

《光电技术应用》第26卷(2011年)总目次

总第116~121期

·光电系统·

期 (页)

基于ADN8830的非制冷红外焦平面温度控制系统	张晓鹏,郭经纬	1	(1)
采用Mean-Shift算法的目标跟踪系统设计	李金亮,高文静,王 垒	1	(5)
基于Labview的激光Z扫描实验系统设计	毕祥丽,赵万利,张晓光	1	(8)
光电隐身效果的评估方法	杜翠兰,周建忠	2	(1)
基于坐标变换的视轴稳瞄算法	李大成,赵宏斌	2	(5)
太赫兹波对抗等离子体隐身技术的探讨	李 茜,徐 晟,刘少聪,等	2	(9)
基于立体视觉的三维模型重建系统设计	赵 娟,曾 强,魏林媛,等	2	(12)
光电设备的三维减振系统设计	赵洪阳,孟庆祚,宋 田	4	(1)
基于SOPC的实时图像处理系统设计	许 峥,李 明,李成金,等	4	(4)
基于CPLD+FLASH的多通道测试记录仪	董刚刚,吴 建,曾 强	4	(8)
基于CCD的远场激光光斑测量系统开发与应用	张颖新,王云萍,王 禹	4	(11)
非扫描激光主动成像系统性能分析	张晟翀,朱海波,唐树威,等	5	(1)
基于线激光扫描的三维重构系统设计	杨 薇,赵 娟,周学威,等	5	(5)
光学相控阵技术进展及其应用	李 曼,许 宏	5	(8)
无人机导航系统的探索与研究	曾歆妍	5	(11)
基于动态ICD 1553B总线监控事后分析的研究	王小英,刘承禹,王 静,等	5	(13)
折叠式微型数码镜头的设计	阙立志,苏宙平,赵艳莉	6	(1)
一种简易红外温控系统的设计	管敏杰,赵冬娥	6	(4)
车载高精度陀螺稳定跟踪系统	吴卓昆,舒小芳,孙利军,等	6	(8)
LCoS光引擎成像测试实验方法及结果分析	刘 浩	6	(11)
光电探测系统激光辐照效应的远场仿真分析	张咏梅,张建新	6	(14)
LCD显示器三色色域测量和不同色空间应用对比	王 凯,吕毅军,高玉琳,等	6	(18)

·光学设计·

高斯光束微圆孔衍射的整形变换	常 山,肖清武,何 洁,等	1	(20)
空心傍轴高斯光束的传输特性	刘珊珊,刘双峰,张磊磊	1	(24)
空间相机共轴三反红外光学系统设计	袁 涛,熊衍建,吴晗平	2	(21)
大功率光纤激光器相干组束的研究	彭 辉	2	(27)
Zernike多项式波面拟合精度研究	冯 婕,白 瑜,邢廷文	2	(31)
一种红外镜头的被动式无热补偿设计	陈德富,李相军,朱 敏	3	(21)
具有轨道角动量的空间光孤子的研究进展	寿 倩	3	(24)

·红外技术·

基于Vega的红外视景仿真技术	高 波,陈红业	3	(10)
不同垂直高程大气红外吸收透过率的计算	宋 伟,邵 立,汪亚夫	3	(14)

区域图像融合算法在红外图像分析中的应用·····	张 勇,陈大建	3 (17)
林地型背景植被温度估算模型·····	马栋良,杨大峰,刘国权,等	4 (32)
泡沫对目标红外探测的影响·····	章文芳,胡 波,宋 伟,等	4 (35)
一种基于热管温控技术的红外抑制方法·····	杨 辉,谢 卫,张拴勤,等	6 (22)
硬件实现一种新的红外图像边缘检测算法·····	郭 婧,黄家才	6 (25)

·激光技术·

2 kHz 重复频率紧凑型 TEA CO ₂ 激光器·····	郑义军,王 旭,谭荣清,等	1 (12)
热透镜效应对固体激光器输出影响研究·····	蔡 军,张晓娟,徐 涛	1 (15)
白光激光的产生及特性·····	陈亚楠,高 鹏,杨光达	1 (18)
Tm 脉冲激光器泵浦的中红外固体激光器·····	张晓娟,蔡 军,许 宏,等	2 (15)
激光在复杂大气环境下传输特性的仿真·····	赵安新,赵同刚	2 (18)
基于亥姆霍兹方程的有源非稳腔模式计算方法·····	张 骁,刘文广	3 (1)
一种激光脉冲相关检测的改进方法·····	韦卫东,孙晓泉,孙晓军	3 (4)
双振镜激光扫描的误差分析及校正方法·····	韩万鹏,蒙 文,李云霞,等	4 (14)
激光辐照对光导型探测器性能的影响·····	郑 鑫,江 天,程湘爱	4 (19)
相干控制光电流的物理研究及进展·····	寿 倩	4 (22)
高斯谢尔模光束通过 ABCD 光学系统的偏振特性·····	陈 凯,曹润秋,陆启生	4 (28)
长脉冲激光与金属相互作用影响分析·····	任天宇,王 洋,薛 阳	6 (28)
控制光对受激布里渊散射光存储的影响·····	司 军,丁迎春	6 (33)
脉宽对飞秒激光烧蚀合金影响的数值模拟·····	朱诗佳,王新林,朱卫华,等	6 (39)

·光电探测·

遮蔽目标的激光雷达回波信息处理·····	黄 涛,胡以华	1 (27)
猫眼离焦量与探测光束参数对猫眼回波的影响·····	张创新,孙晓泉	1 (31)
大气散射对合成孔径激光雷达回波信噪比的影响·····	吕旭光,闫 飞,郝士琦	1 (36)
色差对猫眼系统回波影响的理论与实验·····	豆贤安,孙晓泉,张创新	2 (35)
红外搜索跟踪系统作用距离分析与计算·····	严世华,祝世杰	2 (39)
一种提高脉冲激光测距精度的方法·····	朱 福,林一楠	2 (42)

·光电器件与材料·

红外光学薄膜技术·····	王毕艺,李建峰,刘 鑫,等	1 (40)
利用等效电容计算复合材料的有效介电常数·····	唐厚超,吕绪良,吴 超,等	1 (44)
环形聚焦激光加热系统 LHPG 法生长氧化钪单晶光纤·····	李肖廷,李仰军,王 高	1 (47)
II 类超晶格甚长波红外探测器的发展·····	王忆锋,余连杰,钱 明	2 (45)
一维复周期全息光子晶体禁带研究·····	程 阳,崔丽彬	2 (53)
高温光纤传感器传感头材料·····	魏 林,王 高,高志强,等	2 (56)
界面电荷对 C-Si 表面钝化质量的影响·····	高 华,汪建强,张 剑,等	3 (28)
基于正交实验法的高亮度大功率 LED 仿真设计·····	陈肇飞,范广涵,章 勇,等	3 (35)
应用于 ROF 系统的微波光子发生器研究进展·····	刘观辉,裴 丽,高 嵩,等	3 (40)
突破衍射极限的表面等离子体激元·····	陈燕坤,韩伟华,李小明,等	4 (39)
声表面波叉指换能器的研究与设计·····	平均芬,乐夜纯	4 (45)
PCID 方法对铝背场钝化技术的分析·····	闫 丽,高 华	4 (49)
多孔硅衬底上 ZnS 薄膜的 PLD 制备和表征·····	王彩凤,李清山,胡 波,等	4 (53)

基于数字光栅相移法的三维重构	肖丹,陈良洲,干江红	5 (17)
基于LHPG法的单晶光纤生长技术研究	赵慧明,李仰军,王高,等	5 (21)
亚波长双周期光栅电磁理论发展与现状	袁博,宁提纲,许丽丽,等	5 (24)
1/4波片对全光纤电流传感器的影响与优化	段俊杰,吴衍记,杨恽,等	5 (28)
三分量加速度地震检波器中3-dB耦合器设计	恩德,冯捷逾,张宁波	5 (33)
光谱选择性激光隐身材料研究现状	潘家亮,张拴勤,卢言利,等	6 (45)
二维光子晶体的能带及慢光特性研究	李彩珊,姜淑琴	6 (49)
激光器腔镜变形分析及热管冷却方法研究	刘丽,安朝卫,宋洁冰,等	6 (55)
不同针孔直径下衍射波面的标量和矢量分析	王瑞林,张丽霞,邢廷文	6 (58)

·信号与信息处理·

基于计算机视觉的深度估计方法	江静,张雪松	1 (51)
一种快速的航空图像边缘提取方法	汪中贤,史建军,张正武	1 (56)
复杂网格模型仿射变换的GPU加速计算	钟庆,华顺刚	1 (59)
基于小波变换的爆炸物太赫兹光谱降噪分析	姚宝岱,王高	1 (63)
基于误差阈值和最小二乘图像拼接关系矩阵的实现	赵秀影,王洪玉,杨子龙,等	2 (61)
基于IRFPA改进中值滤波算法的FPGA实现	杨绍岩,刘万成,周长春	2 (64)
电离层回波信号的瞬时频率估计	李琼,余志惠,冷毅,等	2 (68)
基于梯度法的数字散斑图像相关亚像素搜索算法	王琳霖,唐晨	3 (45)
基于决策树的Landsat多光谱影像分类方法	黄立贤,沈志学	3 (49)
无驱动结构硅微机械陀螺的信号处理	徐国文	3 (53)
应用MATLAB分析语音信号	冯彦君,靳鸿,章晓眉	3 (57)
基于多视图SIFT特征的三维模型检索	江秋鑫,华顺刚,时树胜	4 (56)
面向人在回路感兴趣区动态编码方法	程恭,陈青华,李祁,等	4 (61)
基于MiniGUI/Embedded的图像处理技术	周培源	4 (64)
小波分析在地铁杂散电流光纤传感系统中的应用	蔡李花,方海峰	4 (69)
航拍图像效果增强软件研究	汪中贤,许爱华,张正武,等	5 (37)
城市快速路监控视频中的行人检测方法	李权,赵勋杰	5 (42)
干涉型光纤传感器相位载波解调技术研究	夏东明,姜淑琴,温晓栋,等	5 (47)
基于中值滤波和生物仿生学的图像增强研究	王群,何永强,周云川	5 (51)
全向激光探测中抑制太阳光引发虚假信号的研究	张维安,杨晓杰,周中亮	5 (55)
近红外星图质心检测C样条插值法和高斯方法比较	陆斌,郭少军,王铎	5 (59)
一种基于图像平滑的阈值分割方法	张俊生,侯慧玲,赵晓霞	6 (62)
基于控制点的多光谱图像自动配准研究	黄立贤,沈志学,张大勇,等	6 (66)
基于中值移位的粒子滤波多目标跟踪算法	李春鑫	6 (70)
基于缺损目标的CamShift序列图像跟踪方法	李晓冰,王玉梅,张宏艺	6 (75)

·电路与控制·

高速密集多路光电信号的并行采集与控制	张斌,赵冬娥,宋涛,等	1 (66)
基于FT245的Linux USB驱动的设计	曾强,赵娟,魏林,等	1 (70)
TEA CO ₂ 激光器串联谐振式充电电源研究与设计	司汉英,高文清	2 (71)
基于CPLD的多通道数据采集系统	章晓眉,冯彦君	2 (76)
智能单相电机保护器的设计	林玉明	2 (80)
电子设备电磁兼容性分析与设计	张秋菊,杜江	3 (61)

Windows 2000环境下的串口通信	刘 洋,孙 硕	3 (65)
基于89C52单片机的光纤型SPR传感网络的设计.....	罗倩倩,赵冬娥	3 (71)
基于单片机的FSK信号发生器	李培建,尹中秋,胡剑锋	5 (64)
低测试电流的微电阻测量系统	安 莹,胡 娟	5 (68)
光电跟踪伺服系统中的模糊PID控制器设计	胡大军,吴晗平,黄 璐	5 (72)
基于动态规划的红外弱小目标检测算法的硬件实现.....	刘万成,张悦玲,王春风	5 (77)

·测试、试验与仿真·

三种颜色空间的亮度分量在伪装效果评价中的应用	黄雁华,武文远,龚艳春,等	1 (74)
天幕靶灵敏度的标定方法与试验	杜文斌,范军旗	1 (78)
信号弹高度测试技术	张磊磊,雷树峰,冯巧玲,等	3 (74)
基于变换观测模型的粒子滤波跟踪算法.....	李春鑫	3 (78)
高速摄像在起落架载荷测试中的应用	左益宏,何红丽,冯巧宁,等	3 (82)
基于小波理论的PSD测试系统的数据分析	尹国鑫,王 高,李仰军,等	3 (85)
基于Visual Basic的激光谐振腔数据库的建立	薛竣文,裴雪丹,苏秉华,等	4 (73)
量化颜色直方图的改进与应用	黄雁华,武文远,龚艳春,等	4 (76)
电子设备可靠性的加速试验	张秋菊,刘承禹	4 (81)
发射药燃烧光谱测试技术	陈明华,阎建平	4 (86)

· 卷 终 ·

Annual Culmulative Contents of ELECTRO-OPTIC TECHNOLOGY APPLICATION 2011

Opto-electronic System

Uncooled Infrared Focal Plane Temperature Control System Based on ADN8830	ZHANG Xiao-peng, GUO Jing-wei 1 (1)
Design of Maritime Targets Tracking System Based on Mean-Shift Algorithm	LI Jin-liang, GAO Wen-jing, WANG Lei 1 (5)
Design of Laser Beam Z-Scan System Based on Labview	BI Xiang-li, ZHAO Wan-li, ZHANG Xiao-guang 1 (8)
Method of Electro-optic Stealth Effect Evaluation	DU Cui-lan, ZHOU Jian-zhong 2 (1)
Line of Sight Stabilization Algorithms Based on Coordinate Transformation	LI Da-cheng, ZHAO Hong-bin 2 (5)
Discussion on Terahertz Against Plasma Stealth Technology.....	LI Qian, XU Sheng, LIU Shao-chong, et al 2 (9)
Design of 3D Model Reconstruction System Based on Stereovision ...	ZHAO Juan, ZENG Qiang, WEI Lin-yuan, et al 2 (12)
3-DOF Vibration Reduction System Design of Optical Equipment ...	ZHAO Hong-yang, MENG Qing-wei, SONG Tian 4 (1)
Design of Real-time Image Processing System Based on SOPC	XU Zheng, LI Ming, LI Cheng-jin, et al 4 (4)
Multi-channel Stored Testing and Measuring Device Based on CPLD and FLASH	DONG Gang-gang, WU Jian, ZENG Qiang 4 (8)
Development and Application of Far-Field Laser Spot Measurement System Based on CCD	ZHANG Ying-xin, WANG Yun-ping, WANG Yu 4 (11)
Performance Analysis on Non-scanned Active Laser Imaging System	ZHANG Sheng-chong, ZHU Hai-bo, TANG Shu-wei, et al 5 (1)
3D Reconstruction System Design Based on Line Laser Scanning ...	YANG Wei, ZHAO Juan, ZHOU Xue-wei, et al 5 (5)
Progress and Application of Optical Phased Array Technology	LI Man, XU Hong 5 (8)
Exploration and Research of UAV Navigation System.....	ZENG Xin-yan 5 (11)
Study of 1553B Bus Monitoring Post-hoc Analysis Based on Dynamic ICD	WANG Xiao-ying, LIU Cheng-yu, WANG Jing, et al 5 (13)
Design of Folded Miniature Digital Lens	QUE LI-zhi, SU Zhou-ping, ZHAO Yan-li 6 (3)
Design of Infrared Temperature Control System	GUAN Min-jie, ZHAO Dong-e 6 (4)
High Precision Vehicular Gyro-stabilized Tracking System	WU Zhuo-kun, SHU Xiao-fang, SUN Li-jun, et al 6 (8)
Experimental Method and Result Analysis for Imaging Test of LCoS Light Engine	LIU Hao 6 (11)
Far-field Simulation and Analysis on Laser Irradiation of Electro-optical Detection System	ZHANG Yong -mei, ZHANG Jian-xin 6 (14)
3D Color Gamut Measurement of LCD Monitor and Evaluation in Different Color Spaces	WANG Kai, LV Yi-jun, GAO Yu-lin, et al 6 (18)

Optical Design

Shaping Transformation of Micro-Circular Aperture Diffraction of Gaussian Beam	CHANG Shan, XIAO Qing-wu, HE Jie, et al 1 (20)
Paraxial Propagation Properties of Hollow Gaussian Beams	LIU Shan-shan, LIU Shuang-feng, ZHANG Lei-lei 1 (24)
Design of Coaxial Three-mirror Infrared Optical System for Space Camera	YUAN Tao, XIONG Yan-jian, WU Han-ping 2 (21)
Coherent Beam Combining Technology of High Power Fiber Laser	PENG Hui 2 (27)
Fitting Accuracy of Wavefront Using Zernike Polynomials	FENG Jie, BAI Yu, XING Ting-wen 2 (31)
Design of Passive Athermal Compensation of Infrared Lens	CHEN De-fu, LI Xiang-jun, ZHU Min 3 (21)
Optical Spatial Solitons with Orbital Angular Momentum	SHOU Qian 3 (24)

Infrared Technology

- Infrared Visual Simulation Based on Vega GAO Bo, CHEN Hong-ye 3 (10)
- Calculation of Atmospheric Infrared Absorption Transmittance in Different Vertical Heights
..... SONG Wei, SHAO Li, WANG Ya-fu 3 (14)
- Region-based Image Fusion Algorithm in Infrared Image Analysis ZHANG Yong, CHEN Da-jian 3 (17)
- Temperature Calculational Model of Woodland Background Vegetation
..... MA Dong-liang, YANG Da-feng, LIU Guo-quan, et al 4 (32)
- Effort of Foam on Target Infrared Detection ZHANG Wen-fang, HU Bo, SONG Wei, et al 4 (35)
- Infrared Suppression Approach Based on Heat Pipe Temperature Control Technology
..... YANG Hui, XIE Wei, ZHANG Shuan-qin, et al 6 (22)
- Hardware Realization for Algorithm of Infrared Image Edge Detection GUO Jing, HUANG Jia-cai 6 (25)

Laser Technology

- 2 kHz Repetition-rate Compact TEA CO₂ Laser ZHENG Yi-jun, WANG Xu, TAN Rong-qing, et al 1 (12)
- Influence of Thermal Lens Effect on Output of Solid State Laser CAI Jun, ZHANG Xiao-juan, XU Tao 1 (15)
- Generation and Characteristic of White Light Laser CHEN Ya-nan, GAO Peng, YANG Guang-da 1 (18)
- Tm Pulse Laser Pumped Mid-IR Solid State Laser ZHANG Xiao-juan, CAI Jun, XU Hong, et al 2 (15)
- Simulation of Laser Propagation Characteristic in Complex Atmospheric Environment
..... ZHAO An-xin, ZHAO Tong-gang 2 (18)
- Mode Calculation Method for Active Unstable Resonator Based on Helmholtz Equation
..... ZHANG Xiao, LIU Wen-guang 3 (1)
- Improvement Method in Laser Pulse Correlation Detection WEI Wei-dong, SUN Xiao-quan, SUN Xiao-jun 3 (4)
- Error Analysis and Correction Methods of Dual Galvanometer Scanning
..... HAN Wan-peng, MENG Wen, LI Yun-xia, et al 4 (14)
- Effect of Laser Irradiation on Performance of Photoconductive Detector
..... ZHENG Xin, JIANG Tian, CHENG Xiang-ai 4 (19)
- Physical Research and Progress of Coherent Control Photocurrent SHOU Qian 4 (22)
- Polarization Properties of Gaussian Schell-model Beams through ABCD Optical System
..... CHEN Kai, CAO Jian-qiu, LU Qi-sheng 4 (28)
- Analysis of Long Pulse Laser-metal Interaction REN Tian-Yu, WANG Yang, XUE Yang 6 (28)
- Effect of Control-light on Light Storage via SBS SI Jun, DING Ying-chun 6 (33)
- Numerical Simulation for Influence of Pulse Duration on Femtosecond Laser Ablation of Alloy
..... ZHU Shi-jia, WANG Xin-lin, ZHU Wei-hua, et al 6 (39)

Opto-electronic Detection

- Information Processing of Lidar Echo for Obscure Target HUANG Tao, HU Yi-hua 1 (27)
- Influences of Focal Shift and Detection Beam Parameters on Cat-eye Echo ZHANG Chuang-xin, SUN Xiao-quan 1 (31)
- Effect of Atmosphere Scattering on Echo Signal SNR of SAL LV Xu-guang, YAN Fei, HAO Shi-qi 1 (36)
- Theory and Experiment of Influence of Chromatic Aberration on Cat-eye System Echo
..... DOU Xian-an, SUN Xiao-quan, ZHANG Chuang-xin 2 (35)
- Analysis and Calculation for Operating Range ofIRST System YAN Shi-hua, ZHU Shi-jie 2 (39)
- Method to Improve Accuracy of Pulse Laser Ranging ZHU Fu, LIN Yi-nan 2 (42)

Opto-electronic Device and Material

- Infrared Optical Thin Film Technology WANG Bi-yi, LI Jian-feng, LIU Xin, et al 1 (40)
- Algorithm for Effective Permittivity of Composite Materials Using Equivalent Capacitance
..... TANG Hou-chao, LV Xu-liang, WU Chao, et al 1 (44)
- Zirconia Single Crystal Fiber Growth in Circular Focused Laser Heated System LHPG Method
..... LI Xiao-ting, LI Yang-jun, WANG Gao 1 (47)
- Development of Type-II Superlattices for Very Long Wavelength Infrared Detector
..... WANG Yi-feng, YU Lian-jie, QIAN Ming 2 (45)

Research on Band-gap of One-dimensional Complex-periodic Holographic Photonic Crystals	CHENG Yang, CUI Li-bin	2	(53)
Sensing Head Materials of High Temperature Optical Fiber Sensor	WEI Lin, WANG Gao, GAO Zhi-qiang, et al	2	(56)
Influence of Interface Charge on Passivation Quality of C-Si Surface	GAO Hua, WANG Jian-qiang, ZHANG Jian, et al	3	(28)
Simulation Design of High-brightness LED Based on Orthogonal Experiment	CHEN Zhao-fei, FAN Guang-han, ZHANG Yong, et al	3	(35)
Progress of Microwave Photonics Generator Used in ROF System	LIU Guan-hui, PEI Li, GAO Song, et al	3	(40)
Surface Plasmonics Polaritons beyond Diffraction Limit	CHEN Yan-kun, HAN Wei-hua, LI Xiao-ming, et al	4	(39)
Research and Design of Surface Acoustic Wave Interdigital Transducer	PING Jun-fen, LE Zi-chun	4	(45)
Analysis of Aluminum Back-Surface Field Passivation Technique by PC1D	YAN Li, GAO Hua	4	(49)
PLD Preparation and Characterization of ZnS Films on Porous Silicon Substrates	WANG Cai-feng, LI Qing-shan, HU Bo, et al	4	(53)
3D Reconstruction Based on Digital Grating Phase-shifting	XIAO Dan, CHEN Liang-zhou, GAN Jiang-hong	5	(17)
Single Crystal Fiber Growth Technology Based on LHPG Method	ZHAO Hui-ming, LI Yang-jun, WANG Gao, et al	5	(21)
Recent Advances and Situation of Electromagnetic Theory of Subwavelength Dual-period Gratings	YUAN Bo, NING Ting-gang, XU Li-li, et al	5	(24)
Study and Optimum Design of Quarter-waveplate in All Fiber Optical Current Transducer	DUAN Jun-jie, WU Yan-ji, YANG Yi, et al	5	(28)
Design of 3-dB Coupler in Three-component Acceleration Seismic Geophone	EN De, FENG Jie-yu, ZHANG Ning-bo	5	(33)
Study Status of Spectral Selective Laser Stealth Materials	PAN Jia-liang, ZHANG Shuan-qin, LU Yan-li, et al	6	(45)
Study on Energy Band and Slow Light of 2D Photonic Crystal	LI Cai-shan, LOU Shu-qin	6	(49)
Deformation Analysis of Laser Cavity Mirror and Method of Heat Pipe Cooling	LIU li, AN Chao-wei, SONG Jie-bing, et al	6	(55)
Scalar and Vector Analysis of Diffraction Wave with Different Pinhole Diameter	WANG Rui-lin, ZHANG Li-xia, XING Ting-wen	6	(58)

Signal and Information Processing

Depth Estimation Methods Based on Computer Vision	JIANG Jing, ZHANG Xue-song	1	(51)
A Rapid Edge Detection Method for Aerial Image	WANG Zhong-xian, SHI Jian-jun, ZHANG Zheng-wu	1	(56)
GPU Accelerated Computation for Affine Transformation of Complex Mesh Mode ...	ZHONG Qing, HUA Shun-gang	1	(59)
Denoising Analysis of Terahertz Spectra of Explosives Based on Wavelet Transform	YAO Bao-dai, WANG Gao	1	(63)
Realization of Relationship Matrix Based on Error Threshold and Least Squares Method in Image Mosaic	ZHAO Xiu-ying, WANG Hong-yu, YANG Zi-long, et al	2	(61)
FPGA Implementation for Improved Median Filtering Algorithm Based on IRFPA	YANG Shao-yan, LIU Wan-cheng, ZHOU Chang-chun	2	(64)
Instantaneous Frequency Estimation of Ionospheric Echo Signal	LI Qiong, YU Zhi-hui, LENG Yi, et al	2	(68)
Sub-pixel Searching Algorithm of Digital Image/ Speckle Correlation Based on Gradient Method	WANG Lin-lin, TANG Chen	3	(45)
Classification Methods of Landsat Multi-spectral Images Based on Decision Tree	HUANG Li-xian, SHEN Zhi-xue	3	(49)
Signal Processing for Non-driven Silicon Micromachining Gyro	Xu Guo-wen	3	(53)
Analysis of Speech Signals Using MATLAB	FENG Yan-jun, JIN Hong, ZHANG Xiao-mei	3	(57)
Multi-View 3D Retrieval Using SIFT Feature	JIANG Qiu-xin, HUA Shun-gang, SHI Shu-sheng	4	(56)
Dynamic Regions of Interest Coding for Man-in-the-loop	CHENG Gong, CHEN Qing-hua, LI Qi, et al	4	(61)
Image Processing Technology Based on MiniGUI/Embedded	ZHOU Pei-yuan	4	(64)
Application of Wavelet Analysis in Optical Fiber Sensing System of Metro Stray Current	CAI Li-hua, FANG Hai-feng	4	(69)

Study of Aerial Image Enhancement Software	WANG Zhong-xian,XU Ai-hua,ZHANG Zheng-wu,et al	5	(37)
Research on Pedestrian Detection in Expressway Video Monitoring System	LI Quan,ZHAO Xun-jie	5	(42)
PGC Method Using in Fiber-optic Interference Sensors	XIA Dong-ming, LOU Shu-qin, WEN Xiao-dong, et al	5	(47)
Research of Image Enhancement Method Based on Median Filtering and Biological Bionics	WAGN Qun, HE Yong-qiang, ZHOU Yun-chuan	5	(51)
Study on Suppressing False Signal Generated by Sunlight in Omni-directional Laser Detection	ZHANG Wei-an, YANG Xiao-jie, ZHOU Zhong-liang	5	(55)
Centroid Detection of Targets on Near Infrared Stellar Map Based on C Spline Method and Gauss Method Comprision	LU Bin, GUO Shao-jun, WANG Duo	5	(59)
Threshold Segmentation Algorithm Based on Image Smoothing	ZHANG Jun-sheng, HOU Hui-lin, ZHAO Xiao-xia	6	(62)
Automatic Registration for Multi-spectral Images Based on Control Points Algorithm	HUANG Li-xian, SHEN Zhi-xue, ZHANG Da-yong, et al	6	(66)
Multi-object Tracking Algorithm of Particle Filter Based on Median Shift	LI Chun-xin	6	(70)
Tracking Method of CamShift Sequence Image Based on Incomplete Object	LI Xiao-bing, WANG Yu-mei, ZHANG Hong-yi	6	(75)

Circuit and Control

Parallel Acquisition and Control of High Speed and Intensive Multi-Channel Optical Signals	ZHANG Bin, ZHAO Dong-e, SONG Tao, et al	1	(66)
Design of Linux USB Driver Based on FT245	ZENG Qiang, ZHAO Juan, WEI Lin, et al	1	(70)
Design and Research of TEA CO ₂ Laser Charging Power Supply with Series Resonant Mode	SI Han-ying, GAO Wen-qing	2	(71)
Multi-channels Data Acquisition System Based on CPLD	ZHANG Xiao-mei, FENG Yan-jun	2	(76)
Design of Intelligent Single-phase Motor Protector Based on Single-chip Microcomputer	LIN Yu-ming	2	(80)
Analysis and Design of EMC for Electronic Equipment	ZHANG Qiu-ju, DU Jiang	3	(61)
Serial Port Communication in Windows 2000 Environment	LIU Yang, SUN Shuo	3	(65)
Design of Optical Fiber SPR Sensor Network Based on 89C52 Single-chip	LUO Qian-qian, ZHAO Dong-e	3	(71)
FSK Signal Generator Based on MCU	LI Pei-jian, YIN Zhong-qiu, HU Jian-feng	5	(64)
Micro-resistance Measuring System of Low Measuring Current	AN Ying, HU Juan	5	(68)
Design of Fuzzy PID Controller for Electro-Optical Tracking Servo-System	HU Da-jun, WU Han-ping, HUANG Lu	5	(72)
Hardware Implementation of Infrared Weak and Small Target Detection Algorithm Based on Dynamic Programming	LIU Wan-cheng, ZHANG Yue-ling, WANG Chun-feng	5	(77)

Tests, Experiments and Simulation

Three Different Luminance Components of Color Space Applying in Camouflage Effectiveness Evaluation	HUANG Yan-hua, WU Wen-yuan, GONG Yan-chun, et al	1	(74)
Study and Experiment on Sensitivity Calibration of Sky Screen Target	DU Wen-bin, FAN Jun-qi	1	(78)
Height Measurement of Signal Flare	ZHANG Lei-lei, LEI Shu-feng, FENG Qiao-ling, et al	3	(74)
Particle Filter Tracking Algorithm Based on Switching Observation Models	LI Chun-xin	3	(78)
Application of High Speed Video in Load Test for Aircraft Landing Gear	ZUO Yi-hong, HE Hong-li, FENG Qiao-ning, et al	3	(82)
Data Analysis of PSD Test System Based on Wavelet Theory	YIN Guo-xin, WANG Gao, LI Yang-jun, et al	3	(85)
Build-up of Laser Resonator Database Based on Visual Basic	XUE Jun-wen, PEI Xue-dan, SU Bing-hua, et al	4	(73)
Improvement and Application of Color Histogram	HUANG Yan-hua, WU Wen-yuan, GONG Yan-chun, et al	4	(76)
Reliability Accelerated Testing (RAT) for Electronic Equipments	ZHANG Qiu-ju, LIU Cheng-yu	4	(81)
Measurement of Combustion Spectrum for Propellants	CHEN Ming-hua, YAN Jian-ping	4	(86)