

目次

综述

- 复杂系统仿真与人体仿真探讨 董淑英,周玉生(1)

军事领域仿真

- 火控仿真器设计及关键技术分析 赫 赤,董光玲,解文凯,韩东霖(5)
脉冲干扰直接序列扩频系统性能分析 丁亚非,李文生(9)
基于改进的NLMP的自适应脉冲噪声对消器 王晓东,王 成,贾继鹏,王 卓(13)
基于信息一致性的多UUV占领攻击阵位的方法 吴泽伟,吴晓锋(16)
基于模糊模型和神经网络的某扫雷犁系统建模 张 媛,邢宗义,秦 勇,贾利民(21)

航空航天领域仿真

- 基于图像增强的月面特征提取与匹配方法 刘佳璐(27)
空间相机支撑杆峰值应力分析与试验验证 余 飞,吴清文,刘宏伟,邹 艳(31)
洛仑兹力太阳同步轨道的分析与仿真 罗 远,高 扬(37)
Galileo系统BOC(1,1)信号码跟踪算法研究 刘 艳,廖炳瑜,袁 洪(42)
反舰导弹典型运动建模与仿真 李 鹏,胡 炎(46)
温度冲击下星孔药柱应力应变场数值仿真 孟红磊,鞠玉涛,周省长,李 东(49)
小推力轨道转移快速优化设计 解永锋,唐 硕(53)
星载测向定位滤波算法研究 李文华,陆安南(57)
基于PSO与LS-SVM的飞机总体设计的综合论证 史志富,刘海燕(62)
基于HLA的小卫星编队飞行分布式仿真 刘 璟,郑建华,张 皓(66)
基于星载GPS卫星编队可视化仿真系统 陈明剑,周凤歧(71)
时间差分相位平滑伪距定位技术分析研究 姚军生,黄建国(76)

建模与验模

- 基于小波分析的DEM数据多分辨率表达研究 黄 为,魏迎梅,宋汉辰,吴玲达(80)
基于新闻值函数去噪及SVM的建模方法研究 刘春波,王鲜芳,潘 丰(84)
基于HMM的设备剩余寿命预测框架及其实现 马 伦,康建设,赵 强(88)
码头装卸服务G/M/1排队模型及仿真研究 刘丽华,张 涛,张静文(92)

仿真方法与算法

- 一种改进的基于pareto解的多目标粒子群算法 李 纬,张兴华(96)
基于博弈学习的动态频谱分配算法研究 徐浩漫,唐 伦,陈前斌(100)
粒度母体混合分布的微粒群算法研究 王 泽,曲 政,潘章明(105)

网络与互连技术

- 多用户MIMO系统预编码技术的研究 杨 飞,梁晓雯(109)
面向卫星网络的延迟监测算法及仿真实现 徐帆江,李之棠(112)
基于非常规导频的OFDM信道估计 赵建伟,梁晓雯(116)
基于Web的作战仿真实时评估方法及其实现 黄丽娟,鞠儒生,黄 健,黄柯棣(120)
稀疏网络中SIRS病毒局域控制模型与仿真 郭长睿,蔡绍洪,张达敏(124)
遗传算法在网络优化问题中的应用 沐士光(128)
隐马尔可夫模型解决信息抽取问题的仿真研究 史西兵,王浩鸣(132)

人工智能与专家系统

- 基于径向基函数神经网络的混沌干扰信号检测 潘俊阳(136)
中央空调房间温度智能PID控制的仿真研究 唐 鑫,左为恒,李昌春(140)
一类随机非线性系统自适应跟踪的模块化设计 蔡 涛,王 俊(145)
油料装备智能维修仿真平台研究 曾慧娥,周庆忠(149)
应用几何理论的智能机器人路径规划仿真 王菁华,崔世钢(153)
移动机器人全局路径规划的盲人摸路算法 王永兴,丁 睿,姚林泉(157)
基于ADAMS的双足机器人建模与仿真 梁 青,宋宪玺,周 烽,王 永(162)
改进粒子滤波在WSN辅助机器人定位中的应用 李 勇,张 辉,渠 灏,周华平(166)
基于小波分析和神经网络的心音信号研究 郑若金,韩力群,陈天华(170)
子空间聚类改进算法研究综述 李 霞,徐树维(174)

机器人逆运动学分析与仿真 洪 洲(178)

优化仿真

基于改进自适应遗传算法的动力学模型优化 毛 磊,张 湜,姜 岷,陈可泉(182)
FSAE 赛车制动性能仿真与优化 唐应时,李雪鹏,肖启瑞,陈明娟(186)

可视化仿真技术

基于 p-Laplace 算子的 CDD 图像修补算法 李苏莉,王慧琴,杨秀红(189)
基于提升小波的运动模糊图像恢复 王 晓,刘泽乾(194)
图像分割算法在胃溃疡图像上的应用 周学友,傅忠谦,何 力(197)
SAR 图像道路检测及其仿真 梅 珍,林 伟(201)
虚拟植物叶片的可视化建模技术研究 王立臣,淮永建,杨 刚,罗 岱(204)
层状两相流在线监控系统设计与仿真 肖理庆,邵晓根,石天明(209)
图像处理技术在硬度测量系统中的应用研究 李尤丰(213)
一种 JPEG 无损压缩算法的仿真与实现 王文延,何 妮,吴沛宏(217)
基于视觉面距离的三维模型检索 郑燕玲(220)
动态障碍与三维流体交互仿真研究 杨 庆,王仁芳(223)
基于混合对比度增强的户外图像去雾方法 翟艺书,梁 媛(227)
基于 OPENGL 的树木场景渲染分析与实现 黄秀常(231)

虚拟仿真

机载多天线系统的电磁仿真分析 黄 薇,徐恒杰,张 利(235)
一种海洋温度和盐度的虚拟生成方法 康小东,李一平(239)
用于虚拟拆装的力反馈方法 周月飞,张秀山,石 川(243)

能源领域仿真

深海采矿被动升沉补偿系统建模及仿真研究 倪 佳,刘少军,李小飞(247)
空间矢量 PWM 整流器仿真研究 王崇武,李 宏(252)
兼顾精度与速度的计算故障后 SNB 点的方法 李连伟,吴政球(257)
基于粒子群优化 RBF 神经网络原油含水率预测 吴良海(261)
ARIMA 与 SVM 组合模型的石油价格预测 吴 虹,尹 华(264)

交通体系与工具仿真

基于单元生死功能的转向架构架拓扑优化设计 周春平,常锦昕(267)
考虑动态速度上限的车辆行驶虚坡模型 薛国新(271)

制造业仿真

基于闭环控制系统的模具修正算法研究 刘文娟,梁志勇(274)
低压高密度聚乙烯流程动态仿真 吕宏峰,王健红,王璟德,张树增(278)
模糊预测控制在新型干法水泥生产线的应用 郝晓弘,粘 坤,张 帆,刘小鹏(281)
考虑误差的行星齿轮啮合力仿真 赵 宁,惠广林,康士朋,胡坤境(284)

社会科学领域仿真

相位校正器补偿能力的频域特性仿真分析 卢 飞,张 卫(288)
一种需求模型的演化方法 陈迎欣(293)
基于群签名的安全电子拍卖方案 赵丽萍,汤文亮(297)

仿真体系结构与仿真软件平台

基于 SOA 的柔性分布式仿真框架的设计 鄢 沛,郭 皎,应 宏(301)

仿真信息

一种计算机病毒传播模型的分析与仿真 刘 铭,洪 帆,韩兰胜(305)
结构化 LDPC 码流水线译码器的仿真与设计 怀 钰,戴逸民(309)
阶跃型奇异点的小波检测 刘密歌,李小斌(314)

仿真应用研究

光纤布拉格光栅大应变传感器的设计和仿真 徐文宽,王 生(318)
深亚微米工艺下物理噪声源的瞬态噪声分析 江 军,段成华(323)
基于 ADS 微波功率放大器设计与仿真 南敬昌,梁立明,刘 影(327)
基于 RBF 网络的模拟电路故障诊断算法 秦庆强,张晓安,李艾华,史 慧(331)
变形 Rikitake 系统的混沌同步和应用 张济仕,官德龙(336)
一种语音信号端点检测的改进方法 顾亚强,赵 晖,吴 波(340)
ADAMS/Car 在汽车操纵稳定性仿真中的应用 黄志刚,王 丰,朱 慧,王 晶(344)
结构可靠度随机仿真与试验分析 郭咏梅,魏秦文,冯 斌,曲 海(348)
基于 FMFCC 和 HMM 的说话人识别 张永亮,张先庭,鲁宇明(352)
汉语连续语音识别之音素声学模型的改进 吕丹桔,Mei-Yuh Huang, B Hoffmeister(355)
一种视频编解码技术码率控制算法的改进 罗圣敏(359)

CONTENTS

A Discussion on Contents of Complex System Simulation Study and Human Body Simulation Study	DONG Shu - ying, ZHOU Yu - sheng (1)
Design of Fire Control Simulator and Analysis on Its Key Techniques	HE Chi, DONG Guang - ling, XIE Wen - kai, HAN Dong - fei (5)
Analysis of Pulse Jamming Capabilities for Direct Sequence Spread Spectrum Communication	DING Ya - fei, LI Wen - sheng (9)
An Adaptive Impulsive Noise Canceller Based on Modified NLMP Algorithm	WANG Xiao - dong, WANG Cheng, WANG Zhuo (13)
A Method of Occupying Attack Position with Multiple UAVs Based on Information Consensus	WU Ze - wei, WU Xiao - feng (16)
Modelling of the Electrohydraulic Servo System of a Certain Mine Sweeping Plough Based on Fuzzy Model and Neural Network	ZHANG Yuan, XING Zong - yi, QIN Yong, JIA Li - min (21)
Feature Extracting and Matching Algorithm for Lunar Image Based on Image Enhancement	LIU Jia - lu (27)
Research on Analysis and Test of the Peak Value of Stress on Supporting Structure of Space Camera	YU Fei, WU Qing - wen, LIU Hong - wei, ZOU Yan (31)
Analysis and Simulation of Lorentz - Force Sun - synchronous Orbit	LUO Yuan, GAO Yang (37)
Galileo BOC(1,1) Signal Code Tracking Based on ASPECT Technique	LIU Yan, LIAO Bing - yu, YUAN Hong (42)
Typical Motion Modeling of Anti - ship Missile and Simulation	LI Peng, HU Yan (46)
Simulation of Stress and Strain for Internal Star - Shaped Grain under Temperature Shock	MENG Hong - lei, JU Yu - tao, ZHOU Chang - sheng, LI Dong (49)
Rapid Optimization of Low - Thrust Orbit Transfer	XIE Yong - feng, TANG Shuo (53)
Research on Filter Algorithm of Satellite - based Direction - finding and Location	LI Wen - hua, LU An - nan (57)
Study on Intelligent Evaluation for Airplane Design Based on PSO and LS - SVM	SHI Zhi - fu, LIU Hai - yan (62)
HLA Distributed Simulation for Small Satellite Formation Flying	LIU Jing, ZHENG Jian - hua, ZHANG Hao (66)
The Visual Simulation System Based On Satellite - Borne GPS Satellites Formation Flying	CHEN Ming - jian, ZHOU Feng - qi (71)
Investigations on Time - Difference Carrier - Phase Smoothing Pseudorange Algorithm	YAO Jun - sheng, HUANG Jian - guo (76)
Multi - Resolution Representation of DEM Based on Wavelet Analysis	HUANG Wei, WEI Ying - mei, SONG Han - chen, WU Ling - da (80)
Study of Modelling Based on a New Kind of Thresholding Functions De - Noising and SVM	LIU Chun - bo, WANG Xian - fang, ZHANG Yao, PAN Feng (84)
Implementation of Equipment Residual Life Prediction Framework Based on Hidden Markov Model	MA Lun, KANG Jian - she, ZHAO Qiang (88)
Research on Dock Load and Unload Service G/M/1 Queuing Model and Simulation	LIU Li - hua, ZHANG Tao, ZHANG Jing - wen (92)
An Improved Multi - objective Particle Swarm Optimization Algorithm Based on Pareto	LI Wei, ZHANG Xing - hua (96)
An Investigation of Dynamic Spectrum Allocation Algorithm Based on Game Learning	XU Hao - man, TANG Lun, CHEN Qian - bin (100)
Research of Particle Swarm Optimization Algorithm to the Mixed Distribution of Granularity Mother	WANG Ze, QU Zheng, PANG Zhang - ming (105)
Precoding in Multiuser MIMO System with Imperfect Channel State Information	YANG Fei, LIANG Xiao - wen (109)
An Algorithm for Link Delay Monitoring and its Simulation in Satellite Network	XU Fan - jiang, LI Zi - tang (112)
OFDM Channel Estimation Based on Irregular Pilots	ZHAO Jian - wei, LIANG Xiao - wen (116)
Study and Implementation of Warfare Simulation Real - time Evaluation Method Based on Web	HUANG Li - juan, JU Ru - sheng, HUANG Jian, HUANG Ke - di (120)
Local Area Control of SIRS Epidemic Model and Simulation in Sparse Network	GUO Chang - rui, CAI Shao - hong, ZHANG Da - min (124)
Research and Application of Genetic Algorithm in Network Optimization	MU Shi - guang (128)
Application Research of Hidden Markov Model on Web Information Extraction	SHI Xi - bing, WANG Hao - ming (132)
Signal Detection in Strong Chaotic Interference Based on RBF Neural Network	PAN Jun - yang (136)
Emulation of Intelligent PID Controller in Temperature of Central Air - conditioning System	TANG Xin, ZUO Wei - heng, LI Chang - chun (140)
Modularized Design of Adaptive Tracking for a Class of Stochastic Nonlinear Systems	CAI Tao, WANG Jun (145)
Research on Intelligent Maintenance Simulation Platform for Oil Equipment	ZENG Hui - e, ZHOU Qing - zhong (149)
Simulation of a Comprehensive Path Planning for Intelligent Robot Using Geometry Rules	WANG Jing - hua, CUI Shi - gang (153)
The Blind Groping Algorithm: Global Path Planning for Mobile Robot	WANG Yong - xing, DING Rui, YAO Lin - quan (157)
Modeling and Simulation of Biped Robot Based on ADAMS	LIANG Qing, SONG Xian - xi, ZHOU Feng, WANG Yong (162)
Application of Improved Particle Filter in WSN - aided Robot Localization	LI Yong, ZHANG Hui, QU Ying, ZHOU Hua - ping (166)

Study on Heart Sounds Signals Based on Wavelet Analysis and Neural Network	ZHENG Ruo - jin, HAN Li - qun, CHEN Tian - hua (170)
Summary of Subspace Clustering Algorithms Research Based on CLIQUE	LI Xia , XU Shu - wei (174)
An Inverse Kinematics Simulation and Analysis for Robot	HONG Zhou (178)
Optimizing of the Kinetic Models Based on Modified Adaptive Genetic Algorithm	MAO Lei, ZHANG Shi, JIANG Min, CHEN Ke - quan (182)
Simulation and Optimization on the Brake Performance of the FSAE Racing Car	TANG Ying - shi , LI Xue - peng , XIAO Qi - rui , CHEN Ming - mei (186)
Image Inpainting Using CDD Based On P - Laplace	LI Su - li, WANG Hui - qin, YANG Xiu - hong (189)
Mobile Blurring Image Restoration Based on Lifting Wavelet	WANG Xiao, LIU Ze - qian (194)
Image Division Algorithm in the Application of Gastric Ulcer Image	ZHOU Xue - you, FU Zhong - qian, HE Li (197)
SAR Image Road Detection And Simulation	MEI Zhen, LIN Wei (201)
Research on Realism Leaves Modeling and Rendering in Virtual Botany	WANG Li - chen, HUAI Yong - jian, YANG Gang, LUO Dai (204)
The Design and Simulation of an On - line Monitoring System for Stratified Two Phase Flow	XIAO Li - qing, SHAO Xiao - gen, SHI Tian - ming (209)
A Hardness System with Image Process Technology	LI You - feng (213)
A Lossless Compression Method for JPEG Based on Shuffle Algorithm	WANG Wen - yan, HE Ni, WU Pei - hong (217)
3D Model Retrieval Based on Visual Distance	ZHENG Yan - ling (220)
Simulation of Interaction Between Dynamic Obstacles and 3D Fluids	YANG Qing, WANG Ren - fang (223)
Defogging Method of Outdoor Scene Images Based on Hybrid Contrast Enhancement	ZHAI Yi - shu, LIANG Yuan (227)
Analysis and Implementation of Tree Scene Rendering and Modeling	HUANG Xiu - chang (231)
Electromagnetic Simulation of Airborne Multi - antenna System	HUANG Wei, XU Heng - jie, ZHANG Li (235)
A Kind of Virtual Implementation Method of Ocean Temperature and Salinity	KANG Xiao - dong, LI Yi - ping (239)
A Force Feedback Method Used for Virtual Disassembly and Assembly with a Joystick	ZHOU Yue - fei, ZHANG Xiu - shan, SHI Chuan (243)
Modeling and Simulation Research on Passive Heave Compensation System for Deep Sea Mining	NI Jia, LIU Shao - jun, Li Xiao - fei (247)
The Investigation on the PWM Rectifier Using the SVPWM	WANG Chong - wu, LI Hong (252)
A New Method to Compute Loading Margin to Voltage Collapse after Fault	LI Lian - wei, WU Zheng - qiu (257)
Prediction of Crude Oil Moisture Based on RBF Neural Network Optimized by PSO	WU Liang - hai (261)
Oil Price Forecasting Based on ARIMA and SVM Hybrid Model	WU hong, YIN hua (264)
Topology Optimization Design of Bogie Frame Based on Element Birth and Death	ZHOU Chun - ping, CHANG Jin - xin (267)
Imaginary Slope Model of Running Vehicles with Dynamic Speed Up Limits	XUE Guo - xin (271)
Model Amendment Algorithm Base on Closed - Loop Feedback Control System	LIU Wen - juan, LIANG Zhi - yong (274)
Dynamic Simulation of HDPE Process	LV Hong - feng, WANG Jian - hong, ZHANG Shu - zeng (278)
The Application of Fuzzy Predictive Control to a Cement Clinker Power Saving Greenline	HAO Xiao - hong, NIAN Kun, ZHANG Fan, LIU Xiao - peng (281)
The Meshing Force Simulation of Planetary Gear Considering of The Error	ZHAO Ning, HUI Guang - lin, KANG Shi - peng, HU Kun - jing (284)
Simulation of Deformable Mirror's Frequency Character Analysis of Compensation Capabilities of Wavefront	LU Fei, ZHANG Wei (288)
An Evolution Method of Requirements Model	CHEN Ying - xin (293)
A Secure Electronic Auction Scheme Based on Group Signature	ZHAO Li - ping, TANG Wen - liang (297)
The Design of a Flexible Distributed Simulation Framework Based on SOA	YAN Pei, GUO Jiao, YING Hong (301)
Analysis and Simulation of a Computer Virus Model	LIU Ming, HONG Fan, HAN Lansheng (305)
Simulation and Design of Pipelined Decoder for Structured LDPC	HUAI Yu, DAI Yi - min (309)
Detection of Step Singularity Based on Wavelet	LIU Mi - ge, LI Xiao - bin (314)
Design and Simulation of a Fiber Bragg Grating (FBG) Large - strain Sensor	XU Wen - kuan , WANG Sheng (318)
Transient Noise Analysis of Physical Noise Generator in Deep Submicron CMOS Technology	JIANG Jun, DUAN Cheng - hua (323)
Design and Simulation of Microwave Power Amplifier Based on ADS	NAN Jing - chang, LIANG Li - ming, LIU Ying (327)
Algorithm Based on RBF Artificial Network for Analog Circuit Faults Diagnosis	QIN Qing - qiang , ZHANG Xiao - an, LI Ai - hua, SHI Hui (331)
Chaos Synchronization and Application of a Modified Rikitake System	ZHANG Ji - shi, GONG De - long (336)
An Improved Method of the Voice Endpoint Detection	GU Ya - qiang, ZHAO Hui, WU Bo (340)
ADAMS/Car for Simulation of Vehicle Handling and Stability ...	HUANG Zhi - Gang, WANG Feng, ZHU Hui, WANG Jing (344)
Test and Analysis of Structural Optimal Reliability with a Stochastic Simulation Method	GUO Yong - mei, WEI Qin - wen, FENG Bin, QU Hai (348)
Speaker Recognition Based on FMFCC and HMM	ZHANG Yong - liang, ZHANG Xian - ting, LU Yu - ming (352)
Improvement of Phoneme Acoustic Modeling in Large Vocabulary Continuous Mandarin Speech Recognition System	LU Dan - ju , Mei - Yuh Huang, B Hoffmeister (355)
An Improved Rate Control Algorithm in Video Coding Techniques	LUO Sheng - min (359)