



中文核心期刊
中国计算机用户协会会刊

ISSN 1006-9348
QK1933305

计算机仿真

Computer Simulation



ISSN 1006-9348
9 771006 934033 7 >

7
2019

目次

军事领域仿真

- 爆炸冲击下座椅吸能元件设计及优化研究 陈 婷,周云波,王显会,李 昊(1)
一种改进扩展卡尔曼算法的伪码跟踪优化仿真 卢 来,邓 文(6)
某型机枪武器站柔体动力学枪口振动特性研究 毛保全,辛学敏,白向华,兰 图(10)
火炮发射弹丸补给机构优化设计研究 袁志华,夏春雷,孙运阳,贾翼哲(16)
风电机对雷达目标定位干扰的准确性仿真 唐 波,奉 彭,陈 昊,李耀伟(20)
潜艇大深度发射新型自航水雷可行性分析 周 杰,秦 楠,尹岳昆(25)

航空航天领域仿真

- 基于伪谱法的行星际小推力轨道优化设计 黎 梈,韩 潮,李 娟,张兴民(29)
飞艇囊体膜弹性振动特性预测仿真 宋 林,姜鲁华,张远平(34)
基于功能共振模型的军民航防相撞方法仿真 王新语,陈 峰(41)
新型飞行器垂直起降姿态稳定性控制研究 于彦鹏,陈绍青,彭秋铭,王 永(46)
地球同步轨道三星编队位置平衡研究 余 通,王蜀泉(52)
客机座舱压力系统泄漏特性优化控制仿真研究 张 安,董震江,毕文豪,王雨农(58)
基于优先级的导弹间混合时隙分配算法 刘春玲,余 耀,杨 阳(65)
多目标蚁狮算法在航材配置优化中的应用研究 张家维,李 昊(71)
类机翼前缘电磁散射特性仿真研究 张晓虎,孙 秦,张永杰(75)

能源领域仿真

- 计及小信号稳定的DFIG变换器控制参数优化 李玉博,贾燕冰,田晋杰(79)
微网供电逆变器功率系统优化控制仿真 彭劲杰,熊 炜,黎 燕(85)
地下管线探测磁异常信号采集仿真 郭 宇,刘得军,李彩芳(90)
单相多电平变换器的建模与仿真 林城美,杨 静(95)
防雷线路复合绝缘子并联间隙电场分布仿真 赵龙波,毕 勇,赵龙翔(100)

交通体系与工具仿真

- 缠绕式温等静压机工作缸热机耦合分析 鲍延年,罗天洪,刘遵飞(104)
变量机油泵发动机匹配试验台控制仿真 粟思奇,张飞铁(109)
城市超长轨道交通线路网最短路径选取仿真 于 宁,卢海军,邓 琳(116)
变频器供电的电动客车永磁电机高频噪声研究 于莫岩,刘 茜,陈 勇,高 星(120)

信息仿真

- 物联网环境下仓库后勤数据安全传输仿真 侯晓磊,张君君,牛丹彤(126)
多用户并行访问终端权限信息风险反馈仿真 黄锦敬(130)
电子器件测试设备信息远程监控方法仿真 梁承权(134)
海上障碍物条件下表面波导电波传播仿真 任 重,李天伟,韩 东(139)
带有空气开关的低压电力线通信信道模型 魏义镇,华 伟,王 伟(143)
一种新型数据链MAC协议及其信道占用研究 郑文庆,金 虎,郭建蓬,冯 辉(148)
异步串行通讯接口故障自适应检测仿真 钟良骥(153)
双缓冲通信网络中垃圾信息高效过滤仿真研究 周显春(157)
低信噪比下语音多路信号端点切分仿真 刘 丽(161)

制造业仿真

- 冲床套料中模拟重力算法的仿真研究 陈 博,唐厚君,王 堃,韩 斐(165)
聚己内酯的3D打印热流模型与数值分析 夏 宇,尹雪乐,李 祥(169)
工业产品造型数字化视觉质量评估优化仿真 张高美(174)

社会科学领域仿真

- 电子商务人才需求组合数据自适应提取仿真 刘彩霞(178)

仿真应用研究

- 水下航行体在侧方来流作用下超空化现象研究 范春永,李增亮,刘 斌(182)
不协调目标信息系统多变量控制方法仿真 黄丽娟,邹文君,吴 凡(187)
基于COMSOL的气泡聚并行为仿真研究 蒋晓刚,苑志江,翟玉婷,郑智林(191)
景观遥感图像的退化趋势特征提取仿真分析 李 轲(195)
双目立体视觉图像多目标处理精确匹配仿真 乌 兰(199)
基于自适应网格结构的气象云数据三维可视化 谢永华,朱超凡,郑 义,姬 瑜(203)

高温下 C/SiC 复合材料疲劳寿命预估方法研究 王奇志,张 迪,林慧星(208)

高光谱分辨率的地面场景仿真 肖 鑫,贾国瑞,崔博伦(213)

城市居住空间形态特征数字化建模仿真研究 王 裴,魏冬梅(219)

人脸动态皮沟特征三维重构仿真研究 刘燕燕(223)

基于农作物生长参数的施肥变量精准控制仿真 刘 鹤,朱雪莹(226)

衬砌厚度不足条件下隧道结构易损性仿真研究 史宏财(230)

仿真方法与算法

多通道曲面投影的 B 样条几何校正 冯春东,陈姚节,薛雅婷,张延峰(234)

基于分量信息融合的扩展卡尔曼滤波算法 耿 越,雷旭升(239)

车载 GNSS/INS 实时超紧组合导航方法及验证 李 晶,吴 跃,赵继东,高 雅(244)

最小权点覆盖的扫描测试向量生成算法 王 力,穆东旭(251)

仿真软件

面向服务的仿真实时中间件系统研究 卫 翔,范学满,于德新(257)

仿真网络化

基于灰色信息检测的相依网络安全评估仿真 张 瑜(261)

软件定义网络异常流量抑制方法仿真研究 袁 志,向 雄(265)

仿真智能化

基于海马体位置细胞的空间定位神经网络模型 桂 旻,斯白露(269)

基于人工蜂群优化的多段支持度数据挖掘仿真 梁显丽(273)

关于永磁同步电机速度特性鲁棒性控制研究 刘 畅,赵凯旋,牛 青(277)

基于参数自校正的力矩电机模糊控制方法研究 欧 峰,陈 洪(282)

空间机器人运行中回避奇异问题路径规划 孙占朋,王 亮(287)

大型关系数据库变更轨迹信息快速捕获仿真 徐承俊(292)

水下机器人推进器故障信号诊断 徐高朋,李 硕,曾俊宝,李一平(296)

仿人机械臂同步控制仿真研究 杨 涛,邹河彬,刘小勇,迟立国(302)

基于 bi_RRT 算法的九自由度机械臂路径规划 由弘扬,贺 帅,刘宏伟,徐振邦(308)

机器人行为协调性智能监测方法仿真 徐 婕(314)

仿真虚拟化

基于虚拟现实的社交网络三维可视化系统 孙灿燃,崔 晨,徐静乐,骆岩林(318)

仿真服务化

云计算下农业大棚环境信息自动采集仿真 卜晓波,刘德磊,王浩儒,牛雅曼(323)

多用户网络高风险连锁故障区域预警方法仿真 杜 涛(328)

语音识别技术在多媒体信息检索中的应用仿真 段维军(331)

云平台环境下多源异构大数据均衡调度仿真 龚 皓,郭 娜(335)

小户型室内空间视觉合理性评价仿真 胡家强(339)

强脉冲干扰下景物视频图像运动目标检测仿真 胡明合(343)

基于局部描述符聚类的关联书目智能检索仿真 黄 宇(347)

非线性电子网络模糊异常数据快速识别仿真 李伟民(351)

区域防灾气象监测信息空间结构演化仿真 李 雯(355)

绿色低碳下城市家庭电力能耗快速预测仿真 宋安原,丁 山(359)

大数据查询过程机密数据低延时发布协议仿真 苏晓光,薛佳桐,玄子玉(363)

大数据分析下不完备数据多重准确填补仿真 王丽雯,黄 旭(367)

实验室网络交换机测试数据自动采集仿真 王 强(371)

无线传感网络混合型数据高效存储方法仿真 王志虎(376)

语言数据库中异构数据自动转换方法研究 吴 燕(380)

数字式多媒体场景图像准确分类方法仿真 许志强,张 婷(385)

运动视频图像边缘特征自适应识别仿真 杨花雨,王艳丽(389)

交互式医学图像重迭区域信息检测方法仿真 杨 军(393)

云计算平台下电子信息资源均衡分配优化仿真 翟 玲,沈 思,程时星(397)

电子商务平台物流中心拣货流程软件仿真 张 强(401)

基于平滑过渡轨迹的桥式起重机定位防摆 张炜炜,范 波,廖志明(405)

基于视觉注意机制的行人目标检测 赵 谦,薛改祥,杨新花(411)

差异分布式存储系统应急资源优化调度仿真 郑 凯(415)

离焦模糊图像序列微弱运动目标自动检测仿真 钟小莉,樊吉亮(419)

大数据环境下有向网络相继故障控制仿真 邹 斌(423)

换热器导热管结垢诊断仿真研究 赵国新,吴数龙,陈化淳,赵文静(427)

暖通空调设备容量多关联组合最佳匹配仿真 王 天(432)

基于共轭梯度法的全变差盲图像去模糊仿真 杨道静(436)

多维属性数据的循环检索模式仿真 夏培淞,杜兆宏(441)

移动终端冗余运营数据迭代消除仿真研究 武 琰,樊海红(445)

智能通讯网络敏感信息连接可靠性监测仿真 倪铨珣(449)

基于动态解析方法的多线程数据高效抓取仿真 刘 彦(454)

CONTENTS

Design and Optimization of Energy-Absorbing Structure of Seat under Blast Shock Environment	CHEN Ting, ZHOU Yun-bo, et, al (1)
An Improved Extended Kalman Algorithm for Pseudo Code Tracking Optimization Simulation	LU Lai, DENG Wen (6)
Study on the Muzzle Vibration Characteristics of a Machine Gun Weapon Station with Flexible Body Dynamics	MAO Bao-quan, XIN Xue-min, et, al (10)
Research on the Design and Optimization of the Ammunition Supply Mechanism for Artillery Launch	YUAN Zhi-hua, XIA Chun-lei, et, al (16)
Calculation for Wind Turbine Radar Cross Section Based on PO-MoM	TANG Bo, FENG Peng, et, al (20)
Simulation Analysis of Launching Self-Propelled Mine in Large Depth by the Submarine Launcher	ZHOU Jie, QIN Nan, et, al (25)
Low-Thrust Orbit Transfer Optimization Based on Pseudospectral Method	LI Xun, HAN Chao, et, al (29)
Predictive Simulation of Elastic Vibration for an Airship Capsule	SONG Lin, JIANG Lu-huang, et, al (34)
Simulation Research on Military Civil Aviation Anti-collision Method Based on Functional Resonance Model	WANG Xin-yu, CHEN Feng (41)
Study on Attitude Stability Control of A New Aircraft at VTOL Stage	YU Yan-peng, CHEN Shao-qing, et, al (46)
Research on Position Equilibrium of Three-Craft Formation In Geosynchronous Orbit	YU Tong, WANG Shu-quan (52)
Simulation of the Optimizing Control of Leakage Characteristics for Civil Aircraft Cabin Pressure Control System	ZHANG An, DONG Zhen-jiang, et, al (58)
A Mixed-Slot Assignment Algorithm Based on Priority for Missiles	LIU Chun-ling, YU Yao, et, al (65)
Application of Multi-Objective Ant Lion Optimizer in Optimization of Aviation Parts Allocation ...	ZHANG Jia-wei, LI Hao (71)
Study on Electromagnetic Scattering Properties of Simplified Wing Leading Edge	ZHANG Xiao-hu, SUN Qin, et, al (75)
Controller Parameter Optimal Design of DFIG Converter Considering the Small-signal Stability of Power Grid	LI Yu-bo, JIA Yan-bing, et, al (79)
The Optimized Control Simulation for the Micro-Grid Supply Inverter Power System	PENG Jin-jie, WEI Xiong, et, al (85)
Underground Pipeline Detection Magnetic Anomaly Signal Acquisition Simulation	GUO Yu, LIU De-jun, et, al (90)
Modeling and Simulation for Single-Phase Multilevel Converter	LIN Cheng-mei, YANG Jing (95)
Simulation of Electric Field Distribution in Parallel Gap of Composite Insulators for Lightning Protection Lines	ZHAO Long-bo, BI Yong, et, al (100)
Coupled Analysis of Rotor Thermostatic Pressing Machine Cylinder	BAO Yan-nian, LUO Tian-hong, et, al (104)
Control and Simulation of Variable Oil Pump Engine Match Test Bench	SU Si-qi, ZHANG Fei-tie (109)
Simulation of Shortest Path Selection for Urban Super Long Rail Transit Network	YU Ning, LU Hai-jun, et, al (116)
Study of High Frequency Noise of PMSM in Electric Bus Powered by Inverter	YU Mo-yan, LIU Qian, et, al (120)
Simulation of Warehouse Logistics Data Security Transmission in Internet of Things Environment	HOU Xiao-lei, ZHANG Jun-jun, et, al (126)
Multi-User Parallel Access Terminal Authority Information Risk Feedback Simulation	HUANG Jin-jing (130)
Simulation of Electronic Device Test Equipment Information Remote Monitoring Method	LIANG Cheng-quan (134)
Simulation of Wave Propagation in Surface Duct with Maritime Obstacle Circumstance	REN Zhong, LI Tian-wei, et, al (139)
Indoor Low-Voltage Power Line Communication Channel Model with Air Switch	WEI Yi-zhen, HUA Wei, et, al (143)
Research on a New Data Link MAC Protocol and its Channel Occupancy	ZHENG Wen-qing, JIN Hu, et, al (148)
Asynchronous Serial Communication Interface Fault Adaptive Detection Simulation	ZHONG Liang-ji (153)
Simulation Research on Efficient Filtering of Spam in Double Buffer Communication Network	ZHOU Xian-chun (157)
Speech Multiplexed Signal Endpoint Segmentation Simulation With Low SNR	LIU Li (161)
Simulation Research on an Algorithm Based on Gravity Principles in Punching Nesting ...	CHEN Bo, TANG Hou-jun, et, al (165)
Modeling and Numerical Simulation of Flow and Heat Transfer in the Poly(ϵ -Caprolactone) 3D Printing Process	XIA Yu, YIN Xue-le, et, al (169)
Industrial Product Modeling Digital Visual Quality Assessment Optimization Simulation	ZHANG Gao-mei (174)
Adaptive Extraction Simulation of E-Commerce Talent Demand Combination Data	LIU Cai-xia (178)
Investigation of the Influence of Lateral Flow on the Supercavitation for Underwater Vehicle	FAN Chun-yong, LI Zeng-liang, et, al (182)
Multi-Variable Control Method Simulation for Uncoordinated Target Information System	HUANG Li-juan, ZOU Wen-jun, et, al (187)
Simulated Analysis of the Relative Location Impact on Bubbles Coalescence Behavior in the Water Based on COMSOL	JIANG Xiao-gang, YUAN Zhi-jiang, et, al (191)
Simulation Analysis of Degradation Trend Feature Extraction of Landscape Remote Sensing Images	LI Ke (195)
Binocular Stereo Vision Image Multi-objective Processing Exact Matching Simulation	WU Lan (199)
Three-Dimensional Visualization of Weather Forecast Cloud Data Based on Adaptive Grid Structure	XIE Yong-hua, ZHU Chao-fan, et, al (203)
Research on Fatigue Life Prediction Method of C/SiC Composites at High Temperature ...	WANG Qi-zhi, ZHANG Di, et, al (208)
Hyperspectral Resolution Ground Scene Simulation	XIAO Xin, JIA Guo-rui, et, al (213)
Research on Digital Modeling and Simulation of Urban Residential Space Morphological Characteristics	WANG Pei, WEI Dong-mei (219)

Simulation Research on 3D Reconstruction of Human Face Dynamic Groove Characteristics	LIU Yan-yan (223)
Precision Control Simulation of Fertilization Variables Based on Correlation of Crop Growth Parameters	LIU He,ZHU Xue-ying (226)
Simulation Study on Vulnerability of Tunnel Structure Under Insufficient Lining Thickness	SHI Hong-cai (230)
Geometric Correction of Multi-Channel Surface Projection Based on B-Spline	FENG Chun-dong,CHEN Yao-jie,et,al (234)
The Component Fusion Extend Kalman Filtering Algorithm	GENG Yue,LEI Xu-sheng (239)
Vehicle-Mounted GNSS/INS Real Time Ultra-Tight Integrated Navigation Method and its Verification	LI Jing,WU Yue,et,al (244)
Minimum Point Coverage Test Vector Generation Algorithm Based on PCB Structure Information ..	WANG Li,MU Dong-xu (251)
Research on the Service-Oriented Simulation Real-Time Middleware System	WEI Xiang,FAN Xue-man,et,al (257)
Simulation of Interdependent Network Security Assessment Based on Gray Information Detection	Zhang Yu (261)
Simulation Research on Software-Defined Network Abnormal Traffic Suppression Method	YUAN Zhi,XIANG Xiong (265)
A Neural Network Positioning Model Based on Hippocampal Place Cells	GUI Min,SI Bai-lu (269)
Multi-Segment Support Data Mining Simulation Based on Artificial Bee Colony Optimization	LIANG Xian-li (273)
Research on Robust Control of Speed Characteristics of Permanent Magnet Synchronous Motor	LIU Chang,ZHAO Kai-xuan,et,al (277)
Research on Self-Turning Fuzzy Control for PMSM	OU Feng, CHEN Hong (282)
Analysis and Simulation of Singularity Avoidance with Tikhonov Regularization for Path Planning of a FFSR	SUN Zhan-peng,WANG Liang (287)
Fast Capture Simulation of Change Track Information in Large Relational Database	XU Cheng-jun (292)
Thruster Fault Signal Diagnosis of Underwater Vehicle	XU Gao-peng,LI Shuo,et,al (296)
Simulated Research on Synchronization Control of Humanoid Manipulator	YANG Tao,ZOU He-bin,et,al (302)
The Mechanical Arm of 9-Dof Path Planning Based on bi_RRT Algorithm	YOU Hong-yang,HE Shuai,et,al (308)
Intelligent Monitoring Simulation of Robot Behavior Coordination Based on Big Data	XU Jie (314)
Social Network 3D Visualization System Based on Virtual Reality	SUN Can-ran,CUI Chen,et,al (318)
Automatic Collection and Simulation of Environmental Information in Agricultural Greenhouses under Cloud Computing	BU Xiao-bo,LIU De-lei,et,al (323)
Simulation of High-Risk Early Warning System for Cascading Failures in Multi-User Networks	DU Tao (328)
Application of Speech Recognition Technology in Multimedia Information Retrieval	DUAN Wei-jun (331)
Multi-Source Heterogeneous Big Data Equilibrium Scheduling Simulation in Cloud Platform Environment	GONG Hao,GUO Na (335)
Evaluation of the Visual Rationality of Small Apartment Interior Space	HU Jia-qing (339)
Motion Target Detection Simulation of Scenery Video Image under Strong Pulse Interference	HU Ming-he (343)
Association of Bibliographic Intelligent Retrieval Simulation Based on Local Descriptor Clustering	HUANG Yu (347)
Fast Recognition and Simulation of Fuzzy Anomaly Data in Nonlinear Electronic Networks	LI Wei-min (351)
Simulation of Spatial Structure Evolution of Regional Disaster Prevention Meteorological Monitoring Information	LI Wen (355)
Rapid Prediction of Urban Household Electricity Consumption under Green and Low Carbon ..	SONG An-yuan,DING Shan (359)
Big Data Query Process Confidential Data Low-Latency Release Protocol Simulation ..	SU Xiao-guang,XUE Jia-mei,et,al (363)
Incomplete Data Multiple Precision Filling Simulation under Big Data Analysis	WANG Li-wen,HUANG Xu (367)
Laboratory Network Switch Test Data Automatic Acquisition Simulation	WANG Qiang (371)
Simulation of Hybrid Data Efficient Storage Method for Wireless Sensor Networks	Wang Zhi-hu (376)
Research on Automatic Conversion Method of Heterogeneous Data in Language Database	Wu Yan (380)
Simulation of Accurate Classification Method for Digital Multimedia Scene Images	XU Zhi-qiang,ZHANG Ting (385)
Edge Recognition Adaptive Recognition Simulation of Motion Video Images	YANG Hua-yu,WANG Yan-li (389)
Simulation of Interactive Medical Image Overlap Region Information Detection Method	YANG Jun (393)
Balanced Distribution and Optimization of Electronic Information Resources under Cloud Computing Platform	ZHAI Ling,SHEN Si,et,al (397)
5-Commerce Platform Logistics Center Picking Process Software Simulation	ZHANG Qiang (401)
Positioning and Anti-Swing for Bridge Crane Based on Smooth Transition Trajectory	ZHANG Wei-wei,FAN Bo,et,al (405)
The Research of Pedestrian Detection Algorithm Based on Visual Attention	ZHAO Qian,XUE Gai-yang,et,al (411)
Simulation of Emergency Resource Optimization Scheduling for Differential Distributed Storage Systems	ZHENG Kai (415)
Mass Characteristics of Cloud Data Filtering Probability Calculation Model for the Simulation	ZHONG Xiao-li,FAN Ji-liang (419)
Simulation of Successive Fault Control of Directed Networks in Big Data Environment	ZOU Bin (423)
Simulation Research on Fouling Diagnosis of Conducting Heat Tube in Heat Exchanger	ZHAO Guo-xin,WU Shu-long,et,al (427)
HVAC Equipment Capacity Multi-correlation Combination Best Matching Simulation	WANG Tian (432)
The Image Visual Effect is Exactly The Same as the Original Test Image Structure Information	YANG Dao-jing (436)
Cyclic Retrieval Mode Simulation of Multi-dimensional Attribute Data	XIA Pei-song,DU Zhao-hong (441)
Simulation Research on Iterative Elimination of Redundant Operation Data of Mobile Terminals	WU Yan ,FAN Hai-hong (445)
Intelligent Communication Network Sensitive Information Connection Reliability Monitoring Simulation	NI Xuan-xun (449)
Multi-threaded Data Efficient Crawling Simulation Based on Dynamic Analysis Method	LIU Yan (454)

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

