



中国科技核心期刊

ISSN 1672-9870

CN 22-1364/TH

长春理工大学学报

JOURNAL OF CHANGCHUN UNIVERSITY OF
SCIENCE AND TECHNOLOGY

自然科学版

NATURAL SCIENCE EDITION



2018 3

第41卷 第3期

目 次

- 基于激光距离选通技术的水下湍流检测方法研究 毕莹,徐熙平(1)
压痕测试仪器的研制与试验分析 付海双,赵宏伟,王平,徐迪孟,史文欣(5)
高频像旋光学目标模拟装置结构设计 杨雪,何煦,张晓辉,李成浩(10)
基于PST的杂散光测试系统研究 吴琪,徐熙平,徐亮,陈君杰(16)
基于椭圆形Monge–Ampère方程的杂散光检测系统光源特性的研究 张璐璐,赵崎策,徐熙平(22)
大视场光学显微技术的研究 崔新旭(26)
星载光学遥感器调焦机构设计与有限元分析 郭冠群,颜昌翔,田海英(30)
一种多光轴一致性的检测方法 张磊,田钰麒,赵玄(34)
电火花–激光复合加工减摩钛合金表面试验 许金凯,李雪峰,廉中旭,王旭(38)
液浮陀螺加速度计浮油模型的阻尼特性研究 刘珏,高艺,李军,李亮,牛文韬(42)
多齿槽装配式柱连接节点有限元分析 张德发,干洪(46)
逆向工程中自由曲面快速优化方法研究 邢悦,李丽娟(50)
新型天线扫描架的设计 俞茂超,石永安,梁永红(55)
介孔氮掺杂碳材料应用于氧还原催化剂 周贺,何兴权(60)
掺Yb³⁺铋镓酸盐玻璃光纤芯材料的性能研究 杨杨,金丹旸,李丹阳,杜小虎,周德春(64)
有机氯–卤代胺抗菌剂 张新航,耿志刚,常建国,邵晶,陈兆彬(68)
硒化银量子点的制备及生物应用 王珊珊,王玥,李金华(73)
绿色LED光环境对大脑集中力影响的研究 彭金歌,郭滨,白雪梅,张晨洁(80)
基于行人出行习惯的元胞自动机混合交通流的研究 尹伟石,韩涛,周旻,张绪财,关先钊(85)
一种基于双向鉴别信息的粒子滤波跟踪方法 刘晓华,付秀华,田野,黄盛锋,舒伟平(90)
一种基于深度学习的禁飞区无人机目标识别方法 虞晓霞,刘智,耿振野,陈思锐(95)
基于自适应迭代面光源采样的物理正确柔和阴影绘制算法 周文言,陈纯毅(102)
基于超分辨率重建的车牌图像增强算法 山显响,刘云清(106)
基于自适应双边滤波的太赫兹图像去噪算法 郭俊文,宋贵才,李兴广(111)
基于高斯多峰拟合与直方图规定化的红外图像增强 闫娜,崔灿,王晓曼(115)
具有隐私保护的分布式共轭对偶梯度算法 吕净阁,李德权(120)
一种基于LEACH的能量高效分簇路由协议 段圆圆,陈桂芬(126)
改进加权轮询负载均衡算法研究 韩朋花,叶青,姜晓明,陈占芳(131)
基于SURF和Camshift的目标跟踪算法研究 李建建,王春阳(135)
粗大误差判定准则在靶场试验数据预处理中的应用 刘艳,于露(139)

CONTENTS

- Research on Underwater Turbulence Detection Based on Time-of-flight BI Ying,XU Xiping(1)
- Design and Experimental of Indentation Testing Device
..... FU Haishuang,ZHAO Hongwei,WANG Ping,XU Dimeng,SHI Wenxin(5)
- Design of Optical Target Simulation Device Forhigh Frequency and Image Rotation
..... YANG Xue,HE Xu,ZHANG Xiaohui,LI Chenghao(10)
- Research on Stray Light Measurement System Based on PST WU Qi,XU Xiping,XU Liang,CHEN Junjie(16)
- Research on Stray Light Test System on Light Source
Based on the Oval Monge—Ampére Equation ZHANG Lulu,ZHAO Qice,XU Xiping(22)
- Research on Large Field of View Optical Microscope CUI Xinxu(26)
- Design and Finite Element Analysis of Focusing Mechanism for
Space Remote Sensor GUO Guanqun,YAN Changxiang, TIAN Haiying(30)
- Method For Detecting Coherence of Multiple Optical Axis ZHAMG Lei, TIAN Yuqi,ZHAO Xuan(34)
- Experiment of Low Friction Surface Prepared by EDM—laser Compound Processing
on Titanium Alloy XU Jinkai,LI Xuefeng,LIAN Zhongxu,WANG Xu(38)
- Research on Damping Coefficient about Suspended Oil Model of PIGA
..... LIU Jue,GAO Yi,LI Jun,LI Liang,NIU Wentao(42)
- Finite Element Analysis of Multi — Tooth Groove Fabricated
Column Connection Joint ZHANG Defa,GAN Hong(46)
- Research on the Freeform Surfaces Fast Optimization in Reverse Engineering XING Yue,LI Lijuan(50)
- Design of a New Antenna Scanning Shelf YU Maochao,SHI Yongan,LIANG Yonghong(55)
- A Mesoporous N/C Catalyst for Oxygen Reduction Reaction ZHOU He,HE Xingquan(60)
- Study on Properties of Yb^{3+} Doped Bismuth Gallium Glass Fiber Core Materials
..... YANG Yang,JIN Danyang,LI Danyang,DU Xiaohu,ZHOU Dechun(64)

Organic N-halamine Antimicrobial Agents

..... ZHANG Xinhang, GENG Zhigang, CHANG Jianguo, SHAO Jing, CHEN Zhaobin(68)

Preparation and Biological Application of Silver Selenide Quantum Dots ... WANG Shanshan, WANG Yue, LI Jinhua(73)

Study on The Influence of Green LED Light Environment on Brain Concentration

..... PENG Jing, GUO Bin, BAI Xuemei, ZHANG Chenjie(80)

Study on Cellular Automata Model of Pedestrians–vehicle Conflict Based on

Pedestrians’ Travel Habits YIN Weishi, HAN Tao, ZHOU Min, ZHANG Xucai, GUAN Xianzhao(85)

A Particle Filter Tracking Method Based on Bidirectional Discrimination Information

..... LIU Xiaohua, FU Xiuhua, TIAN Ye, Huang Chengfeng, SHU Weiping(90)

A UAV Target Recognition Method for No Flying Zone

Based on Deep Learning YU Xiaoxia, LIU Zhi, GENG Zhenye, CHEN Sirui(95)

Rendering Algorithm of Physically Correct Soft Shadows

Based on Adaptive Iterative Area Light Source Sampling ZHOU Wenyan, CHEN Chunyi(102)

Application of Super – resolution Reconstruction Technology

in License Plate Image Enhancement SHAN Xianxiang, LIU Yunqing(106)

A Terahertz Image Denoising Algorithm Based on Adaptive Bilateral Filtering

..... GUO Junwen, SONG Guicai, LI Xingguang(111)

Infrared Image Enhancement Based on Gaussian Multimodal Fitting and

Histogram Normalization YAN Na, CUI Can, WANG Xiaoman(115)

Privacy-preserving Distributed Optimization Based on Conjugate Dual Gradient Methods LV Jingge, LI Dequan(120)

An Improved Energy Efficient Clustering Rounting Algorithm Based LEACH DUAN Yuanyuan, CHEN Guifen(126)

Research on Improved Load Balancing Algorithm of Weighted Round Robin

..... HAN Penghua, YE Qing, JIANG Xiaoming, CHEN Zhanfang(131)

Research on Target Tracking Algorithm Based on SURF and Camshift LI Jianjian, WANG Chunyang(135)

Application of Coarse Error Judgement Criterion in

The Pretreatment of Shooting Range Test Data LIU Yan, YU Lu(139)