

中国医学物理学杂志

CHINESE JOURNAL OF MEDICAL PHYSICS

月刊 1984年创刊 2025年9月25日第42卷第9期(总第266期)



主管

南方医科大学

主办

南方医科大学
中国医学物理学会

编辑

《中国医学物理学杂志》编委会

主编

胡逸民

编辑部主任

黄开颜

出版

《中国医学物理学杂志》编辑部

通讯地址

广州市同和南方医科大学
生物医学工程学院
电话:020-61648280
传真:020-61360581
邮编:510515
网址:www.cjomp.com
E-mail:YXWL@263.net.cn
微信号:cjomp001

印刷

佛山市金华彩印刷有限公司

国内订阅

全国各地邮政局
邮发代号:46-259

国外订阅

中国出版对外贸易总公司
(北京782信箱)

国外发行代号

DK44009

邮购

《中国医学物理学杂志》编辑部

定价

每册15.00元;全年180.00元

中国标准连续出版物号

ISSN 1005-202X
CN 44-1351/R

目次

医学放射物理

儿童髓母细胞瘤质子治疗现状和展望

……范家瑜,魏煊霓,李晨曦,王泽如,黄晓延,黄思娟,陈媛媛,杨鑫(1121)

一种新型测量瓦里安碳纤维 Exact IGRT Couch HU 值的方法及临床应用

……王广善,张同梅,邢彦,牛亦婷,金见悦(1130)

医学影像物理

一种基于 MDC-DCRN 模型的低剂量 CT 图像去噪方法

……陈红池,翟莹,李秋霞,李坊佐(1136)

基于扩散张量成像定量分析预测植物状态患者预后

……叶思敏,钟海鹞,梁杞梅,黄曦妍,王思训,黄靖(1147)

基于超声图像特征对甲状腺乳头状癌喉返神经侵犯的危险因素分析

……郭佩欣,计宏媛,刘志,何超颖(1153)

一种面向脉象图语义分割的改进 DeepLabv3+ 算法

……莽林榕,陈兆学(1159)

双低扫描技术联合迭代重建算法在急性脑梗死患者 CTP 检查中的应用

……马国强,郭丽,胡玮,杜玥蒙(1169)

面向糖尿病视网膜病变分级的多层特征关注增强网络

……梁冰雪,王文婧,王皓祺,关权,秦玉华(1174)

医学信号处理与医学仪器

基于格拉姆角场与并行 KConvNeXt 的采样系统异常压力检测

……张祺,肖伸平,聂立波,彭远刚,宋永波(1184)

基于穿戴式多生理信号的抑郁智能检测

……曹轲鸣,赵璐璐,赵鸣晖,王子宁,李建清,刘澄玉(1191)

吸烟成瘾的脑电研究进展

……董芳,李晓健,徐艳红,薛婷,喻大华(1197)

针对心磁信号的 HISSA 优化多模态协同降噪算法

……薛栋超,朱俊杰(1201)

具有可调高精度的多模式经颅电刺激设备设计王祖榛,王雨欣,宁晓琳(1212)
阵发性房颤信号的稳定性分析与识别刘松,刘东晖,蒙庆华,贺德华(1221)

医学人工智能

基于裂隙灯图像区域图像块的角膜炎自动诊断方法
.....蒋杰伟,丁科,冯洋阳,辛宇,巩稼民,李中文(1229)
半监督学习模型在反流性食管炎 Los Angeles 分级中的应用赵航,徐晓丹,朱锦舟(1236)
三维深度网络结合迁移学习的房颤患者冠脉 CTA 术前分类
.....陈炜,辛梓睿,陈砾,刘振江,罗爱静(1245)
基于时空数据分析的深度学习慢性疼痛智能评估方法郑锐,王翠玲(1255)

责任编辑:陈丽霞

责任校对:黄开颜 谭斯允 薛泽玲

英语校对:谭斯允

编 务:廖艳玲

期刊基本参数:CN44-1351/R * 1984 * M * A4 * 144 * zh * P * ¥ 15.0 * 800 * 18 * 2025-09

Responsible Institution

Southern Medical University

Sponsored by

Southern Medical University
Chinese Society of Medical Physics

Edited by

Editorial Board of Chinese
Journal of Medical Physics

Editor-in-Chief

HU Yimin

Editorial Director

HUANG Kaiyan

Published by

Editorial Department of Chinese
Journal of Medical Physics

Address

School of Biomedical Engineering,
Southern Medical University,
Tonghe, Guangzhou
Postal code: 510515
Tel: 86-20-61648280
Fax: 020-61360581
Http://www.cjomp.com
E-mail: YXWL@263.net.cn
Wechat: cjomp001

Printed by

Printed by Foshan Jinhuacai
Printing Co., Ltd

Domestic Subscription

Post offices all over China
Post office subscription code:
46-259

Overseas Subscription

China National Publishing
Industry Trading Corporation
(P.O.Box. 782, Beijing, China)

Mail Order

Editorial Department of Chinese
Journal of Medical Physics

China Standard Serial Numbering

ISSN 1005-202X
CN 44-1351/R

CONTENTS

Medical radiation physics

Application status and future prospects of proton therapy for pediatric medulloblastoma
.....(1121)

FAN Jiayu, WEI Xuanni, LI Chenxi, WANG Zeru, HUANG Xiaoyan, HUANG Sijuan,
CHEN Yuanyuan, YANG Xin

A novel method of measuring the HU value of Varian carbon fiber Exact IGRT Couch and its clinical
application(1130)

WANG Guangshan, ZHANG Tongmei, XING Yan, NIU Yiting, JIN Jianyue

Medical imaging physics

A denoising method for low-dose CT images based on MDC-DCRN model(1136)

CHEN Hongchi, ZHAI Ying, LI Qiuxia, LI Fangzuo

Prognostic prediction of patients in vegetative state based on quantitative analysis of diffusion tensor
imaging(1147)

YE Simin, ZHONG Haili, LIANG Qimei, HUANG Xiyan, WANG Sixun, HUANG Jing

Risk factor analysis of recurrent laryngeal nerve invasion in papillary thyroid carcinoma based on
ultrasound image characteristics(1153)

GUO Peixin, JI Hongyuan, LIU Zhi, HE Chaoying

An improved DeepLabv3+ algorithm for semantic segmentation of pulse diagrams(1159)

MANG Linrong, CHEN Zhaoxue

Application of dual-low scanning technology combined with iterative reconstruction algorithm in
CTP examination of patients with acute cerebral infarction(1169)

MA Guoqiang, GUO Li, HU Wei, DU Yuemeng

Multi-layer feature attention enhanced network for diabetic retinopathy staging(1174)

LIANG Bingxue, WANG Wenjing, WANG Haoqi, GUAN Quan, QIN Yuhua

Medical signal processing and medical devices

Anomalous pressure detection in sampling systems based on Gramian angular field and parallel
KConvNeXt(1184)

ZHANG Qi, XIAO Shenping, NIE Libo, PENG Yuangang, SONG Yongbo

Intelligent depression detection based on multi-physiological signals acquired by wearable devices
.....(1191)

CAO Keming, ZHAO Lulu, ZHAO Minghui, WANG Zining, LI Jianqing, LIU Chengyu

Advances in EEG research on smoking addiction(1197)

DONG Fang, LI Xiaojian, XU Yanhong, XUE Ting, YU Dahua

HSSA-optimized multi-level cooperative denoising algorithm for magnetocardiogram signals
.....(1201)

XUE Dongchao, ZHU Junjie

Design of a multimodal transcranial electrical stimulation device with adjustable high precision
.....(1212)

WANG Zuzhen, WANG Yuxin, NING Xiaolin

Stability analysis and recognition of paroxysmal atrial fibrillation signals(1221)
LIU Song, LIU Donghui, MENG Qinghua, HE Dehua

Medical artificial intelligence

Automatic diagnosis method for keratitis based on regional image patches from slit-lamp images(1229)
JIANG Jiewei, DING Ke, FENG Yangyang, XIN Yu, GONG Jiamin, LI Zhongwen

Application of semi-supervised learning models in the Los Angeles grading of reflux esophagitis(1236)
ZHAO Hang, XU Xiaodan, ZHU Jinzhou

Three-dimensional deep neural network integrating transfer learning for preoperative coronary CTA classification in atrial fibrillation patients
.....(1245)
CHEN Wei, XIN Zirui, CHEN Xi, LIU Zhenjiang, LUO Aijing

A deep learning method for intelligent chronic pain assessment based on spatiotemporal data analysis(1255)
ZHENG Rui, WANG Cuiling

Executive Editor: CHEN Lixia

Executive Proofreaders: HUANG Kaiyan TAN Siyun XUE Zeling

English Editor: TAN Siyun

Editorial Assistant: LIAO Yanling