

地 球 科 学

2024 年 5 月 第 49 卷 第 5 期

目 次

• 工程地质学与灾害地质学 •

不同滑坡样本点和多边形表达模式下的易发性评价

..... 邓明东, 巨能攀, 吴天伟, 文 艳, 解明礼, 赵伟华, 何佳阳(1565)

基于知识图谱的滑坡易发性评价文献综述及研究进展 郭 飞, 赖 鹏, 黄发明, 刘磊磊, 王秀娟, 何政宇(1584)

考虑机器学习建模中训练/测试集时空划分原则的滑坡易发性预测建模

..... 黄发明, 欧阳慰平, 蒋水华, 范宣梅, 连志鹏, 周创兵(1607)

考虑非滑坡样本选取和集成机器学习方法的水库滑坡易发性预测

..... 王 悦, 曹 颖, 许方党, 周 超, 余蓝冰, 吴立星, 汪 洋, 殷坤龙(1619)

基于迁移成分分析的库岸跨区域滑坡易发性评价

..... 苏 燕, 黄绍翔, 赖晓鹤, 陈耀鑫, 杨凌黎, 林 川, 谢秀栋, 黄 斌(1636)

基于卷积神经网络的滑坡易发性评价: 以辽南仙人洞国家级自然保护区为例

..... 郑德凤, 高 敏, 闫成林, 李媛媛, 年廷凯(1654)

考虑注意力机制的新型深度学习模型预测滑坡位移 郭子正, 杨玉飞, 何 俊, 黄 达(1665)

暴雨及水位骤降条件下渗流参数空间变异的水库滑坡概率分析

..... 蒋水华, 熊 威, 朱光源, 黄卓涛, 林 列, 黄发明(1679)

Verhulst反函数预测模型的改进及滑坡时间概率预测 陈铭熙, 陶培捷, 周创兵, 姜清辉(1692)

基于改进 PSO-RBF 神经网络的三维边坡可靠度分析 彭宗桓, 盛建龙, 叶祖洋, 袁乾峰(1706)

TBM 破岩关键参数跨工程转换关系 李海波, 李 旭, 王双敬, 陈祖煜, 荆留杰(1722)

基于时序 InSAR 与机器学习的大范围地面沉降预测方法 罗祎沅, 许 强, 蒋亚楠, 孟 冉, 蒲川豪(1736)

基于卷积神经网络的土体含水率智能识别 庞元恩, 王智诚, 李 旭, 杜赛朝(1746)

• 矿物学·岩石学·矿床学 •

松辽盆地东南缘卡伦湖地区上白垩统泉头组地球化学特征、碎屑锆石年龄与物源分析

..... 李 彤, 俞初安, 王铁军, 殷栋法, 司庆红, 朱 强, 文思博, 涂家润(1759)

东昆仑哈日扎-那更康切尔银矿区花岗岩年代学、地球化学及岩石成因

..... 马忠元, 柴佳兴, 张爱奎, 燕正君, 张金阳(1778)

鄂尔多斯盆地西南缘中下侏罗统地层物源及构造演化对铀成矿的制约

..... 俞初安, 李 彤, 杨桐旭, 赵华雷, 涂家润, 胡永兴, 唐永香(1793)

• 能源地质学 •

应力加载对花岗岩粗糙裂隙渗透率影响规律 那 金, 谢康路, 袁可涵, 袁益龙(1810)

渤中凹陷孔店组致密砂砾岩微裂缝形成机制及影响因素

..... 王清斌, 臧春艳, 万 琳, 潘文静, 刘晓健, 李新琦, 周 淋(1821)

渤海湾盆地辽中凹陷南洼超压发育特征及成因 王冰洁, 王德英, 郭 涛, 王 鑫, 惠冠洲, 薛明旺(1832)

燕山地区中-新元古界烃源岩地球化学特征及油源对比

..... 孙中良, 陈 媛, 李志明, 申宝剑, 祝庆敏, 贾梦瑶, 吴 琰(1844)

琼东南盆地天然气水合物地震识别与饱和度预测 邓 勇(1865)

• 环境地质学与水文地质学 •

基于 SWAT 模型的珠江流域地下水资源评价 赵良杰, 王 莹, 周 妍, 曹建文, 杨 杨, 王 喆(1876)

人类活动对木里冻土区水文环境影响的多元同位素示踪

..... 邢剑伟, 李小倩, 周爱国, 庞守吉, 李 鑫, 余迎祥(1891)

寒旱区内陆河流域碳通量年际变化控制机制 王同红, 王旭峰, 张松林, 谭俊磊, 张 阳, 任志国, 白雪洁(1907)

固氮鱼腥藻介导 As(III) 氧化及其对铵氮输入的响应 钟兆洪, 谢作明, 毛 青, 赵欣鑫, 刘太坤(1920)

• 其他 •

《地球科学》2024 年 6 月第 49 卷第 6 期要目预告 (1758)

主编 王焰新

责任编辑 散飞雪

期刊基本参数: CN 42—1874/P * 1957 * m * A4 * 366 * zh * P * ¥ 50.00 * 1200 * 25 * 2024—05

封面照片: 锦屏一级水电站库区高山峡谷地形(邓明东提供)

EARTH SCIENCE

Vol.49 No.5 May 2024

CONTENTS

• Engineering Geology and Disaster Geology •

- Evaluation of Susceptibility under Different Landslide Sample Points and Polygonal Expression Modes
..... *Deng Mingdong, Ju Nengpan, Wu Tianwei, Wen Yan, Xie Mingli, Zhao Weihua, He Jiayang* (1565)
- Literature Review and Research Progress of Landslide Susceptibility Mapping Based on Knowledge Graph
..... *Guo Fei, Lai Peng, Huang Faming, Liu Leilei, Wang Xiujuan, He Zhengyu* (1584)
- Landslide Susceptibility Prediction Considering Spatio-Temporal Division Principle of Training/Testing Datasets in Machine Learning Models *Huang Faming, Ouyang Weiping, Jiang Shuihua, Fan Xuanmei, Lian Zhipeng, Zhou Chuangbing* (1607)
- Reservoir Landslide Susceptibility Prediction Considering Non-Landslide Sampling and Ensemble Machine Learning Methods
..... *Wang Yue, Cao Ying, Xu Fangdang, Zhou Chao, Yu Lanbing, Wu Lixing, Wang Yang, Yin Kunlong* (1619)
- Evaluation of Trans-Regional Landslide Susceptibility of Reservoir Bank Based on Transfer Component Analysis
..... *Su Yan, Huang Shaoxiang, Lai Xiaohe, Chen Yaoxin, Yang Lingjun, Lin Chuan, Xie Xiudong, Huang Bin* (1636)
- Susceptibility Assessment of Landslides Based on Convolutional Neural Network Model: A Case Study from Xianrendong National Nature Reserve in Southern Liaoning Province *Zheng Defeng, Gao Min, Yan Chenglin, Li Yuanyuan, Nian Tingkai* (1654)
- Landslide Displacement Prediction Based on a Deep Learning Model Considering the Attention Mechanism
..... *Guo Zizheng, Yang Yufei, He Jun, Huang Da* (1665)
- Probabilistic Analysis of Reservoir Landslides Considering the Spatial Variation of Seepage Parameters under the Conditions of Rainstorm and Sudden Drop of Water Level *Jiang Shuihua, Xiong Wei, Zhu Guangyuan, Huang Zhuotao, Lin Lie, Huang Faming* (1679)
- Model Modification of Verhulst Inverse-Function Forecasting Model and Probabilistic Forecast for Landslide Failure Time
..... *Chen Mingxi, Tao Peijie, Zhou Chuangbing, Jiang Qinghui* (1692)
- 3D Slope Reliability Analysis Based on Improved PSO-RBF Neural Network
..... *Peng Zonghuan, Sheng Jianlong, Ye Zuyang, Yuan Qianfeng* (1706)
- Cross Project Conversion Relationship of Key Parameters of TBM Rock Breaking
..... *Li Haibo, Li Xu, Wang Shuangjing, Chen Zuyu, Jing Liuji* (1722)
- The Prediction Method of Large-Scale Land Subsidence Based on Multi-Temporal InSAR and Machine Learning
..... *Luo Huiyuan, Xu Qiang, Jiang Yanan, Meng Ran, Pu Chuanhao* (1736)
- Moisture Content Recognition Model of Unsaturated Soil Based on Convolutional Neural Networks
..... *Pang Yuanen, Wang Zhicheng, Li Xu, Du Saizhao* (1746)

• Mineralogy-Petrology-Mineral Deposits •

- Geochemical Characteristics, Detrital Zircon Age and Provenance Analysis of Upper Cretaceous Quantou Formation in Kalun Lake Area, Southeast Margin of Songliao Basin *Li Tong, Yu Reng'an, Wang Tiejun, Yin Dongfa, Si Qinghong, Zhu Qiang, Wen Sibo, Tu Jiarun* (1759)
- Geochronology, Geochemistry and Petrogenesis of the Harizha-Nagengkangqier Granites in the East Kunlun Orogen
..... *Ma Zhongyuan, Chai Jiaying, Zhang Aikui, Yan Zhengjun, Zhang Jinyang* (1778)
- Provenance and Tectonic Evolution of the Middle and Lower Jurassic Strata Constraints on the Uranium Mineralization in Southwest Margin of Ordos Basin *Yu Reng'an, Li Tong, Yang Tongxu, Zhao Hualei, Tu Jiarun, Hu Yongxing, Tang Yongxiang* (1793)

• Energy Geology •

- Effect of Stress Loading on Permeability of Granite Rough Fissure *Na Jin, Xie Kanglu, Yuan Kehan, Yuan Yilong* (1810)
- Formation Mechanism and Influencing Factors of Micro-Fractures in Tight Glutenite of Kongdian Formation in Bozhong Sag
..... *Wang Qingbin, Zang Chunyan, Wan Lin, Pan Wenjing, Liu Xiaojian, Li Xinqi, Zhou Lin* (1821)
- Development Characteristics and Origin of Overpressure in South of Liaozhong Depression, Bohai Bay Basin
..... *Wang Bingjie, Wang Deying, Guo Tao, Wang Xin, Hui Guanzhou, Xue Mingwang* (1832)
- Geochemical Characteristics of the Meso-Neoproterozoic Source Rocks and Oil-Source Correlations in the Yanshan Area
..... *Sun Zhongliang, Chen Yuan, Li Zhiming, Shen Baojian, Zhu Qingmin, Jia Mengyao, Wu Yan* (1844)
- Seismic Identification and Saturation Prediction of Natural Gas Hydrate in the Qiongdongnan Basin *Deng Yong* (1865)

• Environmental Geology and Hydrogeology •

- Groundwater Resources Evaluation in the Pearl River Basin Based on SWAT Model
..... *Zhao Liangjie, Wang Ying, Zhou Yan, Cao Jianwen, Yang Yang, Wang Zhe* (1876)
- Multi-Isotope Tracing of the Impact of Human Activities on the Hydrological Environment in the Muli Permafrost Region
..... *Xing Jianwei, Li Xiaoqian, Zhou Aiguo, Pang Shouji, Li Xin, Yu Yingxiang* (1891)
- Interannual Change Control Mechanism of Carbon Flux in Inland River Basins in Cold and Arid Regions
..... *Wang Tonghong, Wang Xufeng, Zhang Songlin, Tan Junlei, Zhang Yang, Ren Zhiguo, Bai Xuejie* (1907)
- Nitrogen-Fixing *Anabaena* sp. Mediated As(III) Oxidation and Its Response to Ammonium Input
..... *Zhong Zhaoqi, Xie Zuoming, Mao Qing, Zhao Xinxin, Liu Taikun* (1920)