

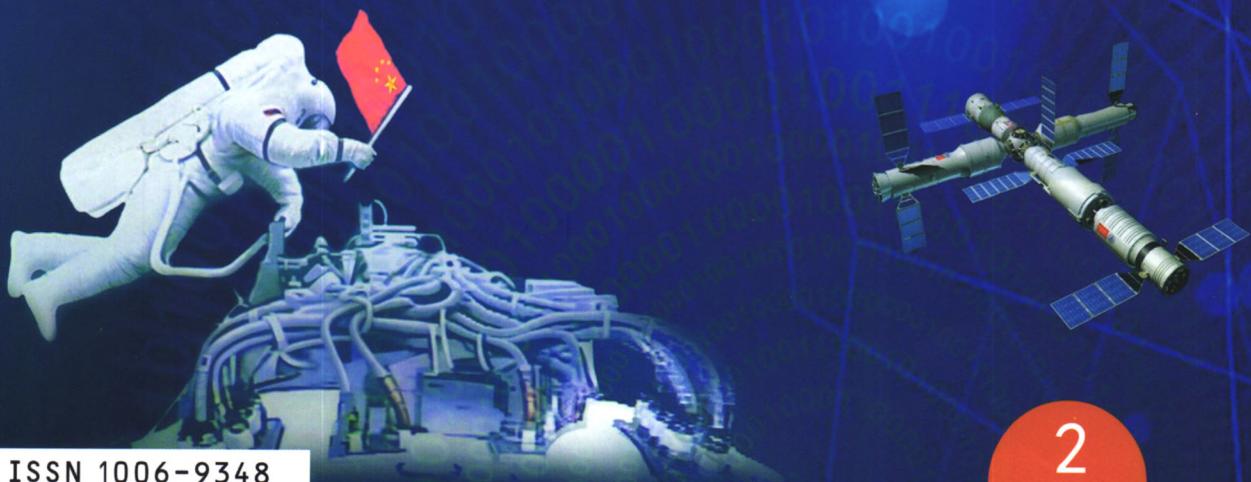


中文核心期刊
中国计算机用户协会会刊

ISSN 1006-9348

计算机仿真

Computer Simulation



ISSN 1006-9348



2 >

9 771006 934033

万方数据

2
2017

目 次

军事领域仿真

| | |
|--------------------------|-----------------------|
| 双模聚能战斗部成型装药的结构优化 | 焦志刚,杜 宁,寇东伟(1) |
| 基于CS和MPLDS的作战任务与平台资源匹配方法 | 金义冬,杨辉华,段鹏飞(5) |
| 子母弹中多体偏心差速俘能装置效能预测仿真 | 李 轼,钱建平,柏锴霖,胥加林(10) |
| 捷联惯导系统初始对准精度评估算法 | 亓洪标,吴 苗,郭士萃(16) |
| 链式火炮自动机结构改进及其动力学仿真研究 | 袁志华,孙运阳,胡 明,李回滨(20) |

航空航天领域仿真

| | |
|----------------------|------------------------|
| 基于终端区的多基一次监视雷达布局研究 | 程 擎,代言君(25) |
| 基于滑移率补偿的月球车牵引控制与仿真分析 | 高 鹏,许红霞(30) |
| 基于手枪的旋翼枪架设计与仿真 | 胡 明,袁志华,李回滨(35) |
| 空射诱饵弹干扰资源动态优化分配方法 | 胡阳光,肖明清,孔庆春,郭学玲(39) |
| 载人空间飞行器自抗扰主动隔振优化控制 | 贾天志,陈绍青,窦晓华,王 永(43) |
| 航空战时弹药保障供应能力优化预测仿真 | 康宗宇,陈义军,陈 伟(49) |
| 反舰导弹目标跟踪滤波研究 | 雷振达(53) |
| 空中飞行导航系统干扰功率优化分配仿真 | 李光明,田孝华,鲁凯彬,孙 博(56) |
| 航姿参考系统姿态算法性能优化仿真研究 | 李 翔,李 明(60) |
| 地理位置对卫星动中通链路影响特性研究 | 刘 杉,贾维敏,胡朝军,吴诗琪(65) |
| 地空导弹飞行控制系统的微小故障诊断研究 | 刘永进,冯 刚,张 琳,汪文峰(70) |
| 战术训练空域规划优化仿真研究 | 马嘉呈,姚登凯,赵顾颤(75) |
| 航天器平台有效载荷实时数据流分析 | 司 锋,林宝军,张善从(80) |
| 无人机跟踪场景下的粒子滤波算法的改进 | 孙海洋,张 利(84) |
| 航天飞行器座舱可信度评估仿真研究 | 王珺珺,徐晓静(88) |
| 面向控制的高超声速飞行器一体化建模与分析 | 肖 进,完颜振海,杨 亮,杜可君(92) |
| 关于航天发射场空调加热器温度优化控制 | 杨永利,丛 华,江鹏程,冯辅周(97) |
| 大型民用运输机诱导气动性能优化研究 | 叶 露(101) |
| 基于神经网络的非定常气动力建模研究 | 张瑞民,张石玉,赵俊波(106) |
| 巡视器月面停泊就位探测路径规划研究 | 张 涛,许红霞(110) |
| 抗风能力无人机飞行稳定性控制模型仿真研究 | 张志利(115) |
| 飞机高机动飞行双机通信性能优化研究 | 何召阳,王谦皓,祝寄徐,杨啸天(119) |
| 导弹尾部燃气冲击射流的流场特性仿真研究 | 朱孙科,罗天洪,徐向阳(123) |

能源领域仿真

| | |
|------------------------|------------------------|
| 交流电网逆变电源频率恒定优化控制 | 陈 猛,王 炜,代毅伟(128) |
| 关于光伏发电快速电池模拟器设计 | 程邦宇,滕 菁,周华安(134) |
| 含风电场电力系统备用容量优化配置研究 | 付志强,康润生(139) |
| 核电站分布式系统虚拟过程控制平台设计研究 | 高汉军,曲 鸣,李 青,景应刚(144) |
| 水轮机水动力效率性能优化方法研究 | 何 杨,刘又文(150) |
| 独立风光发电混合系统容量配置优化研究 | 胡林静,赵 洋,于士航,王悦臻(156) |
| 输电系统三相逆变电源跟踪优化控制研究 | 兰利亚,王 炜(162) |
| 数字技术下小功率电源优化设计仿真研究 | 秦效勇,尚振东(166) |
| 火电机组锅炉膛负压优化策略研究 | 孙灵芳,宫远洋(170) |
| 配电网单相接地故障选线检测仿真 | 张国军,杜 宇,白艳红(175) |
| 电网传输电力逆变器稳定性滑模控制研究 | 郑恩让,赵兴旺(180) |
| 三相电压 PWM 整流器闭环系统控制策略研究 | 刘 旺,张义兵,兰志勇(185) |

交通体系与工具仿真

| | |
|---------------------|--------------------|
| 交通堵塞车流调度单点信号嵌入式控制仿真 | 李 敏(189) |
| 面向单/多列车节能优化建模仿真研究 | 刘 慧,张振宇,吴晓红(193) |
| 城市交通车流拥堵疏散路径优化识别研究 | 张 尧(200) |

信息仿真

| | |
|----------------------|----------------|
| 提升移动通信质量对宽带传输率优化设计 | 付璀璨(204) |
| 光纤通信网络中信息传输可靠性优化设计仿真 | 郝 潢,王晓峰(208) |
| 移动通信中攻击信号优化检测仿真研究 | 米 捷,李 可(212) |
| 混响环境下语音信号优化识别仿真研究 | 石从红(217) |

| | |
|------------------------|------------------|
| 无线网移动通信数据传输性能优化设计 | 朱 可(221) |
| 一种用于星地高速通信的 Raptor 码设计 | 包丽红,张 伟,沈 宙(225) |
| 卫星通信网络信道传输性能优化策略研究 | 冯建新,张 尧,潘成胜(230) |

教学仿真

| | |
|----------------------|----------|
| 网络教学资源优化分配仿真研究 | 胡垂立(234) |
| 移动网络中教学资源均衡分配优化仿真研究 | 李 川(238) |
| 不完全语义认知过程中信息特征正确识别仿真 | 秦 恺(242) |

社会科学领域仿真

| | |
|------------------|--------------|
| 小微企业投资安全风险评估建模仿真 | 李 文,梅 强(246) |
|------------------|--------------|

仿真应用研究

| | |
|-------------------------|----------------------|
| 基于 AMESim 的伸缩缸调速回路建模与仿真 | 邓 飚,孙静波,朱 槿(250) |
| 异步电机直接转矩控制定子电阻辨识研究 | 刘登基,刘国荣(255) |
| 目标图像数据选择性自适应滤波方法仿真 | 刘 伟,徐成鸿,陈张言,程 启(260) |
| 基于土壤滞回特性的液压振动锤自同步研究 | 罗春雷,陈珍颖(264) |
| 排球运动员手臂运动轨迹优化识别仿真研究 | 王世伟,陈华伟(270) |
| 跳跃运动中男性胫骨应力损伤部位识别仿真 | 向云平(274) |
| 反向扩孔气动冲击器活塞结构优化设计研究 | 徐绍军,赵宏强,徐海良,郑 义(278) |
| 语音信号准确性识别仿真研究 | 杨 璞(285) |
| 英语语音合理性优化识别建模仿真研究 | 张 瑞(289) |
| 轴向振动对格莱圈密封泄漏量的影响 | 周剑奇,杨忠炯,周立强(293) |
| 自然环境中偏二甲肼蒸发扩散规律预测仿真 | 樊东磊,王 华,崔村燕,王亚冲(299) |

仿真方法与算法

| | |
|---------------------|------------------|
| 旋转移动图像颜色相似度特征提取方法仿真 | 鲁晓波,王立中,闫 凤(304) |
|---------------------|------------------|

仿真网络化

| | |
|---------------------|------------------|
| 基于无弦圈的覆盖漏洞边界检测算法研究 | 底兴芳,马 超,关清尹(309) |
| 传感网络中入侵数据查询方法改进研究仿真 | 顾成喜,顾才东,龚 伟(314) |
| 物联网通信中目标跟踪节点均衡调度仿真 | 王大亮(318) |
| 移动互联网中特征数据准确提取仿真研究 | 王素苹(322) |
| 无线网络传输数据节点入侵优化检测仿真 | 吴志芳,刘 昕(326) |
| 公共网络用户隐私保护位置优化识别仿真 | 张红斌(330) |
| 非线性电子网络传输功率稳定性控制仿真 | 张苑农,董 静(334) |

仿真智能化

| | |
|----------------------|----------------------|
| 物联网数据库中农业温湿度数据检测仿真研究 | 崔楠楠,刘 斌,李士军*(338) |
| 人体语音特征提取身份优化验证仿真研究 | 乔玲玲,郭秀婷(342) |
| 大型公寓建设项目风险评估模型仿真研究 | 吕虹云(346) |
| 数字图书馆书籍资源质量评价仿真 | 钱静雅,肖 霞,刘桂英(350) |
| 户外无刷直流电机智能调速优化研究 | 徐陶祎,钟 诚,周 鼎(354) |
| 工业生产中产品目标监测界面可用性评估仿真 | 余森林,傅 娟(358) |
| 高炉炼铁工序入炉焦比预测的研究 | 岳有军,董 安,赵 辉,王红君(362) |
| 网络数据特征选择的优化方法研究与仿真 | 张 浩(367) |
| 关于清扫机器人自动异物检测研究 | 胡 冲,李 兴(371) |
| 电梯群控系统的节能调度优化仿真 | 郎 曼,李国勇,徐晨晨(375) |
| 基于超图直推非负矩阵分解的图像标注法研究 | 李冰锋,唐延东,韩 志(380) |
| 基于 RF 梯级分域的室内定位仿真 | 吴霁桂,陈向前(385) |
| 多维彩色图像特征快速抽取方法仿真研究 | 贺 炜(389) |
| 密集障碍环境下机器人路径智能搜索方法仿真 | 赵 冰,许 爽,黄继海(393) |
| 雾天环境下低维图像模糊区域快速增强仿真 | 刘建娟(397) |

仿真服务化

| | |
|----------------------|----------------------|
| 轧制设备生产带钢缺陷图像检测仿真研究 | 侯景忠,夏克文,杨 帆(401) |
| 网络存储隐蔽信道检测的改进与优化仿真 | 梁 竣(406) |
| 关于无线网络移动通信信息定位优化研究 | 林国勇(410) |
| 非结构化网络中有价值信息数据挖掘研究 | 林 媛(414) |
| WEB 数据库中低维子空间偏移定位仿真 | 刘 芳,彭智勇,高 兴(418) |
| 三维视觉图像跟踪运动员对受伤目标监测仿真 | 马 玲,周 斌(422) |
| 基于本体的电商服务均衡预测仿真 | 吴 钟,杨 帆,代四广(426) |
| 医疗投资回报合理性预测建模研究 | 张永东(430) |
| 发动机连杆结构损伤疲劳寿命预测研究 | 陈永兴,叶南海,马 健,伍 容(434) |
| 基于状态转移法的正弦基神经网络滤波器设计 | 李 喆(441) |
| 可变光照条件下多维图像灰度校正方法仿真 | 罗 孟(445) |

CONTENTS

| | |
|---|--|
| Optimization of Shaped Charge for the Dual – mode Warhead | JIAO Zhi – gang,Du Ning ,et, al (1) |
| Approach to Operation Task and Platform Resource Matching based on CS and MPLDS | (5) |
| Effectiveness Prediction and Simulation of the Eccentric Differential Energy Harvesting Device Characterized by Multi – body for Cluster Bomb | LI Ke,QIAN Jian – ping,BAI Kai – ling ,et, al (10) |
| Evaluation of SINS Initial Alignment Based on Optimal Linear Smoothing Technique | QI Hong – biao,WU Miao ,et, al (16) |
| The Structure Improvement and Dynamics Simulation Research on the Chain Gun Automatic Mechanism Structure | YUAN Zhi – hua,SUN Yun – yang ,et, al (20) |
| Research on Multi – Static Primary Surveillance Radar Distribution in Civil Aviation Terminal Area | CHENG Qing,DAI Yan – jun (25) |
| Rover's Traction Control and Simulation Analysis Based on Slip Ratio Compensation | GAO Peng,XU Hong – xia (30) |
| Rotor tripod mount scheme design and simulation based on pistol | HU Ming,YUAN Zhi – hua ,et, al (35) |
| A method of optimizing allocation the jamming resources of miniature air – launched decoy | HU Yang – guang,XIAO Ming – qing ,et, al (39) |
| Active Vibration Isolation optimal Control for Manned Spacecraft based on Active Disturbance Rejection Control | JIA Tian – zhi,CHEN Shao – qing ,et, al (43) |
| Simulation of Aviation Ammunition Support Supply Capability Optimization | KANG Zong – yu,CHEN Yi – jun ,et, al (49) |
| Research of the Anti – Missile Target Tracking Filter | LEI Zhen – da (53) |
| The Simulation of Jamming Power Optimal Allocation for Air Navigation System | LI Guang – ming, TIAN Xiao – hua ,et, al (56) |
| Simulation Research on Performance Optimization of Attitude Algorithm for Attitude and Heading Reference System | LI Xiang,LI Ming (60) |
| Research on Location Variety of the Impact of SOTM Link | LIU Shan,JIA Wei – min ,et, al (65) |
| Research on Incipient Fault Detection of Guided Missiles Flight Control System | LIU Yong – jin,FENG Gang ,et, al (70) |
| Tactical Training Simulation Research on Airspace Planning Optimization | MA Jia – cheng,YAO Deng – kai ,et, al (75) |
| Real – Time Data Stream Analysis of Payload in Aircraft Platform | SI Feng ,LIN Bao – jun ,et, al (80) |
| The Improvement of Particle Filter Algorithm under UAV Tracking Scene | SUN Hai – yang,ZHANG Li (84) |
| Shuttle cockpit credibility evaluation simulation research | WAN GJun – jun,XI Xiao – jing (88) |
| Control – Oriented Integrated Modeling and Analysis of Hypersonic Vehicle | XIAO Jin,WANYAN Zhen – hai ,et, al (92) |
| Research on the Optimization Control of Temperature for Heater of Air Handling Unit in Spacecraft Launching Site | YANG Yong – li,CONG Hua ,et, al (97) |
| The Research of Optimization Induced Aerodynamic Performance for Large Subsonic Civil Transport Aircraft | YE Lu (101) |
| The Research of Neural Network in Modeling of Unsteady Aerodynamics | ZHANG Rui – min,ZHANG Shi – yu ,et, al (106) |
| Path Planning for Lunar Rover Parking in Place to Probe | ZHANG Tao,XU Hong – xia (110) |
| High Wind Power Stability of UAV Flight Control Simulation Model | ZHANG Zhi – li (115) |
| Research on communication performance optimization between two aircrafts with high maneuverability | HE Zhao – yang,WANG Qian – zhe ,et, al (119) |
| Simulation Study on Flow – field Characteristics of Gas Impinging Jet Formed by Missile Afterbody | ZHU Sun – ke,LUO Tian – hong ,et, al (123) |
| The optimization of constant frequency inverter control for AC grid | CHEN Meng,WANG Wei ,et, al (128) |
| The Design of Fast Battery Simulator for Photovoltaic Power Generation | CHENG Bang – yu,TENG Jing ,et, al (134) |
| Research on the Optimal Allocation of Reserve Capacity of the Power System Containing Wind Farm | FU Zhi – qiang,KANG Run – sheng (139) |
| Research and Design on Virtual DCS Process Control Platform in Nuclear Power Plant | GAO Han – jun,QU Ming ,et, al (144) |
| Research on the optimization method of hydrodynamic efficiency performance of tidal turbine | HE Yang,LIU You – wen (150) |
| Capacity Allocation Optimization Study of Stand – alone Wind – PV Hybrid Power System | HU Lin – jing,ZHAO Yang ,et, al (156) |
| Transmission System Three – Phase Inverter Power Supply Tracking Optimization Control Research | LAN Li – ya,WANG Wei (162) |
| Simulation Study on Optimal Design of Low Power Supply in Digital Technology | QIN Xiao – yong,SHANG Zhen – dong (166) |
| Research on Optimization Strategy of Boiler Combustion Chamber Draft of Thermal Power Unit | SUN Ling – fang,GONG Yuan – yang (170) |
| Fault line detection simulation single – phase to ground fault in distribution network | ZHANG Guo – jun,DU Yu ,et, al (175) |
| Research on Stable Sliding Mode Control of Electricity Grid Transmission Power Inverter | ZHENG En – rang,ZHAO Xing – wang (180) |
| Research on Control Strategy of Closed Loop System of Three Phase Voltage PWM Rectifier | LIU Wang,ZHANG Yi – bing ,et, al (185) |
| Traffic Jam Traffic Control Single Point Signal Embedded Control Simulation | LI Min (189) |
| Simulation and Research of Optimization Modeling of Single/multi – train Energy – saving | LIU Hui,ZHANG Zhen – yu ,et, al (193) |
| Study on Optimization of Urban Traffic Congestion Evacuation Route | ZHANG Yao (200) |
| Improving the Quality of Mobile Communication for Broadband Transmission Rate Optimization Design | FU Cui – can (204) |
| Reliability Optimization Design and Simulation of Information Transmission in Optical Fiber Communication Network | HAO Xiao,WANG Xiao – feng (208) |

| | |
|---|--|
| Simulation Study of Attacks Signal Optimization Detection in Mobile Communication | MI Jie, LI Ke (212) |
| Simulation of Speech Signal Optimization in Reverberation Environment | SHI Cong - hong (217) |
| Wireless Mobile Communication Data Transmission Performance Optimization Design | ZHU Ke (221) |
| Design of Raptor Code for Space - to - Ground High Speed Communication | BAO Li - hong, ZHANG Wei, et, al (225) |
| Performance Optimization Strategy of Channel Transmission in Satellite Communication | FENG Jian - xin, ZHANG Yao, et, al (230) |
| Simulation Research of Network Teaching Resources Optimization Allocation | HU Chui - li (234) |
| Research on Optimization and Simulation of Teaching Resources Equilibrium Assignment in Mobile Network | LI Chuan (238) |
| Simulation of Correct Identification of Information Feature in the Process Of Incomplete Semantic Cognition | QIN Kai (242) |
| Small and Micro Enterprise Investment Security Risk Assessment Modeling and Simulation | LI Wen, MEI Qiang (246) |
| Model and Simulation Based on AMEsim for Telescope Cylinder Speed Control Circuit | DENG Biao, SUN Jing - bo, et, al (250) |
| Research on Stator Resistance Identification of Induction Motor of Direct Torque Control | LIU Deng - ji, LIU Guo - rong (255) |
| Simulation of Adaptive Filtering Method for Target Image Data | LIU Wei, XU Cheng - hong, et, al (260) |
| Research on Self Synchronization of Hydraulic Vibratory Hammer Based on Hysteretic Property of Soil | LUO Chun - lei, CHEN Zhen - ying (264) |
| Volleyball Players Arm Trajectory Simulation Research on Optimization of Recognition | WANG Shi - wei , CHEN Hua - wei (270) |
| Identification and Simulation of Stress Injury of Male Tibia in Jumping | XIANG Yun - ping (274) |
| The Optimization Design Study of the Piston Structure of the Reverse Counterboring Pneumatic Impactor | XU Shao - jun, ZHAO Hong - qiang, et, al (278) |
| Speech Signal Accuracy Recognition Simulation Research | YANG Zhen (285) |
| Modeling and Simulation of English Speech Rationality Optimization | ZHANG Rui (289) |
| The Effect of Axial Vibration on Glyd - Ring Seal Leakage | ZHOU Jian - qi, YANG Zhong - jiong, et, al (293) |
| Forecast Simulationof Evaporation and Diffusion of Unsym - Dimethyl Hydrazine in Natural Environment | FAN Dong - lei, WANG Hua, et, al (299) |
| Simulation of Color Similarity Feature Extraction Method for Rotating Moving Images | LU Xiao - bo, WANG Li - Zhong, et, al (304) |
| Research on Chordless Cycle based Coverage Hole Detection Algorithm in Sensor Networks | DI Xing - fang, MA Chao, et, al (309) |
| In sensor network intrusion data query method to improve simulation research | GU Cheng - xi, GU Cai - dong, et, al (314) |
| Simulation of Target Tracking Node Equilibrium Scheduling in Internet of Things Communication | WANG Da - liang (318) |
| The Simulation Research on the Accurate Extraction of the Feature Data in Mobile Internet | WANG Su - ping (322) |
| Wireless Network Transmission Data Node Intrusion Detection Simulation | WU Zhi - fang, LIU Xin (326) |
| Public Network User Privacy Protection Location Optimization Identification Simulation | ZHANG Hong - bin (330) |
| The Nonlinear Electronic Network Distributed Power Automatic Control Method Simulation | ZHANG Yuan - nong, DONG Jing (334) |
| Iot Test Simulation Research Agriculture Temperature and Humidity Data in the Database | CUI Nan - nan, LIU Bin, et, al (338) |
| Simulation Study on the Identification of Human Voice Sign | QIAO Ling - ling, GUO Xiu - ting (342) |
| Model Simulation of Large Apartment Construction Project Risk Assessment | LV Hong - yun (346) |
| Digital Library Book Resource Quality Evaluation Simulation | QIAN Jing - ya, XIAO Xia, et, al (350) |
| Optimization of Intelligent Speed Control of Brushless DC Motor | XU Tao - yi, ZHONG Cheng, et, al (354) |
| Simulation of Product Target Monitoring Interface Usability Evaluation in Industrial Production | YU Sen - lin, FU Jing (358) |
| Prediction of Coke Ratio in Iron and Steel Enterprises | YUE You - jun, DONG An, et, al (362) |
| Network Data Feature Selection Research and Simulation Optimization Method | ZHANG Hao (367) |
| Research on the Cleaning Robot Automatic Foreign Object Debris Inspection | HU Chong, LI Xing (371) |
| Elevator Group Control System for Energy Scheduling Optimization Simulation | LANG Man, LI Guo - yong, et, al (375) |
| The Research of Image Annotation based on Hypergraph Transduction Non - negative Matrix Factorization | LI Bing - feng, TANG Yan - dong, et, al (380) |
| A RF - based indoor positionmethod in cascade multi - zone | WU Ji - gui, CHEN Xiang - qian (385) |
| Multidimensional Color Image Features Rapid Extraction Method Simulation | HE Wei (389) |
| Intensive Obstacle Environment Simulation Robot Path Intelligent Search Method | ZHAO Bing, XU Shuang, et, al (393) |
| Environment and Low Dimensional Image Blurring Fast Contrast Enhancement Simulation | LIU Jian - juan (397) |
| Simulation Research on Defect Image Detection of Strip Steel in Rolling Equipment Production | HOU Jing - zhong, XIA Ke - wen, et, al (401) |
| The Improvement and Optimization of the Network Storage Covert Channel Test Simulation | LIANG Jun (406) |
| Research on Location Optimization of Mobile Communication in Wireless Network | LIN Guo - yong (410) |
| Research on Data Mining of Valuable Information in Unstructured Network | LIN Yuan (414) |
| Low Dimensional Subspace WEB Database Migration Simulation Positioning | LIU Fang , PENG Zhi - yong ,et, al (418) |
| Simulation of 3D Visual Image Tracking for Injured Target Monitoring | MA Ling, ZHOU Bin (422) |
| Electric Company Service Equilibrium Prediction Simulation Based on Ontology | WU Zhong, YANG Fan, et, al (426) |
| Medical Investment Return Rationality Predictive Modeling Research | ZHANG Yong - dong (430) |
| The fatigue life prediction research of the engine connecting rod structure | CHEN Yong - xing, YE Nan - hai, et, al (434) |
| Design on the Filter Based on the Sine Basis Function Neural Networks Optimized by State Transition Algorithm | LI Zhe (441) |
| Simulation of Multi - Dimensional Image Grayscale Correction Method under Variable Illumination | LUO Meng (445) |

计算机仿真

COMPUTER SIMULATION

| JANUARY | | | | | | |
|---------|----|----|----|----|----|----|
| M | T | W | T | F | S | S |
| 1 | | | | | | |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 | | | | | |

| FEBRUARY | | | | | | |
|----------|----|----|----|----|----|----|
| M | T | W | T | F | S | S |
| 1 | 2 | 3 | 4 | 5 | | |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | | | | | |

| MARCH | | | | | | |
|-------|----|----|----|----|----|----|
| M | T | W | T | F | S | S |
| 1 | 2 | 3 | 4 | 5 | | |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | 31 | | |

| APRIL | | | | | | |
|-------|----|----|----|----|----|----|
| M | T | W | T | F | S | S |
| 1 | 2 | | | | | |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |

| MAY | | | | | | |
|-----|----|----|----|----|----|----|
| M | T | W | T | F | S | S |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 8 | 9 | 10 | 11 | 12 | 13 | 14 |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 |
| 22 | 23 | 24 | 25 | 26 | 27 | 28 |
| 29 | 30 | 31 | | | | |

| JUNE | | | | | | |
|------|----|----|----|----|----|----|
| M | T | W | T | F | S | S |
| 1 | 2 | 3 | 4 | | | |
| 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| 12 | 13 | 14 | 15 | 16 | 17 | 18 |
| 19 | 20 | 21 | 22 | 23 | 24 | 25 |
| 26 | 27 | 28 | 29 | 30 | | |

| JULY | | | | | | |
|------|----|----|----|----|----|----|
| M | T | W | T | F | S | S |
| 1 | 2 | | | | | |
| 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| 10 | 11 | 12 | 13 | 14 | 15 | 16 |
| 17 | 18 | 19 | 20 | 21 | 22 | 23 |
| 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| 31 | | | | | | |

| AUGUST | | | | | | |
|--------|----|----|----|----|----|----|
| M | T | W | T | F | S | S |
| 1 | 2 | 3 | 4 | 5 | 6 | |
| 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 14 | 15 | 16 | 17 | 18 | 19 | 20 |
| 21 | 22 | 23 | 24 | 25 | 26 | 27 |
| 28 | 29 | 30 | 31 | | | |

| SEPTEMBER | | | | | | |
|-----------|----|----|----|----|----|----|
| M | T | W | T | F | S | S |
| 1 | 2 | 3 | | | | |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | |

| OCTOBER | | | | | | |
|---------|----|----|----|----|----|----|
| M | T | W | T | F | S | S |
| 1 | | | | | | |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | | | | | | |

| NOVEMBER | | | | | | |
|----------|----|----|----|----|----|----|
| M | T | W | T | F | S | S |
| 1 | 2 | 3 | 4 | 5 | | |
| 6 | 7 | 8 | 9 | 10 | 11 | 12 |
| 13 | 14 | 15 | 16 | 17 | 18 | 19 |
| 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| 27 | 28 | 29 | 30 | | | |

| DECEMBER | | | | | | |
|----------|----|----|----|----|----|----|
| M | T | W | T | F | S | S |
| 1 | 2 | 3 | | | | |
| 4 | 5 | 6 | 7 | 8 | 9 | 10 |
| 11 | 12 | 13 | 14 | 15 | 16 | 17 |
| 18 | 19 | 20 | 21 | 22 | 23 | 24 |
| 25 | 26 | 27 | 28 | 29 | 30 | 31 |

2017 CALENDAR

联系电话: 010-59475138

地址: 北京市阜成路14号

邮政编码: 100048

网址: www.jsjfz.com

官网投稿: compusimu.gnway.cc