

第41卷 第6期
Vol.41 No.6

CN 61-1171/O4
ISSN 1002-2082
CODEN YGUA E4

应用光学

Journal of Applied Optics

CSCD 中文核心期刊 中国科技核心期刊

中国兵器工业第二〇五研究所
中国兵工学会

6
2020

目次

光电系统与工程

- 系留升空平台光电探测目标的坐标转换误差分析
..... 刘飞,刘宇,茹志兵,郭佳,陈伟,刘志东,赵青林(1137)
- 50 mm ~ 1 000 mm 大变倍比变焦光学系统设计
..... 刘圆,叶德茂,王建楹,颜世恒,张泽南(1147)
- 无人机对地目标自动检测与跟踪技术 牛畅,尹奎英,黄银和(1153)
- 某型列车司机室眩光仿真与实验测试 姬贻,段伟仪,刘金荣,井硕,林燕丹(1161)
- 融合深度学习与外极线约束的三维人体位姿测量方法 宋丽梅,吕昆昆,杨燕翌(1166)
- 立体视觉测量系统标定误差补偿 崔恩坤,滕艳青,刘佳伟(1174)

光电信息获取与处理

- 基于锥形透镜的光线入射角度测量系统设计与研究
..... 王彦,王克逸,赵帅,沈远,蔡柏林,张磊(1181)
- 高效消除表面缺陷检测盲区的机器视觉在线检测系统
..... 王雪琨,于文文,洪存存,曹建军,钱维莹,高淑梅(1190)
- 基于数字图像相关技术的隐框玻璃幕墙抗风压性能评估
..... 周易非,原媛,刘文白,孔戈,高建卫(1197)
- 基于多尺度空洞卷积的对抗去雾网络 丛晓峰,章军,胡强(1207)
- 融合 RANSAC 光流跟踪法和特征点匹配法的视觉里程计 张峻琦,胡立坤(1214)

光学计量与测试

- 硬度压痕表面积的共聚焦测量方法 张凯林,石伟,程银宝,王中宇(1222)
- 真空环境火炸药辐射强度测试方法 韩占锁,曹锋,汪建刚,罗蓓蓓,秦艳,刘芳(1230)
- 大口径积分球光源绝对辐射定标技术研究
..... 袁林光,占春连,卢飞,范纪红,李燕,吴李鹏,尤越(1236)
- 基于三代微光 ICCD 成像装置的目标对比度影响因素测试分析
..... 陈旭浪,党小刚,郭欣达,王磊,张姝丽,拜晓锋,韩坤,袁渊,李军国,成伟(1241)
- 基于色差分析的不同光源下颜色稳定性研究 李辉峰,吕新广(1247)

基于 QCL-TDLAS 的 NH₃ 浓度测量仿真研究

..... 禹迎春,王 晗,王志敏,张梦莹,马磊磊,邹 芳,亢俊健(1255)

红外技术

高量值红外辐射照度校准技术研究 汪建刚,韩占锁,秦 艳,曹 锋,郭 羽(1262)

多维特征点空间的红外弱小目标检测方法 王 芳,王海晏,寇 添,聂光成(1268)

激光技术

基于激光移频回馈技术远距离振动测量研究 徐 众,张西良(1277)

脉冲激光测距回波信号时间选通处理技术 张浩朋,陈青山,刘 洋,吕 勇(1284)

光纤传感与光通信

强电磁干扰环境下光纤束传像系统的设计研究

..... 徐冬金,黄 恂,邓传鲁,胡程勇,张小贝,王廷云(1289)

分布式光纤声波振动传感系统研发及应用

..... 董小卫,谢 斌,潘 勇,王宁博,舒博钊,刘 帅(1298)

基于数据挖掘的光纤通信网络异常数据检测研究 马莉莉,刘江平(1305)

广 告 《应用光学》荣获“2020年第六届陕西省科技期刊优秀期刊”奖(1297) 慕尼黑上海光博会(封二) 国防科技工业光学一级计量站(彩插1~2,封三~四)

书 讯: 译著《光机系统设计(原英文第四版)》出版(1206)

本期责任编辑:杨永旷

期刊基本参数: CN 61-1171/O4 * 1980 * b * A4 * 174 * zh * P * ¥50.00 * 1500 * 24 * 2020-11

Contents

OE SYSTEM AND ENGINEERING

- Coordinate conversion error analysis of photoelectric detection targets on tethered lift-off platform
..... LIU Fei, LIU Yu, RU Zhibing, et al (1137)
- Design of 50 mm~1 000 mm zoom optical system with high zoom ratio
..... LIU Yuan, YE Demao, WANG Jianying, et al (1147)
- Automatic target detecting and tracking technology based on UAV ground target images
..... NIU Chang, YIN Kuiying, HUANG Yinhe (1153)
- Glare simulation and experiment of train's cab JI Ze, DUAN Weiyi, LIU Jinrong, et al (1161)
- 3-D human pose measurement method based on deep learning and epipolar constraint
..... SONG Limei, LYU Kunkun, YANG Yan'gang (1166)
- Calibration error compensation technique of stereoscopic vision measurement system
..... CUI Enkun, TENG Yanqing, LIU Jiawei (1174)

OE INFORMATION ACQUISITION AND PROCESSING

- Design and research of light incident angle measuring system based on conical lens
..... WANG Yan, WANG Keyi, ZHAO Shuai, et al (1181)
- Machine vision on-line detecting system for effectively eliminating non-detection zone of surface defects
..... WANG Xuekun, YU Wenwen, HONG Cuncun, et al (1190)
- Evaluation of wind resistance performance for hidden frame glass curtain walls based on digital image correlation technique ZHOU Yifei, YUAN Yuan, LIU Wenbai, et al (1197)
- Adversarial dehazing network based on multi-scale dilated convolution
..... CONG Xiaofeng, ZHANG Jun, HU Qiang (1207)
- Design of visual odometer based on RANSAC optical flow method and feature point matching method
..... ZHANG Junqi, HU Likun (1214)

OPTICAL METROLOGY AND MEASUREMENT

- Confocal measurement for surface area of hardness indentation
..... ZHANG Kailin, SHI Wei, CHENG Yinbao, et al (1222)
- Testing method about infrared radiation intensity of explosive used in vacuum environment
..... HAN Zhansuo, CAO Feng, WANG Jian'gang, et al (1230)
- Absolute radiometric calibration technique of large aperture integrating sphere source
..... YUAN Linguang, ZHAN Chunlian, LU Fei, et al (1236)

Test and analysis of factors influencing target contrast ratio based on 3rd generation LLL ICCD imaging device
..... CHEN Xulang, DANG Xiaogang, GUO Xinda, et al (1241)

Study on color stability under different light sources based on color difference analysis
..... LI Huifeng, LYU Xinguang (1247)

Simulation study of NH₃ concentration measurement based on QCL-TDLAS
..... YU Yingchun, WANG Han, WANG Zhimin, et al (1255)

INFRARED TECHNOLOGY

Study on calibration method for high infrared irradiance
..... WANG Jian'gang, HAN Zhansuo, QIN Yan, et al (1262)

Multi-dimensional feature point space infrared dim target detection method
..... WANG Fang, WANG Haiyan, KOU Tian, et al (1268)

LASER TECHNOLOGY

Long-distance vibration measurement based on laser frequency-shifted feedback interferometry
..... XU Zhong, ZHANG Xiliang (1277)

Time-gated processing of pulse laser ranging echo signal
..... ZHANG Haopeng, CHEN Qingshan, LIU Yang, et al (1284)

FIBER SENSING AND OPTICAL COMMUNICATION

Design and research of image transmission systems with fiber bundles in environment of strong electromagnetic interference XU Dongjin, HUANG Yi, DENG Chuanlu, et al (1289)

Development and application of distributed optical fiber acoustic vibration sensor system
..... DONG Xiaowei, XIE Bin, PAN Yong, et al (1298)

Research on abnormal data detection of optical fiber communication network based on data mining
..... MA Lili, LIU Jiangping (1305)