicle with Actuator Saturation LI Xian-qiang, ZHOU Jun(15)
Command and Control Resource Deployment Based on VNS and SA HU Shi-jun, YAO Pei-yang, SUN Yu, LI Kai(20)
A Maneuvering Target Collaboration Tracking Algorithm Based on Rényi Information Gain GU Yu, SHI Jing-hui, SHI Wan-wan, DONG Hua-qing, PENG Dong-liang(25)
Study on Evaluation of Safety Knowledge Structure on Military Aviation Maintenance Personnel XU Ji-hui, LIU Yue-qing, ZOU Xing-qi(31)
JPEG Universal Steganalysis Based on One-class Ensemble Classifier LI Wei, ZHANG Shu, QI Rui(36)
Study of LFM Signal Based on FRFT Domain Narrowband Filter WANG Yu, LI Xiao-bo, ZHOU Qing-song, HUANG Zhong-rui(41)
Evaluation Research on Equipment Maintenance Support Performance Based on CCA/DEA ZHAI Nan-nan, LIU Xiao-dong, WU Shi-hui, BAO Cheng(44)
A Method of Target Priority Based on Interval Valued Intuitionistic Fuzzy Set XU Gong-guo, DUAN Xiu-sheng, LI Sheng-jun(50)
Research on Optimal Selection Method of Maintenance Concept for Phased Array Radar WANG Yong-pan, YANG Jiang-ping, ZHANG Ke-xin, ZHANG Wei(54)
Method for Operational Capability Evaluation of Radar Reconnaissance System Based on ANP and Power Index LYU Ke, ZHENG Wei, ZHAO Yan-bing(59)
AEW Location Selection and Course Programming of Air-Raid Operations QI Wei, LI Xia, CAI Wan-yong, LU Qian-hong(64)
Analysis of Sporting Rifle Muzzle Response Characteristics Motivated by Interaction Between Bullet and Tube LIU Guo-qing, XU Cheng(69)
Effectiveness Evaluation Model of Airdrop Landing Buffer System HAN Xiao-dong, YU Hong-ying, YANG Zhen, SHI Rui, YU Feng-hua(74)
Health Condition Assessment Method Based on CLOUD-TFN-AHP- α LIU Zhi-yong, ZHAO Mei, WANG Li-xin(78)
Structure Invulnerability Analysis of Command and Control YU Jing, SHEN Yan-an, WANG Feng, ZHANG Xue-yan(82)
Synthesis of Non-uniform Arrays Using Modified Bees Algorithm CUI Pei-zhang, QUAN Hou-de, QIAO Cheng-lin(87)
Modeling and Optimization of Operational Synchronization Based on Complex Networks WANG Wei, LIU Fu-xian, XING Qing-hua(91)
An Improved DV-Hop Algorithm Based on Weighted Hyperbolic Positioning YI Ren-jie, YU Jian, WU Biao, GONG Yang(96)
Multi Aircraft Security Equipment Support Capability Evaluation Based on Grey Clustering HU Tao, LYU Rui-qiang, LIU Zhang-long(101)
Study on Information Defensive Battle Lanchester Equation Based on SD BIAN Li-xin, LUO Xing-bai, LIU Guo-qing, ZHEN Jian-wei(105)
Analysis of Vibration of Rocket Launching System Caused by Gas Jet LI Jun, YU Si-miao, LIU Qing, HU Ya, ZHOU Wei-hao(108)
A Radar Mainlobe Jamming Suppression Method of BSS Based on Maximum Signal Noise Ratio DONG Wei, LI Xiao-bo, XU Xu-yu, WANG Wei, LI Lei(113)
Design of the Artillery Stability Control System Based on DOB and Two Degree of Freedom Controller WANG Hai-wen, QU Jun-hai, SUN Han-qing, PANG Ji-wen(117)
Study on Optimization Method of Same Frequency Electronic Interference Cancellation in Multi Vehicle Communication System YANG Qing-xue(121)
HFACS Inducement Mode Analysis for Aircraft Collision Based on Monothetic Clustering Method GAN Xu-sheng, QU Hong, LOU Yuan-wei, LI Hua-ping(125)

- Research on the De-noising of Reroute Signals in the Troposphere Scattering with MPLS HE Shao-tong, XUE Lun-sheng, LIU Zan(130)
Simulation Method for Risk Distance of Non-enemy in Artillery Firing LYU Xue-zhi(134)

ENGINEERING PRACTICE

- Eccentricity Measurement of Firing Pin Based on Minimum Circumscribed Circle of Multiple Firing-indentations HUO Li, WANG Yuan, ZHAO Li-xing(138)
Stability Controller Design of Electro-optical Tracking and Pointing Platform LIU Shan-zhong, LI Yan-fan, LIU Yong-bin, QU Xiu-min(142)
Research on Control Methods of Warship Data Link Transmission Timeliness Based on Operational Task WANG Rui, JIANG Ning(146)
Aerial Target Tactics Recognition Integrated with Targets Tactical and Amendatory Physics Characteristics CHONG Yuan, LI Jia-xiang, AI Wei, WANG Bo(150)
Civil Powder Storage Online Monitor System Based on Wireless Sensor Network and Neural Network ZHU Guang-yao, DONG Long-ming(155)
Comprehensive Effectiveness Evaluation on Sea-based TT&C System Based on Fuzzy Comprehensive Assessment LI Shao-hua, YANG Yi-fei, LING Xiao-dong(158)
Study on Position Servo Based on Feedforward Control and Feedback Control ZHOU Cheng-xian, FU Wei(162)
A Fast Calibration Data Acquisition System of Tactical Training Simulator LIU Yongyi, JIA Biao, XI Guang-xu, CAO Xiao-min, WANG Ning(165)

- Radar Signal Recognition Based on Three Dimensional Entropy Features of Time-Frequency Image LIU Ge, ZHANG Guo-ji, TIAN Zhen-rong(169)
TEST TECHNIQUE
Three Level Fuzzy Comprehensive Evaluation of the Comprehensive Qualities of the Shooter Based on AHP YIN Guang-hui(174)