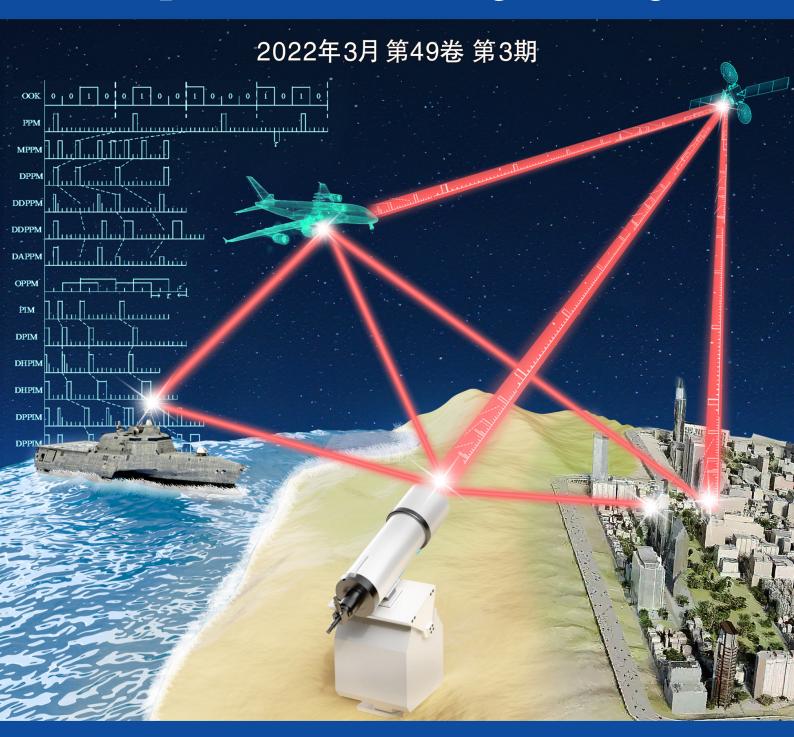
光电工程



Opto-Electronic Engineering





万方数据



光电工程

(Guangdian Gongcheng)

月刊 1974 年创刊 第 49 卷 第 3 期(总第 388 期) 2022 年 3 月

主管单位:中国科学院

主办单位: 中国科学院光电技术研究所

中国光学学会

主 编: 罗先刚

编辑出版:《光电工程》编辑部

(四川省成都市双流区 350 信箱, 邮编 610209)

电 话: 028-85100579

电子邮箱: oee@ioe.ac.cn

网 址: http://www.oejournal.org

印 刷:四川玖艺呈现印刷有限公司

国内发行:四川省报刊发行局

(邮发代号: 62-296)

国外发行:中国国际图书贸易集团有限公司

(发行代号: M7114)

中国标准连续出版物号:

ISSN 1003-501X

CN 51-1346/O4

出版时间:每月25日

Opto-Electronic Engineering

(Monthly, since 1974)

Volume 49, Issue 3 March 2022

Managed by

Chinese Academy of Sciences

Sponsored by

Institute of Optics and Electronics, Chinese Academy of Sciences

The Chinese Optical Society

Editor-in-Chief Luo Xiangang

Editor in Orner Edo Mangar

Edited and Published by

Editorial Office of *Opto-Electronic*

Engineering, P. O. Box 350, Shuangliu,

Chengdu 610209, P.R.China

Tel +86-28-85100579 E-mail oee@ioe.ac.cn

Website http://www.oejournal.org

Printed by Sichuan Joy Art Printing Co., Ltd.

Domestic Distributed by

Sichuan Provincial Newspaper &

Periodical Subscription and Distribution

Bureau (Code: 62-296)

Overseas Distributed by

China International Book Trading Corporation (Code: M7114)

目次

综述

无线光通信类脉冲位置调制技术研究进展	
	0387
科研论文	
量子光通信中位置修正单检测控制方法	
李志俊,毛 耀,亓 波,	
周 翕,刘 琼,周 倩 21	.0311
改进型高性能静态像差校正技术(英文)	
任德清,张天宇,王 钢 21	.0319
采用注意力机制的显微图像智能检测方法	
刘娟秀,杜晓辉,刘 霖 21	.0361
用于光纤干涉传感器的高稳定 PGC 解调技术	
孔 勇, 叶华龙, 何 军 21	.0368
基于改进 YOLOv5s 的无人机图像实时目标	
检测	
	0372

本期封面图片由西安理工

大学柯熙政提供。

扫描二维码,获取本期 PDF 全文

Volume 49, Issue 3 March 2022 (Monthly, since 1974)

Contents		
	Review	
	Research progress of pulse position modulation technology in optical wireless communication Ke Xizheng, Liang Jingyuan, Xu Dongsheng, Wang Jiafan	210387
	The research progress of various types of pulse position modulation at home and abroad was summarized, and then the research from the Xi'an University of Technology in the area of pulse position modulation was introduced.	
	Article	
	Research on control technology of single detection based on position correction in quantum optical communication Li Zhijun, Mao Yao, Qi Bo, Zhou Xi, Liu Qiong, Zhou Qian	210311
	To add a position sensor in precision and high-precision tracking loops respectively was proposed. On the one hand, the position sensor closed-loop was used to improve the certainty of the inner loop control object and facilitate parameter setting. On the other hand, the deviation of the position sensor reflected the deviation of the TV miss distance.	
	An optimized high-performance technique for adaptive optics static aberration correction Ren Deqing, Zhang Tianyu, Wang Gang	210319
	An optimized focal-plane-based static aberration correction technique was presented, and the technique can copy a perfect point-spread function (PSF) generated by a single-mode fiber to the AO system via iteration optimization algorithm and static aberration in the AO system can be rapidly corrected.	
	An automatic object detection method for microscopic images based on attention mechanism Hao Ruqian, Wang Xiangzhou, Zhang Jing, Liu Juanxiu, Du Xiaohui, Liu Lin	210361
	An automatic detection method for microscopic images using attention mechanism was proposed. This method improved the original DETR architecture by introducing a split-transform-merge mechanism.	
	High stability PGC demodulation technique for fiber-optic interferometric sensor Xiao Wenzhe, Cheng Jing, Zhang Dawei, Kong Yong, Ye Hualong, He Jun	210368
	An improved PGC demodulation algorithm with single-path differential divide and the differential-self-multiplication (PGC-SDD-DSM) demodulation algorithm was proposed.	
	Real-time object detection for UAV images based on improved YOLOv5s	210372
	Chen Xu, Peng Dongliang, Gu Yu	
	As unmanned aerial vehicle (UAV) image has the characteristics of complex background, high resolution, and large scale differences between targets, a real-time detection algorithm named as YOLOv5sm+ was proposed.	