

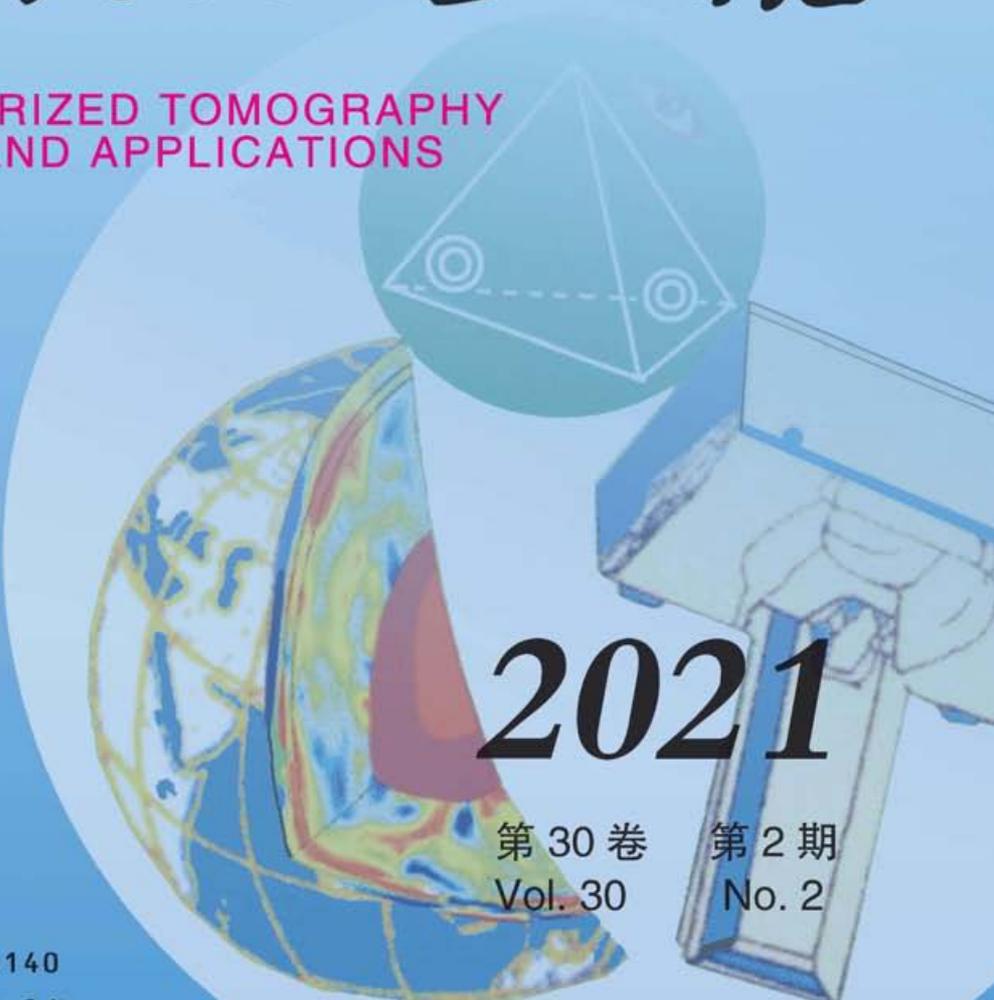
·中国科技核心期刊·

ISSN 1004-4140

CN 11-3017/P

CT 理论与应用研究

COMPUTERIZED TOMOGRAPHY
THEORY AND APPLICATIONS



2021

第30卷

第2期

Vol. 30

No. 2

ISSN 1004-4140



中国地震局地球物理研究所
同方威视技术股份有限公司

主办

CT 理论与应用研究

目次 (2021 年 4 月 第 30 卷 第 2 期)

•理论与方法•

海洋单阶次表面多次波分离方法研究…叶月明, 任浩然, 徐志诚, 李立胜, 王力宝, 杨存 (139)

•地球物理 CT•

基于 VMD 的随掘地震超前探测信号谱白化方法研究……………
……………计子琦, 张学强, 张海江, 查华胜, 梅欢, 程婷婷 (148)

•工业 CT•

山普拉墓地出土眼珠的结构工艺研究……………张雪雁, 郭金龙, 成倩, 王博, 雷勇 (161)
动载作用下混凝土细观损伤的 CT 图像分割和灰度共生矩阵特征值研究……………
……………丁卫华, 朱琳, 黄力, 张乐, 秦俊绒, 李爱国 (170)

•医学成像与图像分析•

小肠袢聚集对预测腹膜假粘液瘤患者小肠系膜挛缩的 CT 价值研究……………
……………贾红敏, 翟喜超, 王志群, 卫宏江 (183)
外周性原始神经外胚层肿瘤的 CT 表现分析……………
……………孙朋涛, 都雪朝, 孙小丽, 魏海亮, 赵桐, 孙莹, 王仁贵 (192)
COVID-19 患者胸部 CT 表现特点及其演变规律……………
……………沈晶, 于晶, 鄢英男, 桑亚荣, 鞠蓉晖, 潘龙, 李桂泽, 李欣, 伍建林 (199)

•能谱 CT•

双能量 CT 虚拟单能量成像在鉴别脊柱急慢性压缩骨折中的应用价值……………
……………孔玲玲, 徐驰杰, 赵旻月, 邓小毅 (209)

•医学 CT•

CT 检查在 2019 新型冠状病毒疫情中的作用……………谢靓, 吕双志 (217)
CT 定量分析在新型冠状病毒肺炎诊断中的价值…舒意, 钟林泽, 曹力波, 白红利, 孙家瑜 (225)
基于 AI 的胸部 CT 平扫对冠脉钙化积分的准确性评价……………
……………陈杰, 孙会利, 张焕, 崔斌, 郭超, 吴筱音, 郭宁, 王志群 (234)
4D-DECT 对甲状旁腺腺瘤的诊断价值…高帅, 赵腾, 顾华, 蒋涛, 李晖, 李新月, 魏伯俊 (244)

•综述•

能谱 CT 在肝脏富血供病变中的应用和研究进展……………彭佳璇, 江广斌, 姜伦 (253)
CT 解析重建方法进展: 从圆轨迹扫描到多源直线扫描成像……………
……………陈昶羽, 高河伟, 张涛, 邢宇翔, 张丽, 陈志强 (263)

责任编辑: 毛国敏 编辑: 蒋知瑞

期刊基本参数: CN 11-3017/P*1992*b*16*140*zh+en*P*¥ 30.00*1000*14*2021-04*n

CT Theory and Applications (CTTA)

CONTENTS (Vo1. 30 No. 2 Apr. , 2021)

•CT Theory•

Separation of Single Order Marine Surface-related Multiples.....
.....YE Yueming, REN Haoran, XU Zhicheng, (139)

•Geotomography•

Research on Spectral Whitening Method of Seismic While Drilling Ahead Detection Signals
Based on VMD.....
.....JI Ziqi, ZHANG Xueqiang, ZHANG Haijiang, ZHA Huasheng, MEI Huan, CHENG Tingting (148)

•Industrial CT•

Study on the Manufacture Technical of Eye Beads Unearthed from Sampula Cemetery.....
.....ZHANG Xueyan, GUO Jinlong, CHENG Qian, WANG Bo, LEI Yong (161)

Study on Concrete Mesoscopic Damage Under Dynamic Loading Using CT Image
Segmentation and Gray Level Co-occurrence Matrix Eigenvalue.....
.....DING Weihua, ZHU Lin, HUANG Li, ZHANG Le, QIN Junrong, LI Aiguo (170)

• Medical Imaging and Image Processing•

CT Value Study of Small Intestinal Loop Aggregation in Predicting Mesenteric Contracture in
Patients with Pseudomyxoma Peritonei.....
.....JIA Hongmin, ZHAI Xichao, WANG Zhiqun, WEI Hongjiang (183)

CT Features Analysis of Peripheral Primitive Neuroectodermal Tumor.....
.....SUN Pengtao, DU Xuechao, SUN Xiaoli, WEI Hailiang, ZHAO Tong, SUN Ying, WANG Rengui (192)

Chest CT Features of COVID-19 and Its Evolution.....SHEN Jing,
YU Jing, YAN Yingnan, SANG Yarong, JU Ronghui, PAN Long, LI Guize, LI Xin, WU Jianlin (199)

• Spectral CT•

The Application Value of Dual-energy CT Virtual Monoenergetic Imaging in the Differential
Diagnosis of acute and Chronic Spinal Compression Fractures.....
.....KONG Lingling, XU Chijie, ZHAO Minyue, DENG Xiaoyi (209)

•Medical CT•

The Role of CT Examination in 2019 New Coronavirus Epidemic.....XIE Jing, LV Shuangzhi (217)

The Value of CT Quantitative Analysis in the Diagnosis of COVID-19.....
.....SHU Yi, ZHONG Linze, CAO Libo, BAI Hongli, SUN Jiayu (225)

Accuracy Evaluation of Coronary Artery Calcification Score Based on AI chest CT Plain Scan.....
.....CHEN Jie, SUN Huili, ZHANG Huan, CUI Bin, GUO Chao, WU Xiaoyin, GUO Ning, WANG Zhiqun (234)

The Value of Four-dimensional Dual Energy CT on Diagnosis of Parathyroid Adenoma.....
.....GAO Shuai, ZHAO Teng, GU Hua, JIANG Tao, LI Hui, LI Xinyue, WEI Bojun (244)

• Review•

Application and Research Progress of Spectral CT in Hypervascular Hepatic Lesions.....
.....PENG Jiaxuan, JIANG Guangbing, JIANG Lun (253)

Progress on Analytical CT Reconstruction Methods: From Circular Trajectory Scanning to
Multi-source Linear Trajectory Scanning Imaging.....
.....CHEN Changyu, GAO Hewei, ZHANG Tao, XING Yuxiang, ZHANG Li, CHEN Zhiqiang (263)