

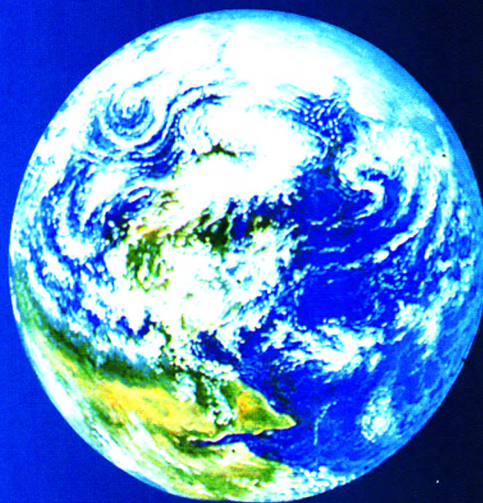


中文核心期刊
中国计算机用户协会会刊

ISSN 1006-9348

计算机仿真

COMPUTER SIMULATION



1101001011110100

101100010111

01011101001010101

ISSN 1006-9348



02 >

万方数据

771006 934033

2
2013

目次

综述

- 基于仿真的复杂系统研究 徐庚保, 曾莲芝(1)
再论云设计 陆继翔, 陆长德, 王平(5)

军事领域仿真

- 航渡中航母编队基于区域防御警戒舰阵位配置 沈治河, 朴成日(9)
鱼雷武器效能评估建模与仿真 魏勇, 李伟, 魏志强(13)
单轴旋转惯导系统误差特性研究 何泓洋, 许江宁, 查峰(17)
基于VR-forces的参量化想定接口研究 李春洪, 李斌, 刘伟涛(21)
作战仿真想定有效性验证方法研究 行舟, 郝建国, 黄柯棣(26)
网络效能度量模型探讨 侯向阳, 吴柱(30)
潜艇水下破损潜坐海底操纵控制仿真研究 胡坤, 高胜峰, 张建华(34)
藕节形耐压壳体强度与稳定性有限元分析 宋保维, 成鹏飞, 曹永辉, 朱信尧(38)
船舶混沌运动的比例-积分-微分控制 黄谦, 李天伟, 杨绍清, 李正友(42)
箱储式爆炸型催泪弹发射装置动力学仿真分析 曲龙飞, 杨金柱(47)
击发机构内碰撞能量损失的有限元分析 王红梅, 杨卫, 刘俊(51)

航空航天领域仿真

- 基于层次分析法与模糊理论的卫星效能评估 项磊, 杨新, 张杨, 余晓刚(55)
蒙特卡罗法的舰载机高峰出动仿真 郑茂, 黄胜, 赵永振, 王超(62)
运输机重装连续空投建模与特性分析 马骏, 孙秀霞, 董文瀚, 李大东(66)
飞机三级式发电系统建模与仿真 梁波, 李玉忍, 薛梦娇(71)
基于模型参考的纵向控制增稳系统优化设计 毕可军, 章卫国, 章萌, 刘宝宁(76)
大气高度辅助的惯导/SAR组合自适应算法研究 张旭, 熊智, 吴旋, 方峰(80)
无人机自驾仪自适应控制系统的设计与仿真 郑翌, 王新民, 谢蓉, 刘烨(85)
微谐振器结构性能的有限元分析 孙科, 宫海波, 开盛元(89)
基于卡尔曼滤波器的执行机构故障诊断方法 韩冰洁, 黎林峰(93)
某舵机上电液伺服阀有限元动态仿真 张颖, 袁朝辉, 赵开宇(97)
新型红外导引头伺服控制方法的优化与研究 王军平, 江燕俊(102)
航母编队对空防御中预警直升机空域配置方法 朴成日, 沈治河(106)
水下垂直发射出筒载荷响应分析 章东升, 方勇(112)

能源领域仿真

- 直冷式空冷机组驱动透平动态特性仿真 唐胜利, 刘诗, 阎欣军, 钟晓春(116)
光电复合海缆有限元建模与仿真 张旭, 尹成群, 吕安强, 李永倩(120)
概率潮流在电力系统静态N-1校验中的应用 王永辉, 王克文, 刘畅, 王君亮(125)
特高压酒杯塔组立对结构影响的仿真分析 胡晓光, 杨靖波(130)

交通体系与工具仿真

- 纯电动汽车动力匹配及计算仿真 周胜, 周云山(135)
基于熵值法的短时交通流组合预测仿真研究 黄镇谨, 李春贵, 陈波(140)
驾驶人酒驾自动检测挖掘方法研究与仿真 刘相娟(144)
机械加工过程质量数据的辨识与控制 李伟(148)
三轴转向车辆侧向稳定性控制策略分析 李耀旭, 王云超, 冯培锋(152)
前后轴独立驱动电传动系统驱动模式切换研究 全倩, 何洪文, 郭洪强(156)
车辆驾驶室降噪设计与仿真研究 王奎洋, 唐金花, 袁传义(161)

仿真信息

- 信息传播建模仿真中的心理模型研究 张芳, 司光亚, 罗批(165)
GPS接收机相关器捕获算法研究 武之风, 王改云, 陈雷(170)
基于平滑 l_0 范数的OFDM系统稀疏信道估计 王若梅, 马社祥, 孟鑫(174)
基于稀疏分解的复杂噪声背景中谐波恢复方法 叶兰兰, 余绍权, 付丽华(178)
一种小型WLAN双频天线的设计 桂长德, 韦高, 石帅(183)
高动态GPS接收机的设计与仿真 肖洪兵, 何飞云(187)
无线传感器网络加权质心定位算法研究 李文辰, 张雷(191)
一种改进的双模式遗传盲均衡算法 朱婷婷, 张云娇(195)
超增益低频接收基阵仿真研究 张天伟, 陈航, 马存宝, 宋东(200)

无线传感网络通信节点优化选择算法仿真	孟小艳(205)
--------------------------	----------

社会科学领域仿真

基于改进粒子群算法的投资组合模型	何光,吴萌(209)
------------------------	------------

仿真应用研究

电器恶性负载识别方法研究与仿真	张森特,谷小红(213)
基于 Kriging 模型的子集模拟方法	闫阳,董聪,陈向前(217)
生物组织热传导问题的数值仿真	曹蕾蕾,张涛,刘琼,张学敏(221)
高阻表面在机载遥测天线中的应用研究	宫海波,张振华,徐茜(226)
基于基准假组分方法的石油分馏塔动态仿真	妥少辉,楚纪正(230)
高炉渣离心粒化数值仿真与试验研究	陈艳艳,马杰伟,赵海涛,杨国华(235)
关联规则在医药云数据定向中的应用与仿真	宋钰,何小利,张刚园(239)
磁弹传感器动态磁滞模型构建与影响因子分析	周鹏超,唐德东(243)
单兵多功能应急供电系统中风机叶片的设计	蒋亮亮,赵雁(247)

建模与验模

仿真系统状态不连贯问题及解决方法研究	邱杰(252)
--------------------------	---------

仿真方法与算法

几种模型降阶方法的仿真对比研究	代冀阳,冉桥,蒋沅,黄盈(257)
偏微分方程的算子自定义小波解耦算法研究	汪友明,吴青,王文庆(261)
改进的 HHT 及其在颤振试验数据处理中的应用	廖振洋,郑华,裴承鸣,谭博(265)
基于共享反 K 近邻的局部离群点检测算法	潘章明,陈尹立(269)
基于嵌入式动态能耗平衡的汽车节能调度算法	赵建勋,金显华(274)

仿真系统

加氢裂化装置动态仿真	邵书成,王健红,王璟德(278)
基于双目视觉的移动机器人避障算法仿真研究	何兢,张翼飞(282)

仿真智能化

联合模糊逻辑和神经网络的网络选择算法	李航宇,刘伟,郭伟(286)
超大规模车间作业调度优化方法研究与仿真	刘军,陈瑞生,王晔楠(291)
交互式遗传算法的个性化商品搜索	康晓凤,胡望,邵晓根(295)
基于 SVM 算法的文本分类技术研究	崔建明,刘建明,廖周宇(299)
一种基于神经网络的装备保障方案评估模型	周伟祝,宦婧,孙媛,王永安(303)
IT 服务组合可靠性分析方法研究与仿真	杨宏波(308)
温湿度场下粮仓害虫模型建立研究	牛波,张元,秦建平,王雪(312)
一种新的量子遗传算法变异机制	戴勇谦,张明武,祝胜林,戴勇新(316)
输油管道在线检测数据融合模型	周庆忠,周宇迪(322)
一种改进的简化粒子群算法	黄太安,生佳根,徐红洋,黄泽峰(327)
单关节跳跃机器人模糊自适应轨迹跟踪控制	高建,葛文杰(331)
运动员潜在伤病警告方法研究与仿真	赵新辉,李杰,张晓培(336)
一种污水生化处理系统模型参数智能估算方法	叶洪涛(339)
基于蚁群算法的 OFDM 系统子载波分配研究	胡山锋,李洪烈,林成浴,宋高俊(343)
自平衡机器人变论域模糊 PID 控制研究	曹玉丽,史仪凯,袁小庆,刘江(347)
实现准确预报的降水预报模型构建方法研究	范严,程琳(351)
基于广义预测-碳饱充过程的控制研究	宋春宁,钟文瀚(354)
建筑施工项目安全预警系统的仿真研究	赵元庆,侯得恒(359)

仿真虚拟化

基于 GPU 实现的大量刚体运动实时仿真	彭林春,杨红雨,杨光(364)
基于复合核函数 KPCA 的红外人脸识别	张朝福,马力妮,荆禄娜(369)
基于改进的自适应分水岭图像分割方法研究	伊力哈木·亚尔买买提(373)
基于 Stateflow 的赋时 Petri 网仿真实现方法	程立,张健欣,赵海龙(378)
一种光电经纬仪虚拟目标仿真方法研究	闫志明,程波,邱扬刚(383)
基于虚拟样机的无返回力矩钟表机构仿真分析	刘刚,陆静,姚智勇,王灵(388)
HFC 接入网视频点播业务的网络设计	徐剑,倪宏,刘磊(392)
钻井设备三维建模及其工作动态仿真研究	任伟建,赵月娇,康朝海,霍凤财(396)
计算机视觉在纺纱过程中棉结杂质检测研究	何小利,宋钰(402)
海底电缆破损红外图像监控方法研究与仿真	廖利,胡海芝(406)
采用同心圆图像的摄像机标定方法	马文娟,孟广军(410)
脑部 MRI 图像的半自动实时轮廓提取方法	何煦佳,杨荣莺,吴效明,王耀处(414)
人脸图像虚假皮沟特征剔除算法的仿真分析	李菊霞,李建平(418)
自动化浮选系统中泡沫分离岭的研究	郭宏亮(422)
内窥镜图像病变特征快速定位算法的仿真分析	茹小光,魏子白(426)
物体三维图像运动重建算法仿真	胡成松(430)

CONTENTS

Simulation - Based Complex System Study	XU Geng - bao, ZENG Lian - zhi (1)
Introduction to Cloud Design	LU Ji - xiang, LU Chang - de, et, al (5)
Disposition Method of Guard Ship in Zone Defense for Carrier Formation in Navigation	SHEN Zhi - he, PIAO Cheng - ri (9)
Modeling and Simulation of Effectiveness Evaluation of Torpedo Weapon Based on Readiness Grade Conversion Operations	WEI Yong, LI Wei, et, al (13)
Research on Single Axis Rotation INS Error Characteristics	HE Hong - yang, XU Jiang - ning, et, al (17)
Research on Interface for Parameterized Scenario Based on VR - Forces	LI Chun - hong, LI Bin, et, al (21)
Research on Validation of Military Simulation Scenario	XING Zhou, HAO Jian - guo, et, al (26)
Discussion of Measurement Model of Networked Effects	HOU Xiang - yang, WU Zhu (30)
Simulation on Manoeuvre and Control of Settling on Bottom in Case of Submarine Damaged Underwater	HU Kun, GAO Sheng - feng, et, al (34)
Strength and Stability Study of Multiple Intersecting Spheres for Pressure Hull	SONG Bao - wei, CHENG Peng - fei, et, al (38)
Proportional - Integral - Derivative Chaotic Ship Maneuvering Control Algorithm Based on Dynamical Chaos Particle Swarm Optimization	HUANG Qian, LI Tian - wei, et, al (42)
Dynamics Simulation Analysis of Launching Device of Container Fire Unit for Exploding Tear Gas	QU Long - fei, YANG Jin - zhu (47)
Simulation Study on Collisional Energy Loss in Firing Mechanism	WANG Hong - mei, YANG Wei, et, al (51)
Effectiveness Evaluation for Satellite System Based on Analytic Hierarchy Process and Fuzzy Theory	XIANG Lei, YANG Xin, et, al (55)
Simulation Analysis of Carrier - borne Aircraft Surge Operation Based on Monte Carlo Method	ZHENG Mao, HUANG Sheng, et, al (62)
Modeling and Analysis of Transport Aircraft Heavy - weight Sequential Airdrop	MA Jun, SUN Xiu - xia, et, al (66)
Modeling and Simulation of Three - Stage Aircraft Synchronous Generator System	LIANG Bo, LI Yu - ren, et, al (71)
Longitudinal Control Augmentation System Optimal Design Based on Model Reference	BI Ken - jun, ZHANG Wei - guo, et, al (76)
Adaptive Filter Algorithm of Ins/Sar Integrated Navigation Based on Barometric Altimeter	ZHANG Xu, XIONG Zhi, et, al (80)
Design and Simulation of UAV's Autopilot Adaptive Control System	ZHENG Yi, WANG Xin - min, et, al (85)
Finite Element Analysis of Oscillating Microresonators	SUN Ke, GONG Hai - bo, et, al (89)
Actuator Fault Diagnosis Based on Kalman Filter Bank	HAN Bing - jie, GOU Lin - feng (93)
Finite Element Analysis of Electro - hydraulic Servo Valve Used in Pilot	ZHANG Ying, YUAN Zhao - hui, et, al (97)
Optimization Study on Servo Control Method for Roll - Pitch Infrared Seeker	WANG Jun - ping, JIANG Yan - jun (102)
Disposition Method of Early Warning Helicopter for Carrier Formation in Air Defense	PIAO Cheng - ri, SHEN Zhi - he (106)
Analysis of Tube - departing Load Response of SLBS Vertical Launching System	QIN Dong - sheng, FANG Yong (112)
Dynamic Model and Features Simulation on Steam Driven Turbine of Direct Air - cooling Unit	TANG Sheng - li, LIU Shi, et, al (116)
Method of Constructing Finite Element Model and Simulating of Photoelectric Composite Submarine Cable	ZHANG Xu, YIN Cheng - qun, et, al (120)
Application of Probabilistic Load Flow Method in Power System Static State N - 1 Verification	WANG Yong - hui, WANG Ke - wen, et, al (125)
Simulation and Analyses of Influence of UHV Cup - Tower's Assembly and Erection on Construction	HU Xiao - guang, YANG Jing - bo (130)
Power Matching and Calculation Simulation of Pure Electric Vehicle	ZHOU Sheng, ZHOU Yun - shan (135)
Short - term Traffic Flow Combination Forecasting Based on Entropy Approach	HUANG Zhen - jin, LI Chun - gui, et, al (140)
Driving Personnel Drunk Driving Method of Automatically Detecting the Research and Simulation	LIU Xiang - juan (144)
Quality Data Recognition and Control in Mechanical Processing Process	LI Wei (148)
Analysis of Lateral Stability Control Strategy of Three - axle Steering Vehicles	LI Yao - xu, WANG Yun - chao, et, al (152)
Research on Drive Mode Switch of Axles Separately Driven Electric Drive System	TONG Qian, HE Hong - wen, et, al (156)
Simulation Study and Design of Noise Reduction of Vehicle Cab	WANG Kui - yang, TANG Jin - hua, et, al (161)
Psychology Models of Modeling and Simulation on Information Spreading	ZHANG Fang, SI Guang - ya, et, al (165)
Research on Acquisition Algorithms for GPS Receiver Correlator	WU Zhi - feng, WANG Gai - yun, et, al (170)
Sparse Channel Estimation Based on Smoothed l_0 Norm Algorithm for OFDM Systems	WANG Ruo - mei, MA She - xiang, et, al (174)
Harmonic Signal Retrieval Based on Sparse Decomposition in Complex Noises	YE Lan - lan, YU Shao - quan, et, al (178)
New Compact Dual - Band Antenna for WLAN Application	GUI Chang - de, WEI Gao, et, al (183)
Design and Simulation of High - Dynamic GPS Receiver	XIAO Hong - bing, HE Fei - yun (187)
Research on Weighted Centroid Location Algorithm for Wireless Sensor Network	LI Wen - chen, ZHANG Lei (191)
Modified Dual - Mode GA Blind Equalization Algorithm	ZHU Ting - ting, ZHANG Yun - jiao (195)
Simulation Research on Directivity of Round Array	ZHANG Tian - wei, CHEN Hang, et, al (200)
Simulation of Wireless Sensor Network Communication Node Optimization Selection Algorithm	MENG Xiao - yan (205)

Portfolio Model Based on Improved Particle Swarm Optimization Algorithm	HE Guang, WU Meng (209)
Electrical Appliances Bad Load Identification Method Research and Simulation	ZHANG Miao - te, GU Xiao - hong (213)
Subset Simulation Based on Kriging Model	YAN Yang, DONG Cong, et, al (217)
Numerical Method to Heat Conduction Problem in Living Tissue	CAO Lei - lei, ZHANG Tao, et, al (221)
Application Study on High Impedance Surface in Airborne Telemetry Antenna	GONG Hai - bo, ZHANG Zhen - hua, et, al (226)
Dynamic Simulation of Petroleum Distillation Column Based on Standard Pseudo - Components	TUO Shao - hui, CHU Ji - zheng (230)
Numerical Simulation and Experimental Study on Centrifugal Atomization about Blast Furnace Slag	CHEN Yan - yan, MA Jie - wei, et, al (235)
Application and Simulation of Association Rules in Medicine Cloud Data Orientation	SONG Yu, HE Xiao - li, et, al (239)
Dynamic Hysteresis Model Construction of Sensor Based on Magneto - Elastic Effect and Analysis of Affecting Factors	ZHOU Peng - chao, TANG De - dong (243)
Design of Fan Blade for Individual Function of Emergency Power Supply System	JIANG Liang - liang, ZHAO Yan (247)
Research on Problem of Discontinuity in Simulation and Its Solvent	QIU Jie (252)
Comparison Research of Several Model Reduction Methods Based on Simulation	DAI Ji - yang, RAN Qiao, et, al (257)
Operator Custom - Design Decoupling Algorithm for Partial Differential Equations	WANG You - ming, WU Qing, et, al (261)
Application of Hilbert Huang Transform in Flight Flutter Testing Data Processing	LIAO Zhen - yang, ZHENG Hua, et, al (265)
Local Outlier Detection Algorithm Based on Shared Reverse K - nearest Neighbor	PAN Zhang - ming, CHEN Yin - li (269)
Energy - Saving Scheduling Algorithm Based on Embedded Dynamic Energy Consumption Balance Car	ZHAO Jian - xun, JIN Xian - hua (274)
Dynamic Simulation of Hydro - Cracking Process	SHAO Shu - cheng, WANG Jian - hong, et, al (278)
Based on Binocular Vision of Mobile Robot Obstacle Avoidance Algorithm Simulation	HE Yi, ZHANG Yi - fei (282)
Joint Fuzzy Logic and Neural Network for Network Selection	LI Hang - yu, LIU Wei, et, al (286)
Large Scale Workshop Scheduling Problem Optimization Method Research and Simulation	LIU Jun, CHEN Rui - sheng, et, al (291)
Personalized Search Using Interactive Genetic Algorithms	KANG Xiao - feng, HU Kun, et, al (295)
Research of Text Categorization Based on Support Vector Machine	CUI Jian - ming, LIU Jian - ming, et, al (299)
Evaluation Model of Materiel Support Plan Based on Neural Network	ZHOU Wei - zhu, HUAN Jing, et, al (303)
IT Service Combination Reliability Analysis Method and Simulation	YANG Hong - bo (308)
Research on Grain Pest' Model Building in Temperature and Humidity Field	NIU Bo, ZHANG Yuan, et, al (312)
Novel Variation Mechanism for Quantum Genetic Algorithm	DAI Yong - qian, ZHANG Ming - wu, et, al (316)
Data Fusion Model for On - Line Inspection in Oil Tubing	ZHOU Qing - zhong, ZHOU Yu - di (322)
Improved Simplified Particle Swarm Optimization	HUANG Tai - an, SHENG Jia - gen, et, al (327)
Research of Fuzzy Adaptive Controller for Single Joint Hopping Robot	GAO Jian, GE Wen - jie (331)
Research and Simulation of Athletes Potential Injury Warning Method	ZHAO Xin - hui, LI Jie, et, al (336)
Intelligent Estimate Method for Biological Wastewater Treatment System Model Parameters	YE Hong - tao (339)
Subcarrier Allocation Research of OFDM System Based on Ant Colony Algorithm	HU Shan - feng, LIN Cheng - yu, et, al (343)
Research on Two - wheeled Self - balanced Robot Based on Variable Universe Fuzzy PID Control	CAO Yu - li, SHI Yi - kai, et, al (347)
Research on Model Building Method of Accurate Precipitation Forecast	FAN Yan, CHENG Lin (351)
Study on Control of First Carbonation Via Generalized Predictive Control Algorithm	SONG Chun - ning, ZHONG Wen - han (354)
Study on Risk Early - Warning System of Building Construction Project	ZHAO Yuan - qing, HOU de - heng (359)
Mass of Rigid Body Real - Time Simulation on GPUs	PENG Lin - chun, YANG Hong - yu, et, al (364)
Infrared Face Recognition Based on Composite Kernel Function KPCA	ZHANG Chao - fu, MA Li - ni, et, al (369)
Based on the Improved Adaptive Watershed Image Segmentation Method Research	Yilihamu · Yaermaimaiti (373)
Simulation Method of Timed Petri Nets Based on Stateflow	CHENG Li, ZHANG Jian - xin, et, al (378)
Method Study of Photoelectric Theodolite Virtual Targets Simulation	YAN Zhi - ming, CHENG Bo, et, al (383)
Multi - Body Dynamics Simulation of Runaway Escapement Based on Virtual Prototype Technology	LIU Gang, LU Jing, et, al (388)
HFC Access Network Design for Video on Demand service	XU Jian, NI Hong, et, al (392)
Study on 3 - D Modeling and Work Dynamic Simulation of Drilling Equipments	REN Wei - jian, ZHAO Yue - jiao, et, al (396)
Research on NEP Impurity Detection in Spinning Process with Computer Vision	HE Xiao - li, SONG Yu (402)
The Submarine Cables Damaged Infrared Image Monitoring Method and Simulation	LIAO Li, HU Hai - zhi (406)
Camera Calibration from Concentric Circles Images	MA Wen - juan, MENG Guang - jun (410)
Semi - Automatic Real - time Contour Extraction Method of Brain MRI Image	HE Xu - jia, YANG Rong - qian, et, al (414)
Face the False Skin Channel Characteristics for the Algorithm Eliminate to Simulation Analysis	LI ju - xia, LI Jian - ping (418)
Research on Foam Separation Ridge in Automation Flotation System	GUO Hong - liang (422)
Simulation and Analysis of Lesions Characteristic Rapid Positioning Algorithm with Endoscope Images	RU Xiao - guang, WEI Zi - bai (426)
Object Three - Dimensional Image Motion Reconstruction Algorithm	HU Cheng - song (430)