

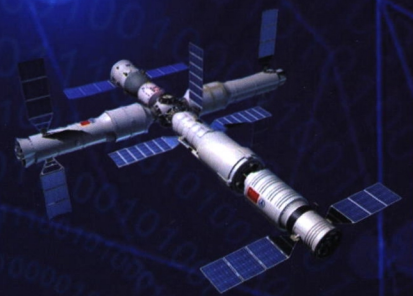


中文核心期刊
中国计算机用户协会会刊

ISSN  QK2226512

计算机仿真

Computer Simulation



ISSN 1006-9348
 6 >
9 774006 934033
万方数据

6
2022

目次

综述

- 智慧图书馆仿真平台体系的构建研究 郭新华,陈建华(1)
5G赋能第5代指挥信息系统 王元双,郑振国,余惠彬(5)

军事领域仿真

- 高纯锗伽玛谱仪测量影响因素建模与仿真设计 孙仲涛,宋建,安佳康(9)
虚实结合的地面无人装备体系试验平台研究 王新宇,郭齐胜(15)

航空航天领域仿真

- 某航天器转载过程中瞬态碰撞动力学研究 郭君斌,于传强,王俊提,高杨(21)
一种延误航班旅客动态出行需求量预测算法 景一真,赵耀帅,傅之凤,吴裕(26)
成本约束下多机场群航班频率优化模型仿真 韦薇,何晶(31)
螺旋桨滑流对环形进气道性能影响的数值仿真 杨成凤,段卓毅,张宏,丁兴志(36)
基于齐次变换的低空无人机防撞导引控制方法 张虹波,匡银虎(42)
基于差分进化算法的四旋翼PID参数优化设计 钟小勇,任剑秋(47)
基于机器视觉的航空插头焊杯定位 蔡文龙,赵振*,李文忠(53)
基于NSGA-III的跨声速转子弯掠组合MOO设计 李博文,吴虎(57)
基于动网格的客舱呼吸道病原体扩散规律研究 林家泉,戴仕卿(66)
基于DNN与IMPDE的武器系统效能优化 王国梁,赵滢,杨卓鹏,杨超(71)
基于SEM-SD模型的终端区管制系统OEO 闫少华,于琦,张兆宁(76)

能源领域仿真

- 基于扰动观察的双馈风电场有功功率自动控制 陈丽敏,齐红伟(81)
基于改进人工蜂群的电力检修设备优化调度 李志*,余绍峰,张蔡涓,陈鼎(86)
基于DCNN和SVC的窃电检测 张梦楠,李红娇(92)
基于单步预测LSTM的短期负荷预测模型 李鑫,李海明,马健(98)
微电网中混合储能双层模糊控制优化策略 李洋,陈洁,王小军,段生强(103)
储能型SNOP电压支撑控制策略研究与仿真 陆旭,郭家虎,吴冬晖,纪泽宇(108)
铜街子水电站计算机仿真系统创新研究及应用 王瑜,刘永,熊飞,李航海(113)

交通体系与工具仿真

- 两阶段式物流配送路径优化模型仿真 杜卫华,翁传芳(118)
交通禁令标志自动图像识别方法设计与仿真 高宇鹏,梁世军(123)
车辆状态与参数联合估计研究 姬晓,李刚,樊东升(127)
基于自回归模型的车载雷达抗干扰方法研究 蒋留兵,郑朋,车俐(135)
一种T2T资源分配算法的设计与仿真 吕宏志,刘晓娟,宋振宅,刘文珍(141)
氢燃料电池混合动力能量多参数控制方法仿真 郭晓凯,闫献国,陈峙,孟志宇(146)
配送车与无人机的农村物流配送路径优化仿真 许文鑫,张敏,熊国文(151)
无人集装箱码头数字孪生建模方法研究 杨宇奥,武殿梁,张人元(158)
基于小波域的深度增强车牌图像去雾算法设计 朱熙,汪政阳,陈炳权*(163)

信息仿真

- 基于快速SLIC的人工智能图像超像素分割仿真 陈进强,黄继梅(170)
连续驾驶条件下司机疲劳驾驶图像预警仿真 李巧茹,石宇(175)
基于HOF-CNN和HOG特征的视频动作识别系统 王瀛,徐奔,左方*(179)
基于调和模型的降质图像超分辨率复原算法 王媛芳,王鸿,廖武忠(183)
稳定兴趣点区域的图像检索 谢光艺,郭宝龙*,黄喆(187)
AoI与样本挤压感知的通信调度算法仿真 叶恒舟,郝薇,黄凤怡(192)
短距离无线网络异常信号识别算法 张燕,刘磊(197)
虚拟运动目标人机交互方法设计与仿真 龙年,刘智惠(201)
认知无线电传输阶段频谱感知研究及仿真 温宇昕,殷晓虎,衡敏(206)
基于DeepLab改进网络下的舌图像分割算法 徐武,陈盈君,汤弘毅,杨昊东(210)
一种改进的重复比特辅助极化译码 张开,马秀荣,单云龙,沈园园(214)
基于虚拟视觉的无序图像视点绘制仿真 赵建府,王慧敏(220)
无线多媒体网络的QoS传输控制模型仿真 蒋雪峰,齐瑞红(224)
复杂形状物体的图像识别方法研究 徐自远,蔡妍娜(228)

教学仿真

- 基于区块链的交互实验平台资源远程共享仿真 程岫,刘国富,任常在,于贺伟(233)

仿真应用研究

- 复杂多耦合仿真模型校验工具研究 邹莹,杨凯,刘京涛,张昕(238)
- 基于马氏决策的5G网络切片虚拟资源分配研究 曾坚毅,许济金(242)
- 基于EAST的文本检测算法改进研究 何伟鑫,邓建球,丛林虎,逯程(247)
- 建筑框架结构稳定性测试模型仿真分析 何悠,陈倩(255)
- 基于邓肯-张模型钢管仓粮食贮料侧压力仿真 静行,王晓雨,陈慧芳(259)
- 一种深基坑开挖风险控制方法设计与仿真 刘艳萍,姜岳*,许晓文,张立峰(264)
- 针对特定领域的新词发现方法研究 申兆媛,巢翌,李晓龙,张伟(269)
- 基于BP神经网络的棉花回潮率预测模型研究 王婷婷,张学东(274)
- 基于幂次指数趋近律的船舶电力推进控制研究 谢嘉令,施伟锋,兰莹,卓金宝(279)
- 轻质混凝土承压监测方法设计与仿真 熊黎黎,贾璐(284)
- 水利污染遥感监测方法的设计与仿真研究 张丽军,吕大昭,高永芹,曹志勇(289)
- 一阶直线倒立摆控制器MBD设计方法研究 常广晖,张亚超,苏攀(293)
- 基于BIM技术的被动式建筑敏感因子模拟与分析 孙少楠,吴家伟(298)
- 基于DCS的水泥复合材料成型设备自动控制方法 田冰,谢华龙(304)
- 组合式建筑几何轮廓定标误差识别建模仿真 赵继平,林伟(308)
- 基于改进模拟退火算法的火焰温度场反演计算 王旭,祝海江*,刘兴旺,李小春(313)
- 基于改进GSO-BPNN的变风量空调冷却水控制 杨世忠,逢铄,李善伟(319)
- 基于温升效应影响的直流变换器性能仿真 周克,王霄,邓豪(325)
- 园林植物配置及空间布局规划仿真研究 王玉虎,张楠(331)

仿真方法与算法

- 自适应遗传算法在HybridSLAM中的应用 雷建和,丁磊,孙合胜,陈健(336)
- 基于TF-IDF与用户聚类的推荐算法 林振荣,黄虹霞,舒伟红,刘承启(341)
- 基于对偶分解的数据中心网络流量工程方法 刘奕,李建华,陈玉(346)
- 干扰环境下船舶的定位算法研究 马社祥,李慧宁(351)
- 融合大数据挖掘的用户个性化POI推荐方法 秦鹏,贾洪杰,霍兴瀛,邓朝艳(355)
- 基于暗通道的自适应图像去雾算法 孙希延,陶堃,黄建华*,时慧恩(359)
- 基于改进CUSUM算法的移动恶意软件TD算法 张旭,李鹏(365)
- Dtw算法在无参考图像序列像素重构中的应用 朱兴宇,时庆涛(369)
- 改进傅海鞘群算法增强电力巡检图像的研究 成贵学,郑晓楠(373)
- 基于分类器链的多标签分类算法 李校林,陆佳丽,王韩林(380)

仿真网络化

- 上行链路干扰下双层网络中心数据挖掘方法 冀江瑀,陈秀波(386)
- 基于最高密度点的入侵检测数据过采样方法 江泽涛,钱艺,张少钦(391)
- 基于防火墙技术的网络认证协议密钥交换算法 李之玲,朱德新(399)
- 大数据移动通信网络数据交换隐私隐写加密 唐新梅,覃开贤(403)
- 基于约束优化的Petri网可达性FIJ模型 王慧英,周恺卿,周辉(408)
- 基于K近邻的隐式位置访问隐私保护方法 王勇,王宏志(412)
- 多维异构网络数据智能预加密云推送方法研究 王志刚,王辰阳,李恒武(417)
- 基于Prim的物联网安全数据融合信誉度模型 韦晓敏,彭灿华*(421)
- 基于SPCSE与WKELM的网络入侵检测方法研究 肖耿毅(425)
- 恶意软件攻击行为的时序逻辑建模分析 熊英乔,邱芬(430)

仿真智能化

- 基于维度扩展重排的高维数据降维挖掘技术 邓慧,谭乐婷(434)
- 基于激光扫描的机器人运动目标跟踪技术研究 黄东,陈乐庚(439)
- 基于方向决策RRT算法的移动机器人路径规划 刘想德,何翔鹏,胡勇,胡小林(444)
- 基于深度神经网络的无人机路径决策的研究 周思达,邱爽,唐嘉宁,郭川(449)
- 机械臂与障碍物的双层次碰撞检测算法仿真 高嘉材,李丽宏,原钢(453)

仿真虚拟化

- 基于双目图像的复杂视频场景虚拟重建仿真 袁红,李瑾,黄婧(459)

仿真服务化

- 基于BiLSTM-CRF纪检监察事件命名实体识别 樊昊,陈俊杰,高静,刘晓玲(464)
- 低冗余知识图谱实体关系检索与仿真 钱涵笑,韩斌(469)
- 基于决策树模型的分布式存储数据纠删码修复 沈洪敏,周功建(473)
- 基于系统动力学的无接触配送仿真优化研究 胡钟骏,周芳芳,张豪(478)
- 基于时间序列图谱化的轴承故障诊断方法研究 徐传超,刘月,付经伦(484)
- 基于局部线性模型的传感器故障检测仿真 周洋,罗棋,孙伶俐,罗俊秋(490)
- 房屋建筑图形数据多通道整合方法设计与仿真 高峻峰,汪新军*(496)
- 热环境模拟下大空间建筑室内能耗优化方法 徐茂剑,褚海峰*(501)

CONTENTS

Research on the Construction of Smart Library Simulation Platform System	GUO Xin-hua, CHEN Jian-hua (1)
5G Enabled The Fifth-Generation Command System	WANG Yuan-shuang, ZHENG Zhen-guo, et, al (5)
Modeling of Influence Factors Measured by HPGe spectrometer and Design of simulation	SUN Zhong-tao, SONG Jian, et, al (9)
Research on the Test Platform of Ground Unmanned Equipment System Combined with Virtual and Real	WANG Xin-yu, GUO Qi-sheng (15)
Study on the Transient Collision Dynamics in the Process of Spacecraft Transfer	GUO Jun-bin, YU Chuan-qiang, et, al (21)
A Prediction Aalgorith of Passenger Dynamic Demand for Delayed Flights	JING Yi-zhen, ZHAO Yao-shuai, et, al (26)
Simulation of Multi-Airport Group Flight Frequency Optimization Model under Cost Constraints	WEI Wei, HE Jing (31)
Numerical Simulation Study on Effects of Propeller Slipstream on Aerodynamic Characteristics of Annular Intet	YANG Cheng-feng, DUAN Zhuo-yi, et, al (36)
Anti Collision Guidance Control Method of Low Altitude UAV Based on Homogeneous Transformation	ZHANG Hong-bo, KUANG Yin-hu (42)
PID Parameter Optimization Design of Quadrotor UAV Based on Differential Evolutionary Aalgorith	ZHONG Xiao-yong, REN Jian-qiu (47)
Positioning of Welding Cup of Aviation Plug Based on Machine Vision	CAI Wen-long, ZHAO Zhen *, et, al (53)
Multi-objective Optimization of Sweep and Lean in A Transonic Rotor Based on NSGA-III	LI Bo-wen, WU Hu (57)
Study on Diffusion Law of Respiratory Pathogen in Aircraft Cabin Based on Moving Grid Technique	LIN Jia-quan, DAI Shi-qing (66)
Optimization of Weapon System Effectiveness Based on DNN and IMPDE	WANG Guo-liang, ZHAO Yan, et, al (71)
Operation Efficiency Optimization of Terminal Area Control System Based on SEM-SD Model	YAN Shao-hua, YU Qi, et, al (76)
Automatic control of active power of doubly-fed wind farm based on disturbance observation	CHEN Li-min, QI Hong-wei (81)
Optimal Dispatch of Power Maintenance Equipment Using Improved Artificial Bee Colony	LI Zhi *, YU Shao-feng, et, al (86)
Electricity Theft Detection Based on Deep Convolutional Neural Network and Support Vector Classification	ZHANG Meng-nan, Li Hong-jiao (92)
Short-Term Load Forecasting Model Based on LSTM of Single-Step Forecasting	LI Xin, LI Hai-ming, et, al (98)
Double Layer Fuzzy Control Optimization Strategy for Hybrid Energy Storage in Microgrid	LI Yang, CHEN Jie, WANG Xiao-jun, et, al (103)
Research and Simulation of Voltage Support Strategy for SNOP with Energy Storage	LU Xu, GUO Jia-hu, et, al (108)
Innovation Research and Application of Computer Simulation Systemfor Tongjiezi Hydropower Station	WANG Yu, LIU Yong, et, al (113)
Simulation of Two-Stage Logistics Distribution Path Optimization Model	DU Wei-hua, WENG Chuan-fang (118)
Design and Simulation of Automatic Image Recognition Method for Traffic Ban Signs	GAO Yu-peng, LIANG Shi-jun (123)
Research on Joint Estimation of Vehicle State and Parameters	JI Xiao, LI Gang, et, al (127)
Research on Interference Mitigation Method of Automotive Radar Based on Autoregressive Model	JIANG Liu-bing, ZHENG Peng, et, al (135)
Design and Simulation of a T2T Resource Allocation Aalgorith	LV Hong-zhi, LIU Xiao-juan, et, al (141)
Simulation of Multi-Parameter Energy Control Method for Hydrogen Fuel Cell Hybrid Power	GUO Xiao-kai, YAN Xian-guo, et, al (146)
Optimization Simulation of Rural Logistics Distribution Path Based on Distribution Vehicle and UAV	XU Wen-xin, ZHANG Min, et, al (151)
Research on Digital Twin Modeling Method of Unmanned Container Terminal	YANG Yu-ao, WU Dian-liang, et, al (158)
Design of Defogging Aalgorith for Depth-Enhanced License Plate Image Based on Wavelet Domain	ZHU Xi, WANG Zheng-yang, et, al (163)
Artificial Intelligence Image Superpixel Segmentation Simulation Based on fast SLIC	CHEN Jin-qiang, HUANG Ji-mei (170)
Image Warning Simulation of Driver Fatigue Driving under Continuous Driving Conditions	LI Qiao-ru, SHI Yu (175)
A video Action Recognition System Based on HOF-CNN and HOG Features	WANG Ying, XU Ben, et, al (179)
Super-Resolution Restoration Algorithm of Degraded Image Based on Harmonic Model	WANG Yuan-fang, WANG Hong, et, al (183)
Image Retrieval Based on Stable Interest Point Region	XIE Guang-yi, GUO Bao-long *, et, al (187)
Communication Scheduling Algorithm of AoI and Sample Extrusion Aware	YE Heng-zhou, HAO Wei, et, al (192)
Abnormal Signal Recognition Algorithm of Abnormal Signal in Short-Range Wireless Communication Network	ZHANG Yan, LIU Lei (197)
Design and Simulation of Human-Computer Interaction Method for Virtual Moving Target	LONG Nian, LIU Zhi-hui (201)
Research and Simulation of Spectrum Sensing in Cognitive Radio Transmission Stage	WEN Yu-xin, YIN Xiao-hu, et, al (206)
Improved Tongue Image Segmentation Algorithm Based on Deeplab v2 Network and OSIM Network	XU Wu, CHEN Ying-jun, et, al (210)
An Improved Repetition Assisted Decoding of Polar Codes	ZHANG Kai, MA Xiu-rong, et, al (214)
Simulation of Unordered Image Viewpoint Rendering Based on Virtual Vision	ZHAO Jian-fu, WANG Hui-min (220)
Simulation of QoS transmission control model in Wireless Multimedia Networks	JIANG Xue-feng, QI Rui-hong (224)
Research on Image Recognition Method of Complex Shape Object	XU Zi-yuan, CAI Yan-na (228)
Remote Resource Sharing Simulation of Interactive Experiment Platform Based on Blockchain	CHENG Shen, LIU Guo-fu, et, al (233)
Research on Verification Tool of Complex Multi-Coupling Simulation Model	ZOU Ying, YANG Kai, et, al (238)
Research on Virtual Resource Allocation of 5GNetwork Slice Based on Markov Decision	ZENG Jian-yi, XU Ji-jin (242)
Research on An Improved Text Detection Algorithm Based on EAST	HE Wei-xin, DENG Jian-qiu, et, al (247)
Simulation Analysis of Stability Test Model of Building Frame Structure	HE You, CHEN Qian (255)
Simulation Study on Lateral Pressure of Grain Storage in Steel Silo Based on Duncan Chang Model	JING Hang, WANG Xiao-yv, et, al (259)

Design and Simulation of Risk Control Method for Deep Foundation Pit Excavation	LIU Yan-ping,JIANG Yue* ,et, al (264)
Research on New Word Discovery Methods Facing the Military Field	SHEN Zhao-yuan,CHAO Yi,et, al (269)
Research on Numerical Prediction Model of Cotton Moisture Regain Based on Back-propagation Neural Network	WANG Ting-ting,ZHANG Xue-dong (274)
Research on Sliding Mode Control of Ship Electric Propulsion Based on Power Exponent Reaching Law ...	XIE Jia-ling,SHI Wei-feng,et, al (279)
Design and Simulation of Pressure Monitoring Method for Lightweight Concrete	XIONG Li-li,JIA Lu (284)
Design and Simulation of Remote Sensing Monitoring Method for Water Pollution	ZHANG Li-jun,LV Da-zhao,et, al (289)
Study on MBD Design Method of First-order Linear Inverted Pendulum Controller	CHANG Guang-hui,ZHANG Ya-chao,et, al (293)
Simulation and Analysis of Sensitive Factors of Passive Buildings Based on BIM Technology	SUN Shao-nan,WU Jia-wei (298)
Automatic Control Method of Cement Composite Molding Equipment Based on DCS	TIAN Bing,XIE Hua-long (304)
Modeling and Simulation of Geometric Profile Calibration Error Identification of Combined	ZHAO Ji-ping,LIN Wei (308)
Inversion Calculation of Flame Temperature Field Based on Improved Simulated Annealing Algorithm	WANG Xu,ZHU Hai-jiang,et, al (313)
Optimization Control of Cooling Water System of VAV Air Conditioning Based on Improved GSO-BPNN Algorithm	YANG Shi-zhong,PANG Shuo,et, al (319)
Simulation of DC Converter Performance Based on Temperature Rise Effect	ZHOU Ke,WANG Xiao,et, al (325)
Simulation Study on Garden Plant Configuration and Spatial Layout Planning	WANG Yu-hu,ZHANG Nan (331)
The Application of Adaptive Genetic Algorithm in the HybridSLAM	LEI Jian-he,DING Lei,et, al (336)
Recommendation Algorithm Based on TF-IDF and User Clustering	LIN Zhen-rong,HUANG Hong-xia,et, al (341)
Data Center Network Traffic Engineering Method Based on Duality Decomposition	LIU Yi , LI Jian-hua ,et, al (346)
Research on Ship Positioning Algorithm in Interference Environment	MA She-xiang,LI Hui-ning (351)
User Personalized POI Recommendation Method Integrating Big Data Mining	QIN Peng,JIA Hong-jie,et, al (355)
Adaptive Image Dehazing Algorithm Based on Dark Channel	SUN Xi-yan,TAO Kun,et, al (359)
Mobile Malware Traffic Detection Algorithm of Mobile Malware Based on Improved CUSUM Algorithm	ZHANG Xu,LI Peng (365)
Application of Dtw Algorithm in Pixel Reconstruction of Non-reference Image Sequence	ZHU Xing-yu,SHI Qing-tao (369)
Research on Image Enhancement of Power Patrol Inspection Based on Improved Slap Swarm Algorithm	CHENG Gui-xue, ZHENG Xiao-nan (373)
Multi-Label Classification Algorithm Based on Classifier Chain	LI Xiao-lin,LU Jia-li,et, al (380)
Data Mining Method of Double Layer Network Center Under Uplink Interference	JI Jiang-yu,CHEN Xiu-bo (386)
Intrusion Detection Data Oversampling Method Based on the Highest Density Point	JIANG Ze-tao,QIAN Yi,et, al (391)
Key Exchange Algorithm of Network Authentication Protocol Based on Firewall Technology	LI Zhi-ling,ZHU De-xin (399)
Privacy Steganalysis of Data Exchange in Big Data Mobile Communication Network	TANG Xin-mei,QIN Kai-xian (403)
Petri Net Reachability False Identification Judgment Model Based on Constrained Optimization	WANG Hui-ying,ZHOU Kai-qing,et, al (408)
K-Nearest Neighbor Based Implicit Location Access Privacy Protection Method	WANG Yong,WANG Hong-zhi (412)
Research on Multi-Dimensional Heterogeneous Network Data Intelligent Pre Plus Dense Cloud Push Method	WANG Zhi-gang,WANG Chen-yang,et, al (417)
Credibility Model of Internet of Things Security Data Fusion Based on Prim	WEI Xiao-min,PENG Can-hua* (421)
Research on Network Intrusion Detection Method Based on SPCE and WKELM	XIAO Geng-yi (425)
Temporal Logic Modeling and Analysis of Malware Attack Behavior	XIONG Ying-qiao,QIU Fen (430)
Dimension Reduction Mining Technology of High Dimension Data Based on Dimension Expansion and Rearrangement	DENG Hui,TAN Le-ting (434)
Research on Robot Moving Target Tracking Technology Based on Laser Scanning	HUANG Dong,CHEN Le-geng (439)
Mobile Robot Path Planning Based on Orientation-Information Strategy RRT Algorithm	LIU Xiang-de ,He Xiang-peng,et, al (444)
Research on Path Decision of UAV Based on Deep Neural Network Research	ZHOU Si-da, QIU Shuang, et, al (449)
Simulation of Double Level Collision Detection Algorithm Between Manipulator and Obstacle	GAO Jia-cai,LI Li-hong,et, al (453)
Virtual Reconstruction Simulation of Complex Video Scene Based on Binocular Image	YUAN Hong,LI Jin,et, al (459)
Named Entity Recognition Based on BiLSTM-CRF Discipline Inspection and Supervision Events	FAN Hao,CHEN Jun-jie,et, al (464)
Entity Relation Retrieval and Simulation of Low Redundancy Knowledge Atlas	QIAN Han-xiao,HAN Bin (469)
Research on a New Algorithm of Erasure Correcting Code for Distributed Storage Data Based on Decision Tree Model	SHEN Hong-min,ZHOU Gong-jian (473)
Study on Simulation and Contactless Delivery Optimization Contactless Delivery Based on System Dynamics	HU Zhong-jun,ZHOU Fang-fang,et, al (478)
Research on Fault Diagnosis Method of Bearing Based on Time Series Mapping	XU Chuan-chao,LIU Yue,et, al (484)
Simulation of Sensor Fault Detection Based on Local Linear Model	ZHOU Yang,LUO Qi,et, al (490)
Design and Simulation of Multi-Channel Integration Method for Building Graphic Data	GAO Jun-feng,WANG Xin-jun* (496)
Optimization Method of Indoor Energy Consumption of Large Space Buildings Based on Thermal Environment Simulation	XU Mao-jian,CHU Hai-feng* (501)

迎接党的二十大

胜利召开！

