

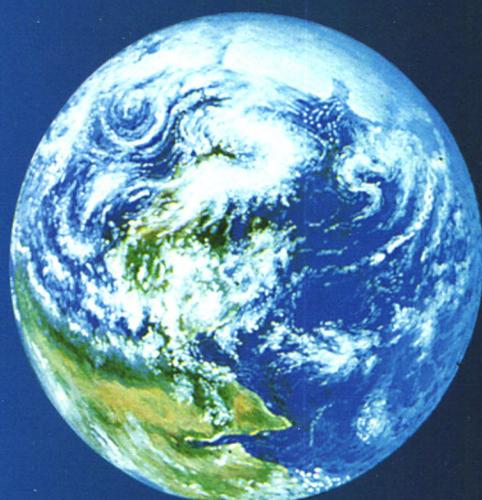


中文核心期刊
中国计算机用户协会会刊

ISSN 1006-9348

计算机仿真

COMPUTER SIMULATION



ISSN 1006-9348



06 >

万方数据

9 771006 934033

6
2015

目 次

军事领域仿真

电传动履带车辆再生制动控制策略设计与验证	张晓辰,涂群章,潘 明(1)
基于图像的火炮打击程度判断模型仿真	郭 猛,范平志(6)
旁瓣对消抗炮瞄雷达同频干扰研究	吕 波,梁四洋,高 强(9)
基于双基地雷达探测的跟踪优化建模仿真研究	程 丰,湛 兰,卢一帆(13)
激光精确跟踪平台控制系统的设计	张 婷,张玉振,李 靓,张维存(18)
刚柔耦合小口径自动炮发射过程动态特性仿真	罗建华,徐 达(23)

航空航天领域仿真

单发螺旋桨飞机侧飞轨迹控制模型的仿真分析	王艳红,赵文智,袁 丁(26)
基于改进遗传算法的动力伞气动参数辨识研究	王雅平,齐晓慧,张 吴,邱金刚(31)
航空器中太阳能发电系统建模与能量流动控制	滕国飞,赵 刚,张 楷,闫 稳(35)
舰载预警直升机协同探测建模与仿真研究	宋孝先,付国宾,张 超(41)
航空发动机温度过热故障挖掘模型仿真	李玮瑶,赵 凯,孙胜耀(46)
一种改进蚁群算法的 UAV 航迹规划方法	邬 琦,潘广贞,杨江涛(50)
UCAV 多目标侦察三维航迹规划仿真研究	王晓飞,曹林平,焦朋勃(55)
高超声速滑翔飞行器非线性变结构自适应控制	常莹莹,王小虎,何 纯,曾宪法(59)
因子图在卫星姿态估计中的应用	陈恩庆,肖素珍,高新利(63)
机场区域中人群涉暴恐动作智能识别方法仿真	张 宁,朱金福(67)
有效载荷分离释放弹簧的设计与计算	郑龙飞,杨 萱,杨 华(71)
嵌入式辅助下的飞行器优化控制模型仿真	王江峰,张晓力,陈天华(76)
组合体航天器变拓扑过程中姿态稳定控制研究	李 磊,周 军,黄 河,张 浩(80)
失事后机身摩擦受热与燃烧的数学建模仿真	杨志忠(84)
客舱乘务员疲劳风险综合量化评价体系研究	田玲玲(88)
基于改进 GEP 的航空器故障数据挖掘研究与仿真	阮梦黎(92)
飞机电缆屏蔽层环路阻抗信号降噪方法研究	王 茜,牟春宇,王家林,石旭东(96)
无人机侧翼飞行中角度控制器的设计与仿真	陈 军,王 霞(100)
基于改进遗传算法的民航应急救灾物资调度	李桂香,马 蕾(104)
战斗机摆脱跟踪最优路线模型	刘建粉,李玮瑶,孙胜耀(108)

能源领域仿真

两级式三相光伏并网发电系统仿真研究	王晓明,吕金恒,强明辉(112)
永磁同步风力发电机风能追踪控制仿真研究	程若发,陈立虎,马银平,于新红(116)
光伏并网功率调节系统的仿真研究	王 尉,王 薄,曹艳侠,亓 才(1120)
单相 PWM 整流器抗扰动控制策略研究	余发山,刘根锋,张宏伟,耿 冲(125)
风光储混合电站协调控制与仿真	冯祎鑫,汤 奕,朱凌志,金淋芳(130)
海洋钻井单立管系统流场仿真分析研究	徐 涛,刘清友,陶 雷(135)
基于模糊综合评价法的变压器运行状态评估	王福忠,邵淑敏(141)

交通体系与工具仿真

车头图像采集数量统计的拥堵情况判断仿真	杨新锋,刘 艳,刘克成(146)
公交车危险动作视觉图像识别仿真	许丽娟,刘大龙(150)
铁路牵引供电系统优化控制仿真研究	赵 燕,张 靖(154)
交通路口 WSN 金属电磁探测汽车信息采集仿真	韩义波,韩 璞(158)
T型交叉口多速混合交通流特性研究	朱昶胜,李易泽,冯文芳(162)
基于优化参数的短时交通流预测仿真研究	王少华,杨慧慧(167)
多轴车辆转向系统神经网络控制算法研究	庞文杰,王云超,叶存达,杨朝阳(172)

信息仿真

均匀圆阵天线中 DOA 估计算法的研究	孙翠珍(177)
基于混沌系统的图像联合压缩加密算法	陈益刚,邓家先,谢凯明(182)
基于改进杂草算法的阵列信号 DOA 估计	刘 影,谢 红,解 武(188)
基于龙格 - 库塔法的磁感应波传播仿真	刘 锋,祝连庆,娄小平,何 巍(192)
井下巷道天线无线通信信号检测仿真研究	高 慧,成凌飞,张冰丽(196)
战舰实时通信系统中的优化通信过程仿真分析	王亚飞,刘亮亮(200)
云计算环境下多信道均衡方法研究与仿真	谢胜军,蔡利平(204)

制造业仿真

关于螺旋搅拌装置稳定性优化设计仿真研究	王旭东,张贤明(208)
---------------------	----------------

教学仿真

基于虚拟现实技术的轮机英语环境仿真研究 张 宁,罗卫华,刘迎春,沈智鹏(212)

仿真应用研究

- 沙疗室加热温度优化建模与仿真研究 张 腾,居来提·买提肉孜,张春广,胡小鑫(218)
空间微振动模拟器构型优化设计研究 石 柱,徐振邦,杨剑锋,吴清文(224)
起重机箱梁腹板局部屈曲失稳特性研究 付为刚,尚永锋,王 弘,侯甲栋(229)
基于多传感器动态信号采集水温检测系统设计 谭营军,王爱强,李翠霞(233)
基于改进 PID 算法的小区域温度控制模型仿真 蔡金萍,李 莉(237)
基于机器视觉的激光条纹扫描系统 李博阳,耿 楠,张志毅(241)
波纹干扰抑制下内河 CCTV 系统运动船舶检测 滕 飞,刘 清,朱 琳,李 静(247)

仿真方法与算法

- 求绝对值方程的改进自适应差分进化算法 宁桂英,周永权(251)
求解背包问题的病毒进化蝙蝠算法 张 晶,吴虎胜(256)

仿真系统

- 基于虚拟现实的采煤机培训系统开发 王大虎,刘海洋,王敬冲(262)

仿真网络化

- 采用改进算法对无线网络节能优化仿真研究 吉正洵,江 冰,李丽芳,黄 鹏(266)
无线网络通信覆盖优化仿真研究 谢佳华,刘 军(271)
云计算环境下的联合网络入侵检测方法仿真 吴 琼(276)
潜在底层网路可产生破坏性的数据挖掘仿真 翟建丽(280)
物联网移动通信信号定位优化模型仿真 蒋建军(284)
云计算环境下海量数据中入侵检测挖掘模型 刘增锁(289)
基于双模调频分解的网络攻击信号检测仿真 杨君普,杨 旺,于 莹(292)

仿真智能化

- 经纬仪轴系伺服系统滑模控制仿真研究 刘春桐,李 冰,何祯鑫,李洪才(296)
多目标优化在中央空调节能优化系统中的应用 梁 静,宋 慧,王 龙,瞿博阳(302)
四足机器人质心位置规划及稳定性分析 韩晓建,商李隐,杨 涌(308)
分数阶 Lorenz 混沌系统的同步控制 戴朱祥,吴庆庆,李 涛(314)
肠癌内镜图像中病变的细微特征捕获模型仿真 王 哲,李海瑛,张 钰(320)
基于线性自抗扰控制的 UUV 航向控制器设计 黄 健,何江虹(324)
绳长变化的桥式起重机位置跟踪迭代控制 李富国,栗三一(329)
多核嵌入式系统的节能优化调度算法仿真 彭文艺(335)
气象因素对建筑室内温度影响的建模与分析 王文标,蔡 麒,汪思源(338)
基于线性约束 H_∞ 滤波的道路目标跟踪算法研究 邹 震,贺丰收,缪礼锋(344)
基于离散事件仿真原理的多主体仿真控制方法 郭勇陈,沈 洋(349)
大规模联合软件异常监测模型算法仿真 张秋红,杨东芳,路新华(356)
云计算环境下的复杂数据库并行调度模型仿真 郭 晴,杨海霞,刘永泰(360)
三维复杂场景路径规划仿真系统设计与分析 周 静,彭 冲(364)
中药放置环境下挥发速度与温度控制建模 郭冰洁(368)
云计算环境下服务器故障区快速定位模型仿真 凌 琳(373)
基于多数据库并行调度的复杂方法研究与仿真 张星云(378)
最优乒乓球运动员身体特征寻优筛选挖掘建模 马媛媛,杨 磊(382)
兼顾碳排放量和效率的集卡调度多目标优化 卢毅勤,杨 磊,黄有方(386)
工业自动化 DCS 的网络优化通信过程仿真 高利军(390)
基于改进遗传算法的电力电机的转角偏移测量 王 霞,陈 军(394)
大规模聚集人群的疏散仿真模型研究 蒋雪玲,潘 颖(398)
复杂多智能体系统的最大一致性 王付永,杨洪勇,翁 灿(403)

仿真虚拟化

- 东巴古迹虚拟场景增强现实仿真研究 谢孔凯,申闫春(407)
维修系统拆卸可视化建模 胡迎刚(412)
基于双欧算法仿真游戏场景中飞行器轨迹控制 王 辉,曹 莹(416)

仿真服务化

- 基于速度矢量坐标系的多船自动避碰研究 陈姚节,李 爽,范 桓,吴 乔(420)
大面积延误下登机口处旅客快速登机问题研究 任新惠,苏 欣(425)
烧结烟气脱硫过程数值仿真及参数影响分析 夏建芳,张红波,赵先琼(430)
台风最大风速预测建模仿真与研究 李红丽,王 鑫(435)
基于 FABP 的软件可靠性增长模型 刘 逻,哈清华,王安邦(440)
旅游信息系统中的防冲突任务调度模型仿真 杨宏波(447)
安防监控中人员遮挡区域的有效图像分割研究 师晓利,尚怡君,褚玉晓(452)

CONTENTS

Design and Verification of Regenerative Braking Control Strategy of Electric Tracked Vehicle	ZHANG Xiao - chen, TU Qun - zhang, et, al (1)
Simulation of Artillery Strike Degree Judgment Model Based on image	GUO Meng, FAN Ping - zhi (6)
Study of Sidelobe Cancellation Against Common Frequency Jamming Resistance of Gun Directing Radar	LV Bo, LIANG Si - yang, et, al (9)
Modeling and Simulation of Track Optimization Based on Bistatic Radars Detection	CHENG Feng, ZHAN Lan, et, al (13)
Control System Design of Precise Laser Tracking Platform	ZHANG Ting, ZHANG Yu - zhen, et, al (18)
Dynamic Simulation of A Small - Caliber Automatic Gun Firing Dynamic Characteristics Based on Rigid - flexible - Coupling Model	LUO Jian - hua, XU Da (23)
Simulation Analysis for Side Flight Trajectory Control of Single Propeller - driven Aircraft	WANG Yan - hong, ZHAO Wen - zhi, et, al (26)
Identification for Aerodynamic Coefficients of Powered Paraglider Based on Improved Genetic Algorithm	WANG Ya - ping, QI Xiao - hui, et, al (31)
Modeling and Energy Flow Control of Solar Power Generation System in Aircraft	TENG Guo - fei, ZHAO Gang, et, al (35)
Modeling and Simulation of Shipboard Early Warning Helicopters Collaboration Detection	SONG Xiao - xian, FU Guo - bin, et, al (41)
Aviation Engine Temperature Overheating Fault Mining Model Simulation	LI Wei - yao, ZHAO Kai, et, al (46)
Route Planning of UAV Based on Improved Ant Colony Algorithm	WU Qi, PAN Guang - zhen, et, al (50)
Simulation and Research of Three - Dimensional Trajectory Planning for UCAVs Reconnaissance of Multi - target	WANG Xiao - fei, CAO Lin - ping, et, al (55)
Study on Nonlinear Variable Structure Adaptive Control Law for Hypersonic Gliding Vehicle	CHANG Ying - ying, WANG Xiao - hu, et, al (59)
Estimation of Satellite Attitude Angular Velocity Based on Factor Graph	CHEN En - qing, XIAO Su - zhen, et, al (63)
Intelligent Recognition Method Simulation of Critical Action of People Involved In Airport Areas	ZHANG Ning, ZHU Jin - fu (67)
Design and Calculation of Compression Spring of Releasing Payload	ZHENG Long - fei, YANG Xuan, et, al (71)
Simulation of Optimization Control Model of Aircraft Assisted by Embedded	WANG Jiang - feng, ZHANG Xiao - li, et, al (76)
Attitude Stabilization Control of Compound Spacecraft in the Process of Changing Topologies	LI Lei, ZHOU Jun, et, al (80)
Mathematical Modeling and Simulation of Fuselage Friction Heating and Burning after Crash	YANG Zhi - zhong (84)
Research on Comprehensive Evaluation System of Fatigue Risk for Cabin Crew	TIAN Ling - ling (88)
Simulation of Aircraft Fault Data Mining Algorithm Based on Mew GEP	RUAN Meng - li (92)
Research on Noise Reduction of Weak Signals in loop Impedance Measurement of Aircraft Cable Shield	WANG Qian, MU Chun - yu, et, al (96)
Design and Simulation of Angle Controller for Flying Wing Uav	CHEN Jun, WANG Xia (100)
Emergency Relief Materials Scheduling of Civil Aviation Based on Improved Genetic Algorithm	LI Gui - xiang, MA Lei (104)
Based on Large Data Fighter from Tracking Model of Optimal Route	LIU Jian - fen, LI Wei - yao, et, al (108)
Simulation of Congestion Judgment Based on Image Acquisition Quantity Statistics of Car Front	YANG Xin - feng, LIU Yan, et, al (112)
Simulation Research of Two - Stage Three - Phase PV Grid - connected System	WANG Xiao - ming, LV Jin - heng, et, al (116)
Simulation of Wind Energy Tracking Control for Permanent Magnet Synchronous Wind Turbine Generator	CHENG Ruo - fa, CHEN Li - hu, et, al (120)
Simulation Research on Grid - Connected Photovoltaic Power Conditioning System	WANG Wei, WANG Ping, et, al (124)
Research on Anti - Disturbance Control Strategy of Single - phase PWM Rectifier	YU Fa - shan, LIU Gen - feng, et, al (129)
Coordinated Control and Simulation of a Wind - PV - ES Hybrid Power Generation Station	FENG Yi - xin, TANG Yi, et, al (134)
Analysis of Flow Field Simulation of Marine Drilling Single Riser System	XU Tao, LIU Qing - you, et, al (139)
Fuzzy Strategy on Running State Evaluation of Oil - Immersed Power Transformer	WANG Fu - zhong, SHAO Shu - min (145)
Simulation of Visual Image Recognition of Dangerous Actions in Buses	XU Li - juan, LIU Da - long (150)
Simulation Study on Optimal Control of Railway Traction Power Supply System	ZHAO Yan, ZHANG Jing (154)
Simulation of Car Information Collection Based on WSN Metal Electromagnetic Detection at Traffic Intersection	HAN Yi - bo, HAN Pu (158)
Study on Characteristics of Traffic Flow at T - Shaped Intersection with Mixed Different Maximum Speed Vehicles	ZHU Chang - sheng, LI Yi - ze, et, al (162)
Short - Term Traffic Flow Prediction Simulation Research Based on Optimized Parameters Method	WANG Shao - hua, YANG Hui - hui (167)
A Neural Network Control Algorithm of Multi - Axle Vehicle Steering System	PANG Wen - jie, WANG Yun - chao, et, al (172)
DOA Estimation Algorithms in Uniform Circular Array Antenna	SUN Cui - zhen (177)
Image Joint Compression Encryption Algorithm Based on Chaotic System	CHEN Yi - gang, DENG Jia - xian, et, al (182)
DOA Estimation of Array Signal Based on Modified Weed Algorithm	LIU Ying, XIE Hong, XIE Wu (188)
Simulation of MI Wave Propagation Based on the Runge - Kutta Method	LIU Feng, ZHU Lian - qing, et, al (192)
Simulation of Antenna Wireless Communication Signal in Underground Tunnels	GAO Hui, CHENG Ling - fei, et, al (196)
Simulation Analysis of Optimization Communication Process in Real - Time Communication System of Warship	WANG Ya - fei, LIU Liang - liang (200)
Research and Simulation of Multi Channel Equalization Method Under Cloud Computing Environment	XIE Sheng - jun, CAI Li - ping (204)

Optimization Design and Simulation Research of Mixing Impeller Stability	WANG Xu - dong,ZHANG Xian - ming (208)
Research on Marine Engineering English Environment Simulation Based on Virtual Reality Technology	ZHANG Ning,LUO Wei - hua,et, al (212)
Optimal Modeling and Stimulation Study on Heating Temperature in Sand Therapy Room	ZHANG Teng,JULAITI · Maitirouzi, et, al (218)
Study of Configuration Optimization Design for Space Vibration Simulator	SHI Zhu, XU Zhen - bang,et, al (224)
Buckling Character Research of Web Plates for Crane'S Box Girder	FU Wei - gang,SHANG Yong - feng,et, al (229)
System Design of Water Temperature Detection Based on Multisensor Dynamic Signal Acquisition	TAN Ying - jun,WANG Ai - qiang,et, al (233)
The Small Area Temperature Control Model Based on Improved PID Algorithm Simulation	CAI Jin - ping, LI Li (237)
A Line Structured Light 3D Scanning System Based on Binocular Stereo Vision	LI Bo - yang,GENG Nan,et, al (241)
Ripple - Driven Ship Detection in Inland Waterway CCTV System	TENG Fei, LIU Qing, et, al (247)
An Improved Adaptive Differential Evolution Algorithm for Solving Absolute Value Equations	NING Gui - ying,ZHOU Yong - quan (251)
Virus Evolutionary Bat Algorithm for Knapsack Problem	ZHANG Jing,WU Hu - sheng (256)
Development of Shearer Training System Based on Virtual Reality	WANG Da - hu,LIU Hai - yang,et, al (262)
Research and Similation of an Improved Algorithm Based on LEACH Algorithm	JI Zheng - xun,JIANG Bing,et, al (266)
Optimization Simulation of Wireless Network Communication Coverage	XIE Jia - hua,LIU Jun (271)
Simulation of Joint Network Intrusion Detection Method under Cloud Computing Environment	WU Qiong (276)
Simulation of Destructive Data Mining in Potential Underlying Network	ZHAI Jian - li (280)
Simulation of Optimization Model for Iot Mobile Communication Signal Location	JIANG Jian - jun (284)
Intrusion Detection Mining Models in Huge Amounts of Data Cloud Computing Environment	LIU Zeng - suo (289)
Simulation of Network Attack Signal Detection Based on Dual - mode FM Decomposition	YANG Jun - pu, YANG Wang, et, al (292)
Sliding Mode Control of Theodolite Axis Servo System	LIU Chun - tong,LI Bing,et, al (296)
Application of Multi - Objective Optimization in Energy Saving for Air Conditioning System	LIANG Jing, SONG Hui,et, al (302)
Centroid Position Planning and Stability Analysis of a Quadruped Robot	HAN Xiao - jian,SHANG Li - yin,et, al (308)
Synchronization Control of Fractional - Order Lorenz Chaotic Systems	DAI Zhu - xiang,WU Qing - qing, et, al (314)
Simulation on Subtle Feature Capture Model of Lesions in Intestinal Cancer Endoscopic Image	WANG Zhe, LI Hai - Ying, et, al (320)
UVV Heading Attitude Controller Design Based on Linear ADRC Technology	HUANG Jian,HE Jiang - hong (324)
Iterative Control of Bridge Crane Location Tracking With Changing Cord Length	LI Fu - guo,LI San - yi (329)
Simulation of Energy Saving Optimization Scheduling Algorithm for Multi - Core Embedded System	PENG Wen - yi (335)
Modeling and Analysis of Meteorological Factors' Impact on Building Indoor Temperature	WANG Wen - biao,CAI Qi,et, al (338)
Road Targets Tracking Methods Research Based on Linear Constraints H_{∞} Filtering	Zou Zhen,He Feng - shou,et, al (344)
Control Method of Multi Agent Simulation Based on Principle of Discrete Event Simulation	GUO Yong - chen,SHEN Yang (349)
Simulation of Anomaly Monitoring Model Algorithmfor Large - Scale Joint Software	ZHANG Qiu - hong,YANG Dong - fang,et, al (356)
Simulation of Parallel Scheduling for Complex Database under Cloud Computing Environment	GUO Qing,YANG Hai - xia,et, al (360)
Research and analysis of path planning simulation system for three - dimensional complex scene	ZHOU Jing, PENG Chong (364)
Modeling of Volatile Speed and Temperature Control under Traditional Chinese Medicine (TCM) Placed Environment	GUO Bing - jie (368)
Simulation of Rapid Positioning for Server Failure Area under Cloud Computing Environment	LING Lin (373)
Research and Simulation of Complex Method Based on Multi - database Parallel Scheduling	ZHANG Xing - yun (378)
Modeling of Optimization Screening Mining for Optimal Table Tennis Athletes Physical Characteristics	MA Yuan - yuan,YANG Lei (382)
YT Scheduling with Two Objects of Carbon Emission and High Efficiency	LU Yi - qin,YANG Bin ,et, al (386)
Simulation of Communication Process for Industrial Automation Network Optimization of DCS	GAO Li - jun (390)
Turn Angle Deviation Measurement of Electric Motor Based on Improved Genetic Algorithm	WANG Xia, CHEN Jun (394)
An Improved Model of Large Scale Crowd for the Evacuation	JIANG Xue - ling ,PAN Ying (398)
Maximum Consistence of Complex Multi - Agent Systems	WANG Fu - yong, YANG Hong - yong,et, al (403)
Simulation of Realistic SURF Algorithm of Enhancement of Dongba Cultural Monuments	XIE Kong - kai,SHEN Yan - chun (407)
Visual Modeling of Disassembly for Maintenance System	HU Ying - gang (412)
Trajectory Control Study on Simulated Aircraft Based on Dual - Europe Algorithm in Game Scene ...	WANG Hui,CAO Ying (416)
Automatic Collision Avoidance of Multi - Ships Based on Velocity Vector Coordinate ...	CHEN Yao - jie, LI Shuang, et, al (420)
Methods of Quick Boarding at Departure Gate In Case of Extensive Delay	REN Xin - hui,SU Xin (425)
Numerical Simulation and Analysis of Parameters' Influence on Sintering Flue Gas Desulfurization Process	XIA Jian - fang,ZHANG Hong - bo,et, al (430)
Modeling and Simulation of Maximum Wind Speed Prediction for Typhoon	LI Hong - li, WANG Xin (435)
Software Reliability Growth Model Based on FABP	LIU Luo,HA Qing - hua,et, al (440)
Simulation of Anti - Collision Task Scheduling Model of Tourism Information System	YANG Hong - bo (447)
Effective Image Segmentation of Security Video Monitor in People Keep Out Area ...	SHI Xiao - li,SHANG Yi - jun,et, al (452)



中国科技核心期刊

(中国科技论文统计源期刊)

收录证书

CERTIFICATE OF SOURCE JOURNAL
FOR CHINESE SCIENTIFIC AND TECHNICAL PAPERS AND CITATIONS

计算机仿真

经过多项学术指标综合评定及同行专家
评议推荐，贵刊被收录为“中国科技核心期
刊”(中国科技论文统计源期刊)。

特颁发此证书。



中国科学技术信息研究所

Institute of Scientific and Technical Information of China

北京复兴路 15 号 100038 www.istic.ac.cn

2014 年 9 月

证书编号：S049-2014

有效期至：2015 年 12 月