

·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



2019

第 28 卷

第 1 期

Vol. 28

No. 1

ISSN 1004-4140



中国地震局地球物理研究所 主办  
同方威视技术股份有限公司

# CT 理论与应用研究

目次 (2019 年 2 月 第 28 卷 第 1 期)

## • 综述 •

口腔锥形束 CT 剂量评估模式的研究现状……贾淑梅, 郑钧正, 张丽, 高河伟, 邢宇翔 (1)

## • 理论与方法 •

基于最小二乘逆时偏移的声反射成像测井模拟……邹强, 黄建平, 刘定进, 魏巍, 郭旭 (13)

多原发肺癌的 CT 表现与患者预后相关性研究……  
……张文超, 李靖煦, 关玉宝, 杨新官, 夏亭亭, 张利怡, 陈烨颖, 董骁 (29)

## • 医学成像与图像分析 •

计算机辅助检测低剂量 CT 早期肺癌筛查可行性研究……  
……刘丽君, 郝粉娥, 孙振婷, 孟令新, 杨振兴, 赵磊 (39)

MSCT 对成年人下颌神经管的测量分析……董相宇, 方挺松, 王科, 袁健祥, 柯祺 (45)

膝股关节软骨损伤与关节轴线角相关性研究……  
……焦嫣, 张丹, 李高阳, 李桂萍, 吴薇娜 (53)

## • 能谱 CT •

能谱 CT 单能量结合 ASiR 技术对腹部静脉成像质量的优化研究……  
……王伟新, 张秋奂, 郭鹏德, 何飞飞, 刘明, 李杰, 陈正光 (61)

双低剂量联合迭代重建在不同 BMI 患者 CTA 的应用……侯羽宇, 李绍东, 郭莉莉 (73)

亚实性肺腺癌能谱 CT 虚拟平扫效果的研究……  
……韩仙俊, 贺文, 陈疆红, 赵丽琴, 刘佳宝, 曹佳鑫 (81)

## • 地球物理 CT •

露天煤矿地下水电磁探测与类型判别……王鹏, 兰云飞 (91)

用于陆上宽频地震采集的设备及应用实例……吕淑英, 刘胜 (99)

## • 医学 CT •

个性化低剂量螺旋 CT 扫描在胸腰椎外伤检查中的应用……  
……祝华强, 罗东梅, 曹丽, 梁明莉, 游蕊, 吴炳云 (111)

联合多种高分辨 CT 征象对肺内孤立结节良恶性鉴别诊断价值……白少君 (121)

卵巢恶性生殖细胞肿瘤的 MRI 诊断……施冬辉, 冯峰 (129)

MCTSI 联合 D-D 评估急性胰腺炎患者临床预后的可行性分析……方芳, 谭伟, 胡少平 (139)

坐骨股骨撞击综合征的 MRI 表现……邢千超, 王胜林, 仇恒志, 白雪冬, 曹宏伟 (147)

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\*154\*zh+en\*P\*¥30.00\*1000\*16\*2019-02\*n  
万方数据

# *CT Theory and Applications (CTTA)*

CONTENTS (Vo1. 28 No. 1 Feb., 2019)

## •Review•

- Status of Study in Dental Cone Beam Computed Tomography Dose Estimation Modes.....  
.....JIA Shumei, ZHENG Junzheng, ZHANG Li, GAO Hewei, XING Yuxiang (1)

## •CT Theory•

- Modeling of Acoustic Reflection Imaging Logging Based on Least-square Reverse Time Migration.....ZOU Qiang, HUANG Jianping, LIU Dingjin, WEI Wei, GUO Xu (13)
- Correlation between CT Features and Patient's Prognosis of Multiple Primary Lung Cancer...  
.....ZHANG Wenchao, LI Jingxu,  
GUAN Yubao, YANG Xinguan, XIA Tingting, ZHANG Liyi, CHEN Yeying, DONG Xiao (29)

## • Medical Imaging and Image Processing •

- Computer-aided Detection Low-dose CT for Early Lung Cancer Screening: A Feasibility Study...LIU Lijun, HAO Fen'e, SUN Zhenting, MENG Lingxin, YANG Zhenxing, ZHAO Lei (39)
- The Measurement of Adult Mandibular Neural Tube by MSCT.....DONG Xiangyu, FANG Tingsong, WANG Ke, YUAN Jianxiang, KE Qi (45)
- Study on the Relationship between Cartilage Injury of Knee Tibiofemoral Joint and Joint Axis Angle.....JIAO Yan, ZHANG Dan, LI Gaoyang, LI Guiping, WU Weina (53)

## • Spectral CT •

- The Evaluation of Imaging Quality of Abdominal Vein by Combining Spectral CT Optimal Monotromatic Imaging and ASiR Technique.....  
...WANG Weixin, ZHANG Qiujuan, GUO Pengde, HE Feifei, LIU Ming, LI Jie, CHEN Zhengguang (61)
- Low Contrast Dose and Low Tube Voltage Combined with Adaptive Iterative Reconstruction in Abdominal CT Angiography in Patients with Different BMI.....  
.....HOU Yuyu, LI Shaodong, GOU Lili (73)
- Study of Energy Spectrum CT Virtual Non-contrast in Subsolid Lung Adenocarcinoma...  
.....HAN Xianjun, HE Wen, CHEN Jianghong, ZHAO Liqin, LIU Jiabao, CAO Jiabin (81)

## •Geotomography•

- Electromagnetic Detection and Classification of Underground Water in Open Pit Coal Mines...  
.....WANG Peng, LAN Yunfe (91)
- Land Equipment for Broadband Seismic Data Acquisition and the Application.....  
.....LV Shuying, LIU Sheng (99)

## •Medical CT•

- Application of Personalized Low Dose Spiral CT Scanning in the Examination of Thoracolumbar Trauma.....  
.....ZHU Huaqiang, LUO Dongmei, CAO Li, LIANG Mingli, YOU Rui, WU Bingyu (111)
- The Value of Multiple Image Signs on High Resolution CT in Differential Diagnosis between Benign and Malignant Solitary Pulmonary Nodules.....BAI Shaojun (121)
- MRI Diagnosis of Ovarian Malignant Germ Cell Tumors.....SHI Donghui, FENG Feng (129)
- Feasibility Analysis of MCTSI Combined with D-dimmer in Evaluating the Clinical Prognosis of Patients with Acute Pancreatitis.....FANG Fang, TAN Wei, HU Shaoping (139)
- The MRI Findings of Ischiofemoral Impingement Syndrome.....  
.....XING Qianchao, WANG Shenglin, QIU Hengzhi, BAI Xuedong, CAO Hongwei (147)