

·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
Vol. 30

第1期
No. 1

ISSN 1004-4140



9 771004 414216

02>

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 2 月 第 30 卷 第 1 期)

•理论与方法•

- 基于 WDCT 网络的混凝土 CT 图像增强算法..... 石常荣, 肖永顺, 李俊江, 侯钦瀚, 彭文举 (1)
川西新场裂隙储层波场模拟与分析..... 刘俊州, 郝洪鉴, 韩磊, 梁锴, 王震宇, 陈斯宇 (9)

•地球物理 CT•

- SNMR 联合 SP 用于滑动带水体赋存状态的探测研究..... 潘剑伟, 张成丽, 鲁恺, 洪涛, 唐辉明, 张兵, 李振宇 (23)
基于地震多属性融合的断层识别与评价——以塔里木盆地 SHB 地区碳酸盐岩缝洞型储层为例..... 王晨光, 蔺学曼, 周显华, 王磊, 沈金松, 苏朝阳 (35)
电震联合法在涪陵裂隙溶洞调查中的应用研究..... 郭淑君, 朱继良, 王春辉, 任政委, 明圆圆, 李梦 (49)

•工业 CT•

- 基于参考组分的双能 CT 成像方法..... 王文杰, 陈平, 潘晋孝, 李毅红 (61)
基于多能谱 CT 与 NC-POCS 重建算法的泡沫铝孔隙率计算..... 乔鹏刚, 魏交统, 潘晋孝 (71)

•医学成像与图像分析•

- CT 和检验指标对浸润倾向肺腺癌的诊断模型建立..... 黄国, 蒋蓓蓓, 解学乾, 陆惠良, 高晓龙 (81)
回顾性心电门控下双低剂量支气管动脉 CTA 的应用研究..... 林观生, 董昔山, 马周鹏, 王龙停 (91)
基于 CTA 的大脑前循环动脉形态学与前交通动脉瘤相关性分析..... 朱林, 张敏, 许小伍, 陆志前, 汪素红 (99)
基于人工智能技术的非门控胸部 CT 平扫对冠状动脉钙化积分的准确性评价..... 孙会利, 陈杰, 张焕, 崔斌, 郭超, 吴筱音, 郭宁, 王志群 (106)

•医学 CT•

- 成人肝脏未分化胚胎性肉瘤影像学表现..... 邱淦滨, 廖伟雄, 温中炎, 陈锦灿 (114)
多层螺旋 CT 对结肠癌淋巴结转移的诊断价值..... 冯莉, 陈伟彬, 李盖, 周伟 (124)
心外膜脂肪组织体积和定量 CT 腰椎骨密度及其下腰痛相关性研究..... 程海平, 彭宙锋, 李亮, 曾菲菲, 查云飞 (131)

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*2021-02*n

万方数据

CT Theory and Applications (CTTA)

CONTENTS (Vol. 30 No. 1 Feb., 2021)

•CT Theory•

- An Enhancement Algorithm for Concrete Imaging Based on WDCT Network.....
.....SHI Changrong, XIAO Yongshun, LI Junjiang, HOU Qinhan, PENG Wenju (1)
Wave Field Simulation and Analysis of Fracture Reservoir in Xinchang, Western Sichuan.....
.....LIU Junzhou, HAO Hongjian, HAN Lei, LIAO Kai, WANG Zhenyu, CHEN Siyu (9)

•Geotomography•

- The Combined Use of Surface Nuclear Magnetic Resonance and Self-potential in the Research
of Groundwater State in the Landslide.....
....PAN Jianwei, ZHANG Chengli, LU Kai, HONG Tao, TANG Huiming, ZHANG Bin, LI Zhenyu (23)
Fault Detection and Evaluation Based on Fusion of Multiple Seismic Attributes——An
Example of Fractured and Vuggy Carbonate Formation in SHB Area, Tarimu Basin....
....WANG Chenguang, LIN Xuemin, ZHOU Xianhua, WANG Lei, SHEN Jinsong, SU Zhaoyang (35)
Study on the Joint Application of Electrical and Seismic Exploration in the Investigation of
Fissure and Karst Cave in Fuling Area.....
....GUO Shujun, ZHU Jiliang, WANG Chunhui, REN Zhengwei, MING Yuanyuan, LI Meng (49)

•Industrial CT•

- Dual-energy CT Imaging Method Based on Reference Components.....
.....WANG Wenjie, CHEN Ping, PAN Jinxiao, LI Yihong (61)
Calculation of Aluminum Foam Porosity Based on Multi-spectrum CT and NC-POCS
Reconstruction Algorithm.....QIAO Penggang, WEI Jiaotong, PAN Jinxiao (71)

•Medical Imaging and Image Processing•

- Establishment of a Diagnostic Model for Lung Adenocarcinoma with Invasive Tendency by CT and
Laboratory Indexes.....HUANG Guo, JIANG Beibei, XIE Xueqian, LU Huiliang, GAO Xiaodong (81)
Applicative Study of Double Low Dose Combined with Retrospective ECG Gating in
Bronchial Artery CT Angiography.....LIN Guansheng, DONG Xishan, MA Zhoupeng, WANG Longting (91)
Correlation Analysis of Anterior Cerebral Circulation Artery Morphology and Anterior
Communicating Artery Aneurysm Based on CTA.....ZHU Lin, ZHANG Min, XU Xiaowu, LU Zhiqian, WANG Suhong (99)
Accuracy Evaluation of Coronary Artery Calcification Score by Non Gated Chest CT Scan
Based on Artificial Intelligence Technology.....SUN Huili, CHEN Jie, ZHANG Huan, CUI Bin, GUO Chao, WU Xiaoyin, GUO Ning, WANG Zhiqun (106)

•Medical CT•

- Imaging Findings of Undifferentiated Embryonal Sarcoma of the Liver in Adults.....
.....QIU Ganbin, LIAO Weixiong, WEN Zhongyan, CHEN Jincan (114)
The Diagnostic Value of Multislice Spiral CT in Lymph Node Metastasis of Colon Cancer.....
.....FENG Li, CHEN Weibin, LI Gai, ZHOU Wei (124)
Study on the Correlation between the Volume of Epicardial Adipose Tissue and Lumbar Bone
Mineral Density.....CHENG Haiping, PENG Zhoufeng, LI Liang, ZENG Feifei, ZHA Yunfei (131)