



中文核心期刊
中国计算机用户协会会刊



ISSN QK1931048

计算机仿真

Computer Simulation



ISSN 1006-9348



9 771006 934033

万方数据

6
2019

目次

军事领域仿真

基于作战系统复杂网络抗毁性优化研究	邓青,薛青,陈琳,于屏岗(1)
基于后续共享性的维修器材配置建模与仿真	孙正,石全,王强,戈洪宇(5)
雷达接收系统目标信号实时校正仿真研究	余天歌,张志敏,陈永强(10)
雷达信号的数字化中频调制解调算法仿真	赵玲峰(16)
某型坦克抢救车作业装置参数辨识	晁智强,郭浩,李华莹,宁初明(21)
船舶动力装置燃油系统故障仿真研究	李小鹏,倪何,金家善(26)

航空航天领域仿真

无人机遥感监测下大气污染源追踪定位仿真	陈晨,杨晶*,吴亮(32)
空间飞艇无线通信系统太阳能供电设计仿真	樊桔,周江华,王保成(36)
基于HHT的星载SAR海面目标检测	耿逸群,宋红军(44)
涡扇发动机油门节流控制器设计仿真研究	顾彬斌,潘慕绚,黄金泉(49)
滑翔飞行器激光雷达探测目标避障轨迹仿真	李铭(55)
航天器多次再入气动巡航变轨	李勇,甘庆波(59)
基于BIM的航站楼火灾差异化防排烟研究	宋洋,李鹏哲(64)
温度效应对壁板动响应及疲劳寿命影响研究	王晨,燕群,陈海波,黄文超(68)
无人机组合导航系统姿态控制方法仿真	王杰,张永辉*,李宪鹏(73)
带分流叶片叶轮的气动阻尼仿真	王延忠,齐荣华(77)
飞机机身螺栓连接多钉载荷合理分配研究	张宏伟,徐春龙,武耀罡(83)
临近空间超压气球结构多样性设计与仿真	赵荣,张航悦,张向强(87)
大偏心率小倾角GEO SAR观测特性及成像研究	周彬斌,齐向阳,王炳乾(92)
空间卫星相机安装固定基频性能优化设计	孔德成,刘伟,颜昌翔,李颐(98)
真实入口条件下的隔离段最佳长度研究	骆红朱,金志光,周航,张莹元(103)
全球卫星导航系统中欺骗信号优化检测仿真	申成良,郭承军(109)
直升机着舰实时目标定位姿态预测仿真	孙建新,钟雷声,张利(114)
基于航程加权的航路网络效能仿真分析	王莉莉,蒋一森(120)
发动机涵道高阶声模态控制技术研究	薛东文,燕群,高翔,黄文超(125)
基于低热变形的卫星天线拓扑优化设计方法	种婧宜,裴胜伟,王 珣(131)
直升机模拟机客观测试的试飞数据处理方法	吴文庆,蔡伟健,汤 鸿,汪 洋(135)
低轨卫星网络传输路径实时预测仿真	张 钰,朱坤杰,李德政,杨 坚(140)

能源领域仿真

高压直流输电系统简化仿真模型研究	田 旭,董晓亮,武灵杰,谢小荣(145)
气-固喷枪流动特性及优化的仿真分析	邱桂芝,张志刚,郭婷婷,叶佳敏(150)

交通体系与工具仿真

地下隧道单向双车道双洞交通事故准确检测	胡 永(155)
城市综合客运枢纽旅客换乘仿真研究	李文新,彭其渊,李登辉,何必胜(160)
基于诱导系统与用户博弈的停车实时诱导模型	刘建明,朱宏伟,彭 磊(166)
关于高铁运行图量化指标准确评估仿真	王 兵,倪少权,陈钉均,张 慧(171)
无人驾驶汽车路径跟踪控制研究	张飞铁,奉山森,黄 晶(175)
自动泊车转向路径跟踪定位优化控制研究	张 持,张永林(179)

信息仿真

博物馆远程监控视频图像干扰新特征提取仿真	雷 桐,燕 耀(186)
多径信道数字中频信号盲源分离方法仿真	连佳佳,辛海华,王利斌(190)
机会中继OFDMA下行网络的高能效资源分配	马 超,王 涛,金志文,孙彦赞(194)
关于水印图像抗攻击隐形优化处理仿真	辛 晨,崔炳德,王 义,田志民(201)
主动通讯多频段信息传输质量检测方法仿真	杨 倩,唐红霞(205)

教学仿真

基于虚拟现实的自闭症儿童乘公交训练系统	付存亮,许达文(209)
---------------------------	--------------

仿真应用研究

基于树形结构的多相水平集图像分割算法仿真	陈娥祥(214)
园林景观空间元素合理布局模拟方法仿真研究	黄 鹏(218)
不同频率有氧运动下心肺耐力反应建模仿真	郎晓彤(222)

新型结构电磁双凸极发电机设计仿真	马文博,张广明,梅 磊(226)
有限视角下不完全投影图像迭代重建仿真	农忠海(232)
海上起重作业过程建模与仿真分析	许秀军,李 震,王立权,房晓明(236)
饮用水硝酸盐与癌症死亡率相关性的仿真分析	袁甜甜,高 鹏(242)
一次性二氧化碳致裂器筒体刻槽有限元分析	胡军科,徐坤鸿,赵 存,牛奇斌(246)
金属材料吸波器吸波频率动态调节仿真	杨 森(251)
同步发电机准同期运行输出端电压控制仿真	庄志惠,朱鹰屏,施金鸿,岑 健(255)

仿真方法与算法

混合存储视频数据库中自适应数据挖掘仿真	刘红敏(259)
基于最小均方稀疏信息辅助的稀疏信道估计	倪煜淮,吴姚振,毛一凡,乔正明(263)
深度置信网络环境下高光谱数据降维方法仿真	叶加青,康 婧(267)
有色噪声条件下扩展卡尔曼滤波算法研究	张奇正,黄雪梅,蔡述江(271)

仿真软件

航空装备软件可靠性增长模型研究	孙 媛,夏 菲,宋大勇(278)
大数据中商业软件个人信息安全认证仿真	朱小刚(284)

仿真网络化

网络主动防御下字符型数据全同态加密仿真	乌 兰(289)
复合可重构无线网络信息交换方法仿真	武 琰,樊海红*(293)
开放式网络交互信息敏感程度准确度量仿真	周旭东(297)

仿真智能化

基于机器人仿生视觉路标多模式匹配定位仿真	何奇文(302)
自主轮式移动机器人纵横向目标路径规划仿真	赵澄东(306)
基于运动描述语言的机械臂轨迹生成及仿真	刘钊铭,刘乃龙,魏 青,崔 龙(310)
同态加密隐私保护数据高效智能挖掘仿真	庞金香,隋萌萌(316)
基于实验数据的电蒸汽发生器模糊控制仿真	王有栋,吴淑英,陈丹丹,吴志民(320)

仿真虚拟化

关于电影实时预演仿真系统优化设计研究	李 逸,丁刚毅(326)
--------------------------	--------------

仿真服务化

数据库中分布式大数据关键特征防篡改仿真	程光德(332)
图书馆海量藏书目录准确检索仿真	范宏梅(337)
基于WEB技术的协同数据库分布交互仿真研究	高 慧,贵彩虹(341)
大数据分析下上网行为信息特征快速挖掘仿真	韩龙龙,姜淦卿,王花清(346)
网络图像集合多目标元素信息跟踪识别仿真	何 颖(350)
中继蜂窝网络中增强型矢量数据分区调度仿真	胡洪林(354)
危险品仓储运输突发事件跟踪目标准确识别	胡 鹏,帅 斌,吴贞瑶,左 静(358)
云平台资源多层服务信息传输负载调度仿真	黄伟建,潘志刚(364)
大数据中多记录动态信息优化定位查询仿真	赖永凯(368)
复杂物流网络下多层级供应链均衡优化仿真	李 丹(373)
多用户网络拥塞中错误数据实时清理方法仿真	李 晓(378)
嵌入式操作系统非定期任务均衡调度仿真	李雅莉(383)
破损图像丢失区域自适应优化修复方法仿真	廖晓芳(388)
复杂网络大数据中重叠社区自动检测仿真	柳 原,白金牛(393)
基于密度矩阵和卫星修正的台风中心定位仿真	庞君如,王让会,李 博(398)
移动应用数据库中隐蔽数据高效定位方法仿真	尚晓丽,包向辉,马春华,尤菲非(403)
对等覆盖网络传输层异常流量模糊识别仿真	宋小芹(408)
卫星导航系统接收信号质量优化评估仿真	汪建明,袁 洪,罗瑞丹,袁 超(412)
多曝光图像移动边界伪影自主校正方法仿真	汪利琴(418)
人脸局部遮挡表情特征快速识别方法仿真	王玉晶,莫建麟(422)
数字式图书馆海量文献数据查询优化仿真	谢 燕(426)
小尺度图像细节层的高频分量提取仿真	杨道静(430)
互联网中非法文本特征自适应提取仿真研究	杨肖楠,花季伟(434)
工业产品设计多区域资源信息搜索整合仿真	殷陈君,王 璞,王 臣,王 川(438)
高效液相色谱仪异常故障智能诊断仿真	苑宁萍,顾艳丽(442)
协同过滤下局部低秩张量分解推荐仿真	张宏丽(446)
机械设备振动信息采样定位检测仿真	张阳峰,张 斌,邓娜娜,王文瑞(450)
智能楼宇网络中冗余信息并行采集方法仿真	郑恒河(455)
防风林对露天料场抑尘效果的数值仿真	邓瑶灏,陈晓玲,张 珊,张永学(459)
钢铁企业同轨多天车调度方法研究	雷兆明,王鹏程,廖文喆,赵 凡(465)
偏头痛脑电信号特征提取仿真研究	袁冬莉,熊 欣,贺向前(471)
视觉传达系统平面图形元素采集方法仿真研究	刘丽坤(475)

CONTENTS

Research of Anti - destroy Optimizing Based on Operation System Complex Network	DENG Qing, XUE Qing, et, al (1)
Research on Wartime Equipment Maintenance Resource Allocation Based on Follow - up Sharing Character	SUN Zheng, SHI Quan, et, al (5)
Real - Time Correction Simulation of Radar Receiving System Target Signals	YU Tian - ge, ZHANG Zhi - min, et, al (10)
Radar Signal Digital IF Modulation Demodulation Algorithm Simulation	ZHAO Ling - feng (16)
Lifting Device Parameter Identification of Certain Armored Recovery Vehicle Based On Multi - population Hybrid Biological Algorithm	CHAO Zhi - qiang, GUO Hao, et, al (21)
Fault Simulation Research of Marine Power Fuel System	LI Xiao - peng, NI He, et, al (26)
Simulation of Atmospheric Pollution Source Tracking and Positioning under UAV Remote Sensing Monitoring	CHEN Chen, YANG Jing, et, al (32)
Design and Simulation on Solar Power Supply of Wireless Communication System of Near Space Airship	FAN Zhi, ZHOU Jiang - hua, et, al (36)
A Detection Algorithm of Moving Targets Based on HHT in Space - Borne SAR	GENG Yi - qun, SONG Hong - jun (44)
A New Control Design and Simulation for Throttle Operating Conditions of Aircraft Engines	GU Bin - bin, PAN Mu - xuan, et, al (49)
Simulation of Obstacle Avoidance Trajectory for Lidar Detection of Gliding Vehicle	LI Ming (55)
The Spacecraft Multiple Reentry Orbital Transfer with Aerocruise	LI Yong, GAN Qing - bo (59)
Numerical Analysis of Differential Smoke Control in Fire of Terminal Based on Building Information Model	SONG Yang, LI Peng - zhe (64)
Influence of Temperature Effect on Dynamic Response and Fatigue Life Of Panel	WANG Chen, YAN Qun, et, al (68)
Mobile Big Data Anonymous Bidirectional Authentication Method Simulation	WANG Jie, ZHANG Yong - hui, et, al (73)
Aerodynamic Damping Simulation of Impeller with Split Blade	WANG Yan - zhong, QI Rong - hua (77)
Research on Pin Load Rational Distribution of Multi - Bolt - Jointed Plates for Aircraft Fuselage	ZHANG Hong - wei, XU Chun - long, et, al (83)
Structure Diversity Design and Simulation of the Near Space Super Pressure Balloon	ZHAO Rong, ZHANG Hang - yue, et, al (87)
Observational Properties and Imaging Analysis for Geosynchronous SAR of High Eccentricity and Nearly Zero Inclination	ZHOU Bin - bin, QI Xiang - yang, et, al (92)
Optimization Design of Fundamental Frequency on Space Satellite Camera Installation	KONG De - cheng, LIU Wei, et, al (98)
Study on the Optimum Length Of Isolator at Distorted Incoming Flow Conditions	LUO Hong - zhu, JIN Zhi - guang, et, al (103)
Simulation of Spoofing Signal Detection in GNSS	SHEN Cheng - liang, GUO Cheng - jun (109)
Real - Time Attitude Prediction of Helicopter Landing Simulation	SUN Jian - xin, ZHONG Lei - sheng, et, al (114)
The Voyage - Weighted Simulation of Route Network Performance	WANG Li - li, JIANG Yi - sen (120)
The Control of High Order Acoustic Modes in Engine Duct	XUE Dong - wen, YAN Qun, et, al (125)
Topology Optimization Design of Satellite Antenna Back Reinforcement Based on Low Thermal Deformation	CHONG Jing - yi, PEI Sheng - wei, et, al (131)
Flight Data Processing Method for Helicopter Simulator Objective Testing	WU Wen - qing, CAI Wei - jian, et, al (135)
Simulation for Real - time Prediction of Transmission Paths in LEO Satellite Network	ZHANG Yu, ZHU Kun - jie, et, al (140)
Research of Simplified Simulation Model of HVDC	TIAN Xu, DONG Xiao - liang, et, al (145)
Simulation Analysis on Flow Characteristics and Optimization of Gas - solid Injector	QIU Gui - zhi, ZHANG Zhi - gang, et, al (150)
One - Way Two - Lane Double Tunnel Tunnel Traffic Event Detection Simulation	HU Yong (155)
Research on Passenger Flow Transfer Simulation of Urban Comprehensive Passenger Hub	LI Wen - xin, PENG Qi - yuan, et, al (160)
Real - Time Parking Guidance Model Based on Game Between System and User	LIU Jian - ming, ZHU Hong - wei, et, al (166)
Accurate Evaluation and Simulation of Quantified Indexes of High - Speed Railway Operation Diagram	WANG Bing, NI Shao - quan, et, al (171)
Path Tracking Control Research for Autonomous Vehicle	ZHANG Fei - tie, FENG Shan - sen, et, al (175)
Automatic Parking Path Tracking Control Research	ZHANG Chi, ZHANG Yong - lin (179)
Simulation of Fast Feature Extraction of Museum Video Image Signal Transmission	LEI Tong, YAN Yao (186)
Simulation of Blind Source Separation Method for Multi - path Channel Digital Intermediate Frequency Signals	LIAN Jia - jia, XIN Hai - hua, et, al (190)
Energy - efficient Resource Allocation for Downlink OFDMA with Opportunistic Relaying	MA Chao, WANG Tao, et, al (194)
Simulation of Stealth Optimization of Watermark Image Against Attack	XIN Chen, CUI Bing - de, et, al (201)
Simulation of Multi - band Information Transmission Quality Detection Method for Active Communication	YANG Qian, TANG Hong - xia (205)
A Bus Riding Training System for Children with Autism Based on Virtual Reality	FU Cun - liang, XU Da - wen (209)
Simulation of Multi - phase Level Set Image Segmentation Algorithm Based on Tree Structure	CHEN E - xiang (214)
Simulation Research on Simulation Method of Reasonable Layout of Spatial Elements in Garden Landscape	HUANG Li (218)
Modeling and Simulation of Cardiopulmonary Endurance Response under Different Frequency Aerobic Exercises	LANG Xiao - tong (222)
Design and Simulation of a Novel Electro - Magnetic Generator With Doubly Salient Structure	MA Wen - bo, ZHANG Guang - ming, et, al (226)

Iterative Reconstruction Simulation of Incomplete Projection Image under Finite Viewing Angle	NONG Zhong - hai (232)
Modeling and Simulation Analysis of Offshore Crane Ship Hoisting Process	XU Xiu - jun, LI Zhen, et, al (236)
Simulation Analysis of the Correlation between Nitrate in Drinking Water and Cancer Mortality	YUAN Tian - tian, GAO Peng (242)
Finite Element Analysis on the Grooved Body of One - Off Carbon Dioxide Fracturing Device on ANSYS Workbench	HU Jun - ke, XU Kun - hong, et, al (246)
Simulation of Absorbing Frequency Dynamic Regulation of Metal Material Absorber	YANG Sen (251)
Synchronous generator quasi - synchronous operation output voltage control simulation	ZHUANG Zhi - hui, ZHU Ying - ping, et, al (255)
Simulation of Adaptive Data Mining Method in Hybrid Storage Video Database	LIU Hong - min (259)
Sparsity - Information - Aided Least Mean Squares for Sparse Channel Estimation	NI Yu - Huai, WU Yao - zhen, et, al (263)
Hyperspectral Data Reduction Method Simulation in Deep Confidence Network Environment	YE Jia - qing, KANG Jing (267)
Research on Extended Kalman Filtering Algorithm with Colored Noise	ZHANG Qi - zheng, HUANG Xue - mei, et, al (271)
Aviation Equipment Software Reliability Growth Models with Normal Failure Time Distributions	SUN Yuan, XIA Fei, et, al (278)
Personal Information Security Authentication Simulation of Commercial Software in big data	ZHU Xiao - gang (284)
Full - homomorphic encryption simulation of character data under active network defense	WU Lan (289)
Simulation of Composite Reconfigurable Wireless Network Information Exchange Method	WU Yan, FAN Hai - hong (293)
Open network interaction information sensitivity accurate measurement simulation	ZHOU Xu - dong (297)
Research on Multi - pattern Matching Positioning Simulation Based on Robot Bionic Vision Road Sign	HE Qi - wen (302)
Simulation of Vertical and Horizontal Path Planning for Autonomous Wheeled Mobile Robot	ZHAO Cheng - dong (306)
A Research of MDL Method for Manipulator Trajectory Generation and Simulation	LIU Zhao - ming, LIU Nai - long, et, al (310)
Homomorphic Encryption Privacy Protection Data Efficient Intelligent Mining Simulation	PANG Jin - xiang, SUI Meng - meng (316)
Simulation of Fuzzy Control System of Electric Heating Steam Generator Based on Experimental Data	WANG You - dong, WU Shu - ying, et, al (320)
Research on Optimal Designing Real - Time Pre - Visualization Simulation System for Movies	LI Yi, DING Gang - yi (326)
Anti - Tampering Simulation of Key Features of Distributed Big Data in Database	CHENG Guang - de (332)
Simulation of Accurate Retrieval of Massive Books in Library	FAN Hong - mei (337)
Research on Distributed Interactive Simulation of Collaborative Database Based on WEB Technology	GAO Hui, GUI Cai - hong (341)
Fast Mining Simulation of Online Behavioral Information Characteristics Under Big Data Analysis	HAN Long - long, JIANG Gan - qing, et, al (346)
Multi Target Element Information Tracking and Recognition Simulation of Network Image Set	HE Ying (350)
Simulation of Enhanced Vector Data Partition Scheduling in Relay Cellular Networks	HU Hong - lin (354)
Target Tracking and Accurately Identifying under Transportation Emergency of Hazardous Materials Warehousing	HU Peng, SHUAI Bin, et, al (358)
Load Scheduling Simulation of Cloud Platform Resource Multi - Layer Service Information Transmission	HUANG Wei - jian, PAN Zhi - gang (364)
Multi - Record Dynamic Information Optimization Positioning Query Simulation in Big Data	Lai Yong - kai (368)
Multi - Level Supply Chain Equilibrium Optimization Simulation under Complex Logistics Network	LI Dan (373)
Simulation of error data real - time cleaning method in multi - user network congestion	LI Xiao (378)
Non - periodic Task Balancing Scheduling Simulation for Embedded Operating System	LI Ya - li (383)
Simulation of Adaptive Optimization and Repair Method for Damaged Image Loss Region	LIAO Xiao - fang (388)
Overlapping Community Automatic Detection Simulation in Complex Network Big Data	LIU Yuan, BAI Jin - niu (393)
Typhoon Center Positioning Simulation Based on Density Matrix and Satellite Correction	PANG Jun - ru, WANG Rang - hui, et, al (398)
Mobile Big Data Anonymous Bidirectional Authentication Method Simulation	SHANG Xiao - li, BAO Xiang - hui, et, al (403)
Fuzzy Recognition of Abnormal Traffic Flow in Peer - to - Peer Coverage Network Transport Layer	SONG Xiao - qin (408)
The Simulation Research on Optimal Assessment of GNSS Received Signals	WANG Jian - ming, YUAN Hong, et, al (412)
Multi - exposure image moving boundary artifact autonomous correction method simulation	WANG Li - qin (418)
Simulation of Fast Recognition Method for Facial Expression of Facial Partial Occlusion	WANG Yu - jing, MO Jian - lin (422)
Digital Library Mass Document Data Query Optimization Simulation	XIE Yan (426)
High - frequency component extraction simulation of small - scale image detail layer	YANG Dao - jing (430)
Research on Adaptive feature extraction Simulation of illegal text in Internet	YANG Xiao - nan, HUA Ji - wei (434)
Multi Area Resource Information Search Integration Simulation for Industrial Product Design	YIN Chen - jun, WANG Pu, et, al (438)
High - Performance liquid Chromatograph Abnormal Fault Intelligent Diagnosis Simulation	YUAN Ning - ping, GU Yan - li (442)
Recommended Simulation of Local Low Rank Tensor Decomposition under Collaborative Filtering	ZHANG Hong - li (446)
Simulation of Vibration Information Sampling and Positioning of Mechanical Equipment	ZHANG Yang - feng, ZHANG Bin, et, al (450)
Simulation of Redundant Information Parallel Acquisition Method in Intelligent Building Network	ZHENG Heng - he (455)
Numerical Simulation of the Effect of Windbreak on Dust Suppression in an Open Yard	DENG Fan - hao, CHEN Xiao - ling, et, al (459)
The Methodology on Multi - Crane Scheduling in Steel Enterprise	LEI Zhao - ming, WANG Peng - cheng, et, al (465)
Simulation Study on Feature Extraction of EEG in Migraine	YUAN Dong - li, XIONG Xin, et, al (471)
Simulation Research on the Acquisition Method of Plane Graphic Elements in Visual Communication System	LIU Li - kun (475)

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 PEOPLES REPUBLIC OF CHINA

1949-2019

