

光电工程

第 37 卷第 10 期
2010 年 10 月

Guangdian Gongcheng
(月刊)

总第 251 期
1974 年创刊

目次

•空间光学•

- 胶粘结固紧调焦镜有限元分析.....关英俊 (1)
卫星轨控推进器尾焰红外辐射的数值模拟.....金伟, 凌永顺, 吕相银 (6)
卫星激光通信随机振动补偿模拟实验研究.....许博谦, 王刚 (11)

•目标识别与跟踪•

- 基于遗传算法的粒子滤波跟踪算法.....陈善静, 杨华, 曾凯, 张红, 王一程 (16)
基于模糊-PID 控制的小型机载摄影稳定平台.....邱宝梅, 王凤娟, 王建文 (23)
一种动态模板匹配的卡尔曼滤波跟踪方法.....梁锡宁, 杨刚, 余学才, 王世阳, 朱良销, 苏柯, 陈涛 (29)

•薄膜光学•

- 导电聚合物有序超薄膜结构及光电特性.....郑华靖, 徐建华, 蒋亚东, 杨亚杰 (34)

•光电测量•

- 轮胎圆度误差检测系统的设计.....蔡怀宇, 王壮, 王文涛, 方磊, 黄战华 (41)
抽样莫尔在材料变形分析中的应用.....朱江平, 苏显渝, 向立群 (47)
直升机光电助降系统的双摄影测量算法及实验研究(英文).....杨承, 朱大勇, 彭真明, 张靖 (56)

•光学设计•

- 掠入射光学系统成像质量评价.....李顺, 巩岩, 张巍 (64)
2 m SiC 反射镜拱形轻量化结构设计.....范磊, 杨洪波, 张景旭, 吴小霞, 王富国, 司丽娜 (71)
红外材料低温折射率测定: 不确定度分析.....倪磊, 任栖峰, 廖胜 (77)

•图像与信号处理•

- 基于映射的复 Contourlet-1.3 纹理图像检索.....陈新武, 高岳, 马占卿, 郭建涛 (83)
基于 SRIO 的高速图像串行传输系统设计.....张峰, 任国强, 吴钦章 (89)
一种改进的 Fourier-Mellin 稳像算法.....王洪, 戴明, 刘洵, 李明 (93)
流媒体中的广告视频检测系统设计.....王红霞 (99)

•模式识别•

- 基于区域灰度变化的虹膜识别.....周喙, 沈建新, 廖文和, 叶永强 (104)

•先进光学制造技术•

- 非球面玻璃透镜模压成型的有限元应力分析.....尹韶辉, 靳松, 朱科军, 陈逢军, 余剑武 (111)
补偿器法检测非球面过程中易出现的误区.....明名, 杨飞, 陈宝刚, 李剑锋, 林旭东 (116)

•光谱学•

- 基于近红外透射光谱的黄酒酒精度、酸度检测模型研究.....胡小邦, 吕进, 刘辉军, 施秧, 刘铁兵, 李博斌 (122)

•光电器件与系统•

- 一种简易结构步进幅式航空相机摆扫控制系统.....周黎, 杨世洪, 高晓东 (128)
便携式紫外 GaN 相机与海洋应用初步验证.....钱炜峰, 尹达一, 陶邦一, 詹远增, 黄小仙, 黄星, 李玉敏 (134)
红外视轴稳定系统框架间非线性解耦.....赵艳花, 张伟民, 周阳 (139)
基于数字微镜器件和旋转螺旋屏的体三维显示系统.....潘文平, 沈春林, 李莉, 邢建芳, 樊琼剑 (144)

期刊基本参数: CN51-1346/O4 * 1974 * m * A4 * 150 * zh+en * P * ¥25.00 * 2000 * 25 * 2010-10 * n

Opto-Electronic Engineering

Vol.37, No.10

Total No. 251

Oct, 2010

(Monthly)

1974—2010

Contents

• Space Optics •

- Finite Element Analysis of the Focusing Mirror Fastened by Adhesive..... *GUAN Ying-jun* (1)
- Numerical Simulation of the Infrared Radiation of Satellite Orbit-control Thruster Plume.....*JIN Wei, LING Yong-shun, LÜ Xiang-yin* (6)
- Experimental Research on Satellite Random Vibration Compensation for Intersatellite Laser Communication.....*XU Bo-qian, WANG Gang* (11)

• Target Recognition and Tracking •

- Particle Filter Tracking Algorithm Based on Genetic Algorithm.....*CHEN Shan-jing, YANG Hua, ZENG Kai, ZHANG Hong, WANG Yi-cheng* (16)
- Small Aerial Photography Stabilized Platform Based on Fuzzy-PID Control.....*QIU Bao-mei, WANG Feng-juan, WANG Jian-wen* (23)
- Object Tracking Algorithm Based on Combining Dynamics Template Matching and Kalman Filter.....
.....*LIANG Xi-ning, YANG Gang, YU Xue-cai, WANG Shi-yang, ZHU Liang-xiao, SU Ke, CHEN Tao* (29)

• Thin Film Optics •

- Structure and Photoelectric Characteristic of Ordered Conducting Polymer Ultra Thin Film.....
.....*ZHENG Hua-jing, XU Jian-hua, JIANG Ya-dong, YANG Ya-jie* (34)

• Opto-electronic Measurement •

- Design of Tire Roundness Error Detection System.....*CAI Huai-yu, WANG Zhuang, WANG Wen-tao, FANG Lei, HUANG Zhan-hua* (41)
- The Application of Sampling Moiré Method in Material Deformation Analysis.....*ZHU Jiang-ping, SU Xian-yu, XIANG Li-qun* (47)
- Theoretical and Experimental Study for Dual Camera Photogrammetry Algorithm in Photoelectric Guidance System for Helicopter Landing.....
.....*YANG Cheng, ZHU Da-yong, PENG Zhen-ming, ZHANG Jing* (56)

• Optical Design •

- Image Quality Evaluation of Grazing Incidence Optical System.....*LI Shun, GONG Yan, ZHANG Wei* (64)
- Lightweight Design for 2 m SiC Arch Mirror.....*FAN Lei, YANG Hong-bo, ZHANG Jing-xu, WU Xiao-xia, WANG Fu-guo, SI Li-na* (71)
- Measurement of Cryogenic Refractive Index of IR Materials: Uncertainty Analysis.....*NI Lei, REN Qi-feng, LIAO Sheng* (77)

• Image and Signal Processing •

- Mapping-based Complex Contourlet-1.3 Texture Image Retrieval.....*CHEN Xin-wu, GAO Yue, MA Zhan-qing, GUO Jian-tao* (83)
- A High-speed Serial Transport Platform Based on SRIO for High-resolution Image.....*ZHANG Feng, REN Guo-qiang, WU Qin-zhang* (89)
- An Improved Fourier-Mellin Algorithm for Video Stabilization.....*WANG Hong, DAI Ming, LIU Xun, LI Ming* (93)
- The Detection of Advertisement Based on Content in Streaming Media..... *WANG Hong-xia* (99)

• Pattern Recognition •

- Iris Recognition Based on Regional Grayscale Change.....*ZHOU Xiao, SHEN Jian-xin, LIAO Wen-he, YE Yong-qiang* (104)

• Advanced Optical Manufacturing Technologies •

- Stress Analysis of Compression Molding of Aspherical Glass Lenses Using Finite Element Method.....
.....*YIN Shao-hui, JIN Song, ZHU Ke-jun, CHEN Feng-jun, YU Jian-wu* (111)
- The Mistake during the Process of Testing Aspheric Mirror Using Compensator.....
.....*MING Ming, YANG Fei, CHEN Bao-gang, LI Jian-feng, LIN Xu-dong* (116)

• Spectroscopy •

- Quantitative Model of Alcohol and Acid in Chinese Rice Wine Based on Near-infrared Transmission Spectroscopy.....
.....*HU Xiao-bang, LÜ Jin, LIU Hui-jun, SHI Yang, LIU Tie-bing, LI Bo-bin* (122)

• Opto-electronic Device and System •

- Scanning Control System of a Simple Structure Step Framing Aerial Camera.....*ZHOU Li, YANG Shi-hong, GAO Xiao-dong* (128)
- Portable UV GaN Camera and Its Preliminary Validation of Marine Application.....
.....*QIAN Wei-feng, YIN Da-yi, TAO Bang-yi, ZHAN Yuan-zeng, HUANG Xiao-xian, HUANG Xing, LI Yu-min* (134)
- Non-linear Decoupling between the Frameworks of Infrared Sight Axis Stabilization System.....*ZHAO Yan-hua, ZHANG Wei-min, ZHOU Yang* (139)
- Volume Three-dimensional Display System Based on DMD and a Spinning Helical Screen.....
.....*PAN Wen-ping, SHEN Chun-lin, LI Li, XING Jian-fang, FAN Qiong-jian* (144)