



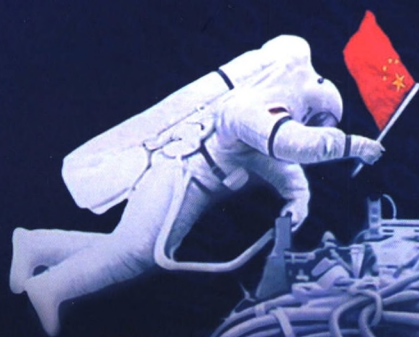
中文核心期刊
中国计算机用户协会会刊

QK1905152

ISSN 1006-9348

计算机仿真

Computer Simulation



ISSN 1006-9348



9 771006 934033

万方数据

2
2019

目 次

军事领域仿真

军事侦察通信系统跳频信号分选	陈利波, 龚晓峰, 雒瑞森, 陈思南(1)
基于网络流理论的军事打击目标选择问题研究	贺小亮, 张 芳(6)
飞片材料对 HNS-IV 炸药冲击点火的影响研究 ^[1]	任志伟, 甘 强, 钱石川, 冯长根(9)
微波雷达对海面温度准确监测仿真	孙 宇, 陈 标, 孙华庆, 王 丹(14)
基于点散射的风电机雷达回波信号仿真	郝 斌, 黄 力, 杨嘉炜(18)

航空航天领域仿真

固冲发动机燃气发生器流量调节优化控制	柴金宝, 陈 雄, 周景亮, 何 坤(24)
尾喷管可调变流量固冲发动机控制模拟	李业明, 徐向华, 彭 灿(29)
无人机无动力应急着陆控制策略研究	田征戈, 刘慧英, 黄鑫怡, 郭慧娟(35)
多无人机协同编队飞行目标跟踪控制仿真	王市辉, 代冀阳, 蒋 沅, 吴歇尔(40)
基于 DSMC 和 NS 的稀薄高超声速平板流场分析	午辛暄, 陈 浩, 张 斌, 刘 洪(45)
基于系统仿真模型的北斗导航产业政策分析	王馨慧, 袁建华(50)
灾害救援中无人机资源优化配置仿真研究	皇甫莹丽, 程 威(55)

能源领域仿真

公路隧道中敷设电力电缆的温度场仿真研究	李红雷, 李 颖, 姚周飞, 俞瑾华(59)
基于质因子分解的混合排序 MMC 均压策略研究	李 健, 陈 卓, 柏 管, 王占宝(63)
直流微电网下并联变换器稳定性控制仿真	李天航, 迟 颂, 权文静, 段辰阳(69)
分布式电力应急救援指挥监控仿真研究	张美煜(75)
基于深度学习的短时热网负荷预测	孙海蓉, 田 瑶, 谢碧霞(79)

交通体系与工具仿真

汽车悬架系统结构驾驶平顺性设计研究	田军南, 谭光兴, 冯楚楚, 段方宾(83)
关于储能式有轨电车节能优化控制研究	徐茂峻, 肖 壮, 毛畅海, 孙鹏飞(88)
基于停车场辅助拼车方法的研究与仿真	刘 帮, 刘 明(95)

信息仿真

网络中高机密数据传输速率优化数学建模分析	胡淑荣, 陶建国(100)
一种基于 SDN 的 C-RAN 负载均衡架构及算法	龙 恩, 赵 勇(104)
多媒体数字水印重复嵌入自适应检测仿真	唐林海, 梁丽香(109)
多媒体视频编码信息感官视觉反馈增强仿真	张 慧(113)
道路多通道双向信号传输速度优化仿真研究	张文斗(117)
通信信号多路径传输信道实时分配方法仿真	赵筱琢(121)
OFDM 系统中的预留子载波比例优化	李 博, 胡玲娜, 宋 涛, 丁良辉(125)
一种改进的非线性记忆功放行为建模与仿真	刘金亭, 曹李华, 李明玉, 胡琚琚(132)
电子文档信息传输安全防御仿真研究	裴 多, 李 林(136)
Haar 小波变换在 OFDM 系统中的应用研究	许寅曦, 张 峰, 李 浩, 赵 黎(140)

制造业仿真

多目标混合装配线平衡方法优化	赵 晶, 苏东楠(145)
----------------------	---------------

教学仿真

智慧校园用户身份特征多标签自适应分类仿真	王卫星, 李 斌(149)
物联网下实验室仪器设备故障风险评估仿真	张 扬(153)

仿真应用研究

低对比度手指静脉图像特征提取仿真	何晓栋, 刘 斌, 姚 斌, 张鹏海(157)
多门限图像重叠目标区域精细分割方法仿真	姜禹泽, 张宇昕(161)
单幅结构场景图像的三维建模与仿真技术	潘美莲(166)
噪声抑制的单幅图像去雾变分模型	王 治, 潘振宽, 王国栋, 魏伟波(171)
碳纤维复合电极材料微观建模与拉伸模量预报	张泽天, 赵海涛, 陈吉安(178)
重型燃气轮机组合转子透平端可靠性仿真分析	刘庆亚, 申儒林, 何竞飞, 朱卓平(183)
基于 Gillespie 算法及膜系统的藻类生长建模	张雄雄, 周永华, 艾娇燕(187)
基于语义分割-对抗的图像语义分割模型	王 鑫, 于重重, 马先钦, 陈秀新(191)

仿真方法与算法

基于协同半监督的深度图像分类算法	葛梦颖, 于重重, 周 兰, 马钰锡(196)
基于聚类算法的多目标快速特征点匹配算法	黄思炜, 王 峰, 曹祺炜, 樊卫国(201)

大数据分析下多维离散数据高效聚类方法仿真	姜延文(205)
鲶鱼云模型优化差分进化算法研究	李双双,田雨波,胡晓明,许永秀(209)
基于非均匀线阵列的多目标 DOA 估计	梁 红,叶陈诚,杨长生,荀晓帅(215)
基于序列最小优化的 SIFT 特征提取与匹配算法	廖小飞,庄新闻,公维涛,陈建军(219)
立体视觉下连续翻页动画效果增强方法仿真	刘晓东(224)
正交小波变换下单调迭代算法仿真研究	王开宝(228)
一种改进的 DTW 相似性搜索方法	晏 臻,苏维均,于重重,吴子珺(232)
主动噪声控制系统次级通道在线建模的方法	张 欢,马令坤,杨 帆(237)
基于 LMS 的频谱感知算法研究	郭文祥,余志勇,孙亚民(241)
一种基于 DBN 的入侵检测误报消除算法	魏 鹏,张 震,徐 萍,陈 博(245)
基于图像分割的双目无源测距	谢志宏,王楠洋,宗艳桃,倪华阳(250)
基于扩散序列重采样的改进 RBUPF 算法	王更生,王稼林(255)

仿真网络化

无线传感网络信息高速缓冲存储仿真	康 哲,宋 敏(259)
移动自组织网络攻击信息支援效能评估仿真	陶汝虚,吴光凤(263)
底层网络大数据信息资源并行分配优化仿真	王 莉,陈治伯(267)
多目标无线网络跨层资源智能分配方法仿真	吴漪菡(271)
大数据网络多记录信息自适应融合仿真研究	许绘香,张 慧,苏 玉(275)
异构环境下 HSI 覆盖优化控制仿真研究	赵素蕊,孟宪遵(279)
无线移动网络抗毁性测度指标优化修正仿真	周家丞(283)

仿真智能化

基于 CFD 的通信机房温度模型预测控制	彭 刚,周晨阳(287)
机械手夹持机构运动与控制联合仿真研究	申团辉,王卫兵,冯静安,喻俊志(292)
基于时间序列的多源日志安全数据挖掘仿真	杨秋翔,王冠男,王 婷(297)
基于安全性的多机协调吊运系统张力优化算法	叶佳楠,赵志刚,梁星星(302)
轮式移动机器人的模糊滑模轨迹跟踪控制	尤 波,张乐超,李 智,丁 亮(307)
时间最优的码垛机器人轨迹控制仿真	张成功,钱 平(314)
多采样寻优的双向 RRT 路径规划算法	张亚琨,高泽东,曹 杰,肖宇晴(319)
无刷直流电机动态响应性能控制仿真	张 杨,张兴华(325)
医药输液灯检机对产品异物准确检测仿真	张 辉,李宣伦(330)
关于移动机器人动态路径目标规划研究	陈尔奎,吴梅花,石倩倩(336)
SRM 的模糊-微分先行单神经元 PID 控制	党选举,彭慧敏(342)
基于自适应反演滑模的全向 AGV 运动控制	江亚峰,王彬彬,袁明新,姜 烽(348)

仿真服务化

旋转不变纹理特征在图像模式识别中应用仿真	陈凤萍,齐建华(353)
发电厂供电传输实时电价准确估计仿真	郭良玉,高 岩(357)
大数据分析下劣质用户数据动态清理方法仿真	郭 娜,沈焱萍,韩 莹,李 攀(362)
关于水质污染准确评估建模研究	贾 洁,苏婷立,王小艺,赵峙尧(367)
基于四元数多自由度神经元的跌倒模式识别	金阿锁,羌予践,华 亮,刘雨晴(372)
物联网用户查询目标自动推荐算法仿真研究	孔国利,王爱菊(380)
基于聚类分析的高速公路行程时间预测	李松江,宋军芬,杨华民,张凤荣(384)
人群监控图像异常轨迹数据聚类识别仿真	李 文,李小艳(390)
叶片式离心泵失效传播与仿真研究	李文娟,刘海强(395)
大跨度预应力混凝土桥梁裂缝加固监测仿真	刘宏伟(400)
基于改进 ViBe 算法的运动目标检测研究	刘燕德,曾体伟,陈洞滨,周 鑫(404)
医学超声影像设备采集信息噪声滤除仿真	罗文奇,颜 斌(409)
基于组合核函数的类均值核主元故障诊断方法	潘成胜,李 惠,陈 波,吕亚娜(414)
射频识别下医院病房信息智能化监控方法仿真	孙晓叶,刘 颖,张 兵(419)
土木工程建筑结构损伤精确诊断方法仿真	王 刚(423)
基于决策树的路面破损图像快速识别仿真	王嘉宁,苏 翀(427)
透射电子显微镜图像畸变快速校正仿真	温宏愿,刘小军,张 朋(431)
实验室更新信息资源访问权限控制方法仿真	谢金涛(435)
移动网络相似信息重复记录智能检测仿真	谢 毅(439)
化工并行设备批处理过程的集成批调度仿真研究	闫 萍,袁 媛(443)
基于模糊聚类和组合预测算法的光伏短期预测	余飞鸿,陈永强,雷 霞,鲍晓婷(447)
基于 PCA 与协同训练算法的虚假评论识别研究	杜茂康,叶 琪(452)
关于异地数据库传输数据一致性检测仿真	熊守丽(458)
基于染色的多波束无线自组网系统资源调度	李翼泽,丁良辉,杨 峰,宋 涛(462)
大数据环境下混合入侵信息查询路径优化仿真	刘熙武(469)

CONTENTS

Frequency Hopping Signal Sorting in Military Reconnaissance Communication System	CHEN Li - bo, GONG Xiao - feng, et, al (1)
Research on Problem of Military Strike Target Selection Based on Network Flow Theory	HE Xiao - liang, ZHANG Fang (6)
Research on Influence of Flyer Materials on Impact Ignition	REN Zhi - wei, GAN Qiang, et, al (9)
Simulation of Sea Surface Temperature Accurate Monitoring by Microwave Radar	SUN Yu, CHEN Biao, et, al (14)
Simulation of Wind Turbine Radar Echo Signal Based on Point Scattering	HAO Bin, HUANG Li, et, al (18)
Optimization Control of Flow Regulation of Gas Generator for Solid Rocket Ramjet	CHAI Jin - bao, CHEN Xiong, et, al (24)
Simulation of Ducted Rocket Control with Adjustable Gas Flux and Variable Nozzle	LI Ye - ming, XU Xiang - hua, et, al (29)
Research on Unpowered Emergency Landing Control Strategy of UAV	TIAN Zheng - ge, LIU Hui - ying, et, al (35)
Simulation of Multi - UAV Cooperative Formation Flight Target Tracking Control	WANG Shi - hui, DAI Ji - yang, et, al (40)
Analysis of Rarefied Hypersonic Flow around Flat Plate Based on the DSMC and NS Method	WU Xin - xuan, CHEN Hao, et, al (45)
Simulation Model Based Beidou Navigation Industry Policy Analysis	WANG Xin - hui, YUAN Jian - hua (50)
Simulation Research on Resource Optimization Configuration of UAV in Earthquake Rescue	HUANGFU Ying - li, CHENG Wei (55)
Simulation of Thermal Field of Power Cable Installed in Traffic Tunnel	LI Hong - lei, LI Ying, et, al (59)
Research on Mixed Sorting Method of Capacitor Voltage Balancing Control Strategy for MMC Based on Prime Factorization	LI Jian, CHEN Zhuo, et, al (63)
Simulation of Stability Control in Parallel Converters Based on DC Microgrid	LI Tian - hang, CHI Song, et, al (69)
Simulation Research on Distributed Electric Emergency Rescue Command and Control	ZHANG Mei - yu (75)
Short - Term Load Forecasting Based on Deep Learning	SUN Hai - rong, TIAN Yao, et, al (79)
Research on Design of Driving Smoothness of Vehicle Suspension System	TIAN Jun - nan, TAN Guang - xing, et, al (83)
Energy Efficient Optimization of Multiple Intervals for Energy Storage Tram	XU Mao - jun, XIAO Zhuang, et, al (88)
Research and Simulation on Carpool Method Based on Parking Lot Assisted	LIU Bang, LIU Ming (95)
Mathematical Modeling Analysis of High Confidential Data Transmission Rate Optimization in Network	HU Shu - rong, TAO Jian - guo (100)
A Load Balancing Architecture and Algorithm Based on SDN in C - RAN	LONG Ken, ZHAO Yong (104)
Simulation of Repetition Embedded Adaptive Detection for Multimedia Digital Watermark	TANG Lin - hai, LIANG Li - xiang (109)
Simulation of Multimedia Video Coding Information Sensory Visual Feedback Enhancement	ZHANG Hui (113)
Research on Optimization Simulation of Road Multi - channel Bidirectional Signal Transmission Speed	ZHANG Wen - dou (117)
Simulation of Multi - path Transmission Channel Real - time Distribution Method for Communication Signals	ZHAO Xiao - zhuo (121)
Tone Reservation Ratio Optimization for OFDM Systems	LI Bo, HU Ling - na, et, al (125)
Modeling and Simulation of Nonlinear Memory Amplifier Based on Improved Volterra Series	LIU JIN - ting, CAO Li - hua, et, al (132)
Simulation Research on Security Defense of Electronic Document Information Transmission	PEI Duo, LI Lin (136)
Application of Haar Wavelet Transform in OFDM System	XU Yin - xi, ZHANG Feng, et, al (140)
Optimization of Balancing Method for Multi - Objective Hybrid Assembly Line	ZHAO Jing, SU Dong - nan (145)
Simulation of Multi - Tag Adaptive Classification for User Identity Feature in Smart Campus	WANG Wei - xing, LI Bin (149)
Simulation of Fault Risk Assessment for Laboratory Equipment in Internet of Things	ZHANG Yang (153)
Simulation of Feature Extraction in Low - Contrast Finger Vein Image	HE Xiao - dong, LIU Bin, et, al (157)
Simulation of Fine Segmentation Method for Multi - Threshold Image Overlapping Target Region	JIANG Yu - ze, ZHANG Yu - xin (161)
3D Modeling and Simulation Technology of Single Structure Scene Image	PAN Mei - lian (166)
A Variational Model for Single Image Dehazing and Denoising	WANG Zhi, PAN Zhen - kuan, et, al (171)
Simulation of Tensile Performance and Microstructure Modeling of Carbon Fiber Composite Electrode	ZHANG Ze - tian, ZHAO Hai - tao, et, al (178)
Simulation and Analysis of Reliability of Combined Rotor Turbine of Heavy Gas	LIU Qing - ya, SHEN Ru - lin, et, al (183)
Modeling of Algae Growth Based on Gillespie Algorithm and Membrane System	ZHANG Xiong - xiong, ZHOU Yong - hua, et, al (187)
Image Semantic Segmentation Model Based on Semantic Segmentation - Adversarial Network	WANG Xin, YU Chong - chong, et, al (191)
Deep Learning Image Classification Algorithm Based on Semi - Supervised Collaboration Training	GE Meng - ying, YU Chong - chong, et, al (196)
Research on Fast Multi - objects Feature Point Matching Based on Cluster Algorithm	HUANG Si - wei, WANG Feng, et, al (201)
Simulation of Multi - Dimensional Discrete Data Efficient Clustering Method under Big Data Analysis	JIANG Yan - wen (205)
Research on Optimization of Differential Evolution Algorithm Combining Catfish Effect and Cloud Model	LI Shuang - shuang, TIAN Yu - bo, et, al (209)
DOA Estimation of Multiple Targets with Sub - Nyquist Spatial Sampling Based on Non - uniform Linear Array	LIANG Hong, YE Chen - cheng, et, al (215)
SIFT Feature Extraction and Matching Algorithm Based on Sequential Minimal Optimization	LIAO Xiao - fei, ZHUANG Xin - chuang, et, al (219)

Simulation of Continuous Page Turning Animation Enhancement Method under Stereo Vision	LIU Xiao - dong (224)
Simulation of Monotone Iterative Algorithm Based on Orthogonal Wavelet Transform	WANG Kai - bao (228)
An Improved DTW Similarity Search Method	YAN Zhen, SU Wei - jun, et, al (232)
A Method for Online Secondary Path Modeling in Active Noise Control Systems	ZHANG Huan, MA Ling - kun, et, al (237)
Research on Spectrum Sensing Algorithm Based on LMS	GUO Wen - xiang, YU Zhi - yong, et, al (241)
DBN - Based Intrusion Detection False Alarm Elimination Method	WEI Peng, ZHANG Zhen, et, al (245)
Binocular Passive Ranging Based on Image Segmentation	XIE Zhi - hong, WANG Nan - yang, et, al (250)
An Improved RBUPF Algorithm Based on Diffusion Sequence Resampling Strategy ...	WANG Geng - sheng, WANG Jia - lin (255)
Simulation of Information Cache Storage in Wireless Sensor Network	KANG Zhe, SONG Min (259)
Simulation of Support Effectiveness Evaluation of Attack Information in Mobile Self - Organizing Network	TAO Ru - xu, WU Guang - feng (263)
Simulation of Parallel Allocation Optimization for Underlying Network Big Data Information Resources	WANG Li, CHEN Zhi - bo (267)
Simulation of Cross - Layer Resource Intelligent Allocation for Multi - Objective Wireless Network	WU Yi - han (271)
Research on Adaptive Fusion of Multi - Record Information in Big Data Network	XU Hui - xiang, ZHANG Hui, et, al (275)
Simulation of Optimization Control of High Speed Interconnection Network Coverage in Heterogeneous Environment	ZHAO Su - rui, MENG Xian - zun (279)
Simulation of Invulnerability Measure Index Optimization Correction in Wireless Mobile Network	ZHOU Jia - cheng (283)
Model Predictive Control of Communication Equipment Room Temperature Based on CFD	PENG Gang, ZHOU Chen - yang (287)
Research of Co - Simulation of Motion and Control of Manipulator Clamping Mechanism	SHEN Tuan - hui, WANG Wei - bing, et, al (292)
Simulation of Multi - Source Log Security Data Mining Based on Time Series	YANG Qiu - xiang, WANG Guan - nan, et, al (297)
Optimization Tension Method for Multi - Robot Coordinated Towing System Based on Safety	YE Jia - nan, ZHAO Zhi - gang, et, al (302)
Fuzzy Sliding Mode Trajectory Tracking Control of Wheeled Mobile Robots	YOU Bo, ZHANG Le - chao, et, al (307)
Simulation of Time - optimized Trajectory Control for Palletizing Robot	ZHANG Cheng - gong, QIAN Ping (314)
Bidirectional RRT Path Planning Algorithm with Multiple Sampling Optimization	ZHANG Ya - kun, GAO Ze - dong, et, al (319)
Simulation of Dynamic Response Performance Control for Brushless DC Motor	ZHANG Yang, ZHANG Xing - hua (325)
Simulation of Accurate Detection to Foreign Matter of Production for Inspection Machine in Medical Infusion	ZHANG Hui, LI Xuan - lun (330)
Research on Dynamic Path Target Planning of Mobile Robot	CHEN Er - kui, WU Mei - hua, et, al (336)
Fuzzy - Differential Prior Single Neuron PID Control for Switched Reluctance Motor	DANG Xuan - ju, PENG Hui - min (342)
Motion Control for Omnidirectional AGV Based on Adaptive Backstepping Sliding Mode Control	JIANG Ya - feng, WANG Bin - bin, et, al (348)
Rotation - Invariant Texture Features Applied in Image Pattern Recognition	CHEN Feng - ping, QI Jian - hua (353)
Accurate Evaluation Simulation of Real - Time Pricing of Power Transmission in Power Plant ...	GUO Liang - yu, GAO Yan (357)
Simulation of Dynamic Cleanup of Inferior User Data under Big Data Analysis	GUO Na, SHEN Yan - ping, et, al (362)
Research on Accurate Assessment Modeling of Water Pollution	JIA Jie, SU Ting - li, et, al (367)
Tumble Pattern Recognition Based on Multi - Degree of Freedom Neuron in Quaternion	JIN A - suo, QIANG Yu - jian, et, al (372)
Simulation of Automatic Recommend Algorithm for Users Query Target in Internet of Things	KONG Guo - li, WANG Ai - ju (380)
Travel Time Prediction of Freeway Based on Clustering Analysis	LI Song - jiang, SONG Jun - fen, et, al (384)
Simulation of Data Cluster Recognition of Abnormal Trajectory for Crowd Monitoring Image	LI Wen, LI Xiao - yan (390)
Simulation Study on Failure Propagation of Centrifugal Vane Pump	LI Wen - juan, LIU Hai - qiang (395)
Monitoring and Simulation of Crack Reinforcement for Long - Span Prestressed Concrete Bridges	LIU Hong - wei (400)
Moving Object Detection Based on Improved ViBe Algorithm	LIU Yan - de, ZENG Ti - wei, et, al (404)
Information Noise Filtering Simulation of Medical Ultrasonic Imaging Equipment Acquisition	LUO Wen - qi, YAN Bin (409)
Fault Diagnosis Method with Class Mean Kernel Principal Component Analysis Based on Combined Kernel Function	PAN Cheng - sheng, LI Hui, et, al (414)
Simulation of Hospital Ward Intelligence Monitoring Method under Radio Frequency Identification	SUN Xiao - ye, LIU Ying, et, al (419)
Simulation of Precise Diagnosis Method for Civil Engineering Structural Damage	WANG Gang (423)
Rapid Recognition of Pavement Damage Based on Decision Tree	WANG Jia - ning, SU Chong (427)
Simulation of Image Distortion Rapid Correction for Transmission Electron Microscope	WEN Hong - yuan, LIU Xiao - jun, et, al (431)
Simulation of Access Control Method for Laboratory Update Information Resource	XIE Jin - tao (435)
Simulation of Duplicate Records Intelligent Detection of Similar Information in Mobile Network	XIE Yi (439)
Simulation of Integration Batch Scheduling for Chemical Parallel Units Batch Process	YAN Ping, YUAN Yuan (443)
Short - term Prediction of Photovoltaic Output Based on Meteorological Data Fuzzy Clustering and GAPS - BP Algorithm	YU Fei - hong, CHEN Yong - qiang, et, al (447)
Research on Deceptive Reviews Detection Based on PCA and Co - Training Algorithm	DU Mao - kang, YE Qi (452)
Simulation of Data Conformance Detection in Remote Database	XIONG Shou - li (458)
Scheduling in a Multi - Beam Ad Hoc System Via Coloring	LI Yi - ze, DING Liang - hui, et, al (462)
Query Path Optimization of Hybrid Intrusion Information in Big Data Environment	LIU Xi - wu (469)

热烈庆祝中华人民共和国成立七十周年

WARMLY CELEBRATE THE SEVENTY ANNIVERSARY OF THE ESTABLISHMENT OF PEOPLE'S REPUBLIC OF CHINA

1949-2019

