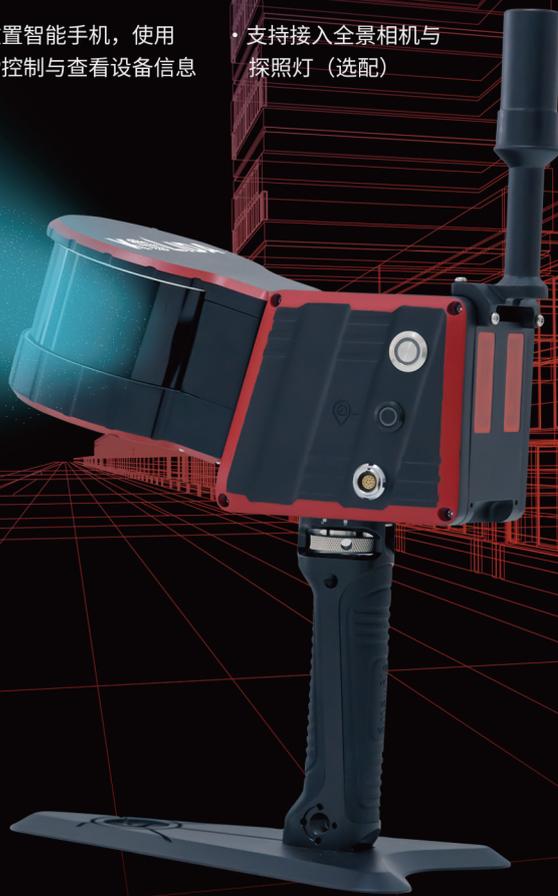


挥挥手 亿点云

SLAM-K120 手持三维激光扫描仪

- SLAM移动扫描技术，所至即所得
- 360°x 285°视场角
- 支持拓展背包作业模式
- 16线激光，扫描频率可达32万点/s
- 标靶点测量
- 可放置智能手机，使用APP控制与查看设备信息
- 全星多频GNSS板卡
- 4 h作业时长
- 支持接入全景相机与探照灯（选配）



KOLIDA 科力达

地址：广州市天河区思成路39号地理信息产业园8楼 邮箱：kolida@163.com
电话：020-22131700 传真：020-22131709 网址：www.kolida.com.cn



测绘与空间地理信息

主管：黑龙江测绘地理信息局

主办：黑龙江省测绘地理信息学会

出版：《测绘与空间地理信息》编辑部

发行：全国各地邮局（所）及本刊编辑部

全国优秀测绘期刊

《中国核心期刊（遴选）数据库》收录期刊

中国学术期刊综合评价数据库统计源期刊

《CAJ-CD规范》执行优秀期刊

中国期刊全文数据库全文收录期刊

2023 5

（月刊）

Vol.46 No.5

支撑自然资源管理

服务生态文明建设

目次

2023年第5期(总第46卷第289期)

博士园地

- 基于SURF算法的雪地图像特征提取与配准
..... 曹先革,杨金玲,万伟,等(1)
- “新工科”背景下测绘专业教师科教协同策略
..... 冯微微,邹滨,马慧云,等(5)
- 基于微服务架构的自然资源综合监测平台构建研究
..... 徐德军,钟美(9)
- 1990年以来太原市主城区空间扩张特征研究
..... 孟万忠,王聪慧,李易诚(13)

基金项目专栏

- 双中央子午线的独立坐标系构建方法研究
..... 江秀明,唐世豪,杨洋,等(17)
- 基于两步移动搜索法的昆明市五华区义务教育资源可达性评价
..... 易俊华,许泉立,王霄,等(21)
- 中国东北植被生长峰值时空变化及可持续性分析
..... 张瑞欣,李付全,周玉科,等(25)
- 无人机多光谱影像土地利用信息提取方法研究
..... 白阳,王雷(29)
- 机载激光点云单木分割方法对比及精度分析
..... 张丽,王健,曲相屹,等(34)
- 基于Sentinel-2A时序谐波分析的山区林草资源遥感自动分类
..... 谢婕,张涛,朱长明,等(38)
- 基于PS-InSAR的深圳市地表形变监测研究
..... 张君怡,刘俊杰,陈丹洁,等(43)
- 基于GIS和区间直觉模糊集的铁路线网规划评价
..... 李然,谭衢霖,王春波,等(47)
- 基于WebGIS的雷达遮蔽角分析系统开发及应用
..... 李乾乾,郭黎,刘贺,等(55)

- 石家庄市新冠肺炎疫情演变特征及时空聚集性分析
..... 董卓明,冯明皓,王彦芳(59)
- 基于变化检测的地理国情监测数据更新研究
..... 杨锦,李梦梦(63)
- 基于北斗的土地及环境在线监测系统设计与实现
..... 王震,潘宇明,丁乐乐,等(67)
- 孪生高分辨率卷积神经网络遥感影像变化检测方法
..... 王晓雯,戴晨光,张振超,等(70)
- 基于轴线法和POI数据双重视角的城市空间协调性研究
..... 张灵捷,朱江洪(74)
- 生态服务价值与景观格局演变关系研究
——以松花江(哈尔滨段)为例
..... 邹佳群,王楠,石佳佳,等(78)

3S技术与应用

- 基于改进U-Net的典型地物要素提取
..... 马随阳,余永周,望曹俊杰(82)
- 测绘地理信息领域大数据治理体系研究
..... 邓伟,王婷婷,李鹏程,等(86)
- CORS在区域GNSS控制测量中的应用分析
..... 张鹏飞,李旺民,李秀龙(90)
- “天地图·江苏”精细电子地图建设方案研究
..... 周宇晨(93)
- 软件定义在地理空间大数据构建中的关键技术研究与应用
..... 张好贤,刘福江,陈志勇,等(96)
- RBF神经网络在GPS高程拟合中的应用与精度分析
..... 丁凯,王泽林(100)
- 基于遥感影像的耕地“非农化”“非粮化”监测方法探索
..... 祝存伟,陈洋,孙利云,等(104)
- 基于线上线下一体化的移动旅游信息服务研究
..... 刘树林(108)

| | |
|--|--|
| 基于RS的九峰山历史遗留矿区土地覆被动态变化及驱动力分析 武 强,李喜平,任娟慧,等(111) | 旧城改造建筑物立面快速提取及规划设计方法研究 黄维腾(167) |
| 高职院校测绘专业课程改革初探 孟 瑶,杨 娜,李春燕,等(115) | 基于无人机蜂群影像的实景沙盘快速构建研究 甘麟露,刘天漪,赵 君(169) |
| 基于北斗RTK的安卓管网GIS系统开发 周百泰,孟凡效,潘宇明,等(117) | 基于LMD-LSTM的大坝变形预测研究 徐笑笑,李 冰,邹聪聪(173) |
| 基于Sentinel-2影像的河流湖泊遥感提取 徐 娜,项超超(120) | 海上风电场地形地貌探测 袁 超(177) |
| 基于GPS与GLONASS信噪比反演海平面高度研究 周秀一,王井利(124) | 征地勘测定界要点分析及难点研究 侯惟原,张李军(180) |
| 基于移动GIS的自然资源巡查和执法管理平台设计与实现 顾陈浩(128) | 使用FME实现数字地形图数学精度的自动统计 甘迎娟,张 博(183) |
| 无人机倾斜摄影测量在房地一体化测绘中的应用研究 孙佳龙(131) | 空地一体三维建模技术在崩塌点调查中的应用 梁四么,杨海成,伦更永,等(186) |
| 基于GPS-水准联合监测技术的特大跨径桥梁控制测量研究 孙 伟(135) | 基于Gauss-Newton迭代法的拟合圆柱面方法研究 秦 锋,张振虎,张 威(189) |
| 地理国情监测与水土流失土地利用分类共享研究 蒲莉莉,黄晓东(140) | 车载激光扫描技术在园林绿化普查工作中的应用 施莎帅(194) |
| 土地资源“一张图”数据库管理系统建设研究 孙曼曼,朱 波(146) | 浅析基于全站仪坐标法测量建筑物外立面的方法 任宝玉,李小伟(196) |
| 测绘工程 | |
| 基于JXCORS的GNSS-RTK检定方法研究及结果分析 付宁波,钟世彬,赵忠海(149) | 基于GF-7立体影像的南极1:10 000比例尺3D产品生产研究 齐忠华,刘沼辉,杨柏宇(199) |
| 基于移动车载激光扫描系统的大比例尺地形图成果质量检验 许 鹏,李丰翔,杨春光(152) | 基于数据密集型范式的制图综合难点解决模式 梁景东(202) |
| 一种基坑支护桩(墙)顶水平位移监测方法应用研究 厉 风,智慧渊,高金铭(156) | 3ds Max在校园建模中的应用 宗秀文,黄昭军(206) |
| 机载雷达测绘技术在大坝沉降分析中的应用——以XL水电站为例 黄劲风(159) | 无人测量船河道断面测绘技术研究 江 勇,陈丽娜,陈 梁,等(209) |
| 基于ESMD的去噪算法在高速铁路沉降监测数据中的应用 何 鹏,武思源,罗 超,等(162) | 基于ArcGIS软件的小比例尺地形图信息提取方法研究 沈 雯,曹佳敏(213) |
| | 基于三维激光扫描技术的基坑滑坡监测方法研究 吕树春(216) |
| | 煤矿延深区岩移观测方案设计与沉降分析 李鹏程(219) |
| | 基于三维激光扫描技术的建筑物倾斜度观测方法研究 马彦凤(222) |

Doctor Column

Feature Extraction and Registration of Snow Covered Image Based on SURF Algorithm

..... CAO Xiange, YANG Jinling, WAN Wei, et al.(1)

Research-Teaching Synergetic Strategy of Surveying and Mapping Teachers under the Background of "Emerging Engineering"

..... FENG Huihui, ZOU Bin, MA Huiyun, et al.(5)

Research on the Construction of Natural Resources Comprehensive Monitoring Platform Based on Micro-service Architecture

..... XU Dejun, ZHONG Mei(9)

Study on the Characteristics of Spatial Expansion in the Main Urban Area of Taiyuan City Since 1990

..... MENG Wanzhong, WANG Conghui, LI Yicheng(13)

Fund Projects Column

Research on Independent Coordinate System Construction Method of Double Central Meridians

..... JIANG Xiuming, TANG Shihao, YANG Yang, et al.(17)

Accessibility Analysis of Compulsory Education Resources in Wuhua District of Kunming City Based on Two-step Floating Catchment Area Method

..... YI Junhua, XU Quanli, WANG Xiao, et al.(21)

Analysis of Spatiotemporal Variation of Vegetation Growth Peak and Sustainability in Northeast China

..... ZHANG Ruixin, LI Fuquan, ZHOU Yuke, et al.(25)

Research on Extraction Method of Land Use Information from UAV Multi-spectral Image

..... BAI Yang, WANG Lei(29)

Comparison and Accuracy Analysis of Airborne Laser Point Cloud Individual Tree Segmentation Methods

..... ZHANG Li, WANG Jian, QU Xiangyi, et al.(34)

Forest and Grass Resources Automatic Classification in Mountainous Areas Based on Sentinel-2A Time Series Harmonic Analysis

..... XIE Jie, ZHANG Tao, ZHU Changming, et al.(38)

Monitoring of Ground Deformation in Shenzhen Based on PS-InSAR Technology

..... ZHANG Junyi, LIU Junjie, CHEN Danjie, et al.(43)

Evaluation of Railway Network Planning Based on GIS and Interval Intuitionistic Fuzzy Set

..... LI Ran, TAN Qulin, WANG Chunbo, et al.(47)

Development and Application of Radar Shielding Angle Analysis System Based on WebGIS

..... LI Qianqian, GUO Li, LIU He, et al.(55)

Analysis on the Evolution Characteristics and Spatio-temporal Clustering of COVID-19 in Shijiazhuang City

..... DONG Zhuoming, FENG Minghao, WANG Yanfang(59)

Research on Data Update of Geographic National Conditions Monitoring Based on Change Detection

..... YANG Jin, LI Mengmeng(63)

Design and Implementation of Land and Environment Online Monitoring System Based on Beidou

..... WANG Zhen, PAN Yuming, DING Lele, et al.(67)

Siamese High-resolution Convolutional Neural Network Remote Sensing Image Change Detection Method

... WANG Xiaowen, DAICHENGUANG, ZHANG ZHENCHAO, et al.(70)

Research on Urban Spatial Optimization Based on Axis Method and POI Data

..... ZHANG Lingjie, ZHU Jianghong(74)

Study on the Relationship between Ecological Service Value and Landscape Pattern Evolution:

Take Songhua River (Harbin Section) as an Example

..... ZOU Jiaqun, WANG Nan, SHI Jiajia, et al.(78)

3S Technology and Its Application

Extraction of Typical Features Based on Improved U-Net

..... MA Suiyang, YU Yongzhou, WANG Caojunjie(82)

Study on Big Data Governance System in Surveying and Mapping Geography

..... DENG Wei, WANG Tingting, LI Pengcheng, et al.(86)

Application Analysis of CORS in Regional GNSS Control Survey

..... ZHANG Pengfei, LI Wangmin, LI Xiulong(90)

Research on the Construction of Fine Electronic Map for Map-World of Jiangsu

..... ZHOU Yuchen(93)

Research and Application of Key Technologies of Software Definition in Geospatial Big Data Construction

..... ZHANG Haoxian, LIU Fujiang, CHEN Zhiyong, et al.(96)

Application and Accuracy Analysis of RBF Neural Network in GPS Height Fitting

..... DING Kai, WANG Zelin(100)

Exploration on Monitoring Methods of "Non-agriculturalization" and "Non-grain growing" of Cultivated Land Based on Remote Sensing Images

..... ZHU Cunwei, CHEN Yang, SUN Liyun, et al.(104)

Research on Mobile Tourism Information Service Based on Online and Offline Integration

..... LIU Shulin(108)

- Analysis of Dynamic Changes and Driving Forces of Land Cover in the Historic Mining Area of Jiufeng Mountain Based on RS
 WU Qiang, LI Xiping, REN Juanhui, et al.(111)
- Discussion on Curriculum Reform of Surveying and Mapping Engineering Specialty in Higher Vocational Colleges
 MENG Yao, YANG Na, LI Chunyan, et al.(115)
- Development of Android Pipe Network GIS System Based on BDS RTK Positioning
 ZHOU Baitai, MENG Fanxiao, PAN Yuming, et al.(117)
- Extraction of Rivers and Lakes Based on Sentinel-2 Remote Sensing Images
 XU Na, XIANG Chaochao(120)
- Study on Sea Level Height Inversion Based on GPS and GLONASS Signal-to-Noise Ratio
 ZHOU Xiuyi, WANG Jingli(124)
- Design and Implementation of Natural Resources Inspection and Law Enforcement Management Platform Based on Mobile GIS
 GU Chenhao(128)
- Research on the Application of UAV Tilt Photogrammetry in the Integrated Surveying and Mapping of Real Estate and Land
 SUN Jialong(131)
- Research on Control Survey of Large Span Bridge Based on GPS-leveling Combination Monitoring Technology
 SUN Wei(135)
- Research on the Sharing of Geographical National Conditions Monitoring and Land Use Classification of Soil Erosion
 PU Lili, HUANG Xiaodong(140)
- Research on the Construction of "One Map" Database Management System of Land Resources
 SUN Manman, ZHU Bo(146)
- S/M Engineering**
- Research and Analysis of GNSS-RTK Verification Method Based on JXCORS
 FU Ningbo, ZHONG Shibin, ZHAO Zhonghai(149)
- Quality Inspection of Large-scale Topographic Map Based on Mobile Vehicle Laser Scanning System
 XU Peng, LI Fengxiang, YANG Chunguang(152)
- Application Study of Monitoring Method for the Top Horizontal Displacement of Supporting Pile Foundation Pit (Wall)
 LI Feng, ZHI Huiyuan, GAO Jinming(156)
- Application of Airborne LiDAR Mapping Technology in Dam Settlement Analysis:
 Take XL Hydropower Station as an Example
 HUANG Jinfeng(159)
- Application of Denoising Algorithm Based on ESMD in High-Speed Railway Settlement Monitoring Data
 HE Peng, WU Siyuan, LUO Chao, et al.(162)
- Research on Rapid Extraction and Planning and Design Methods of Building Facades in Urban Redevelopment
 HUANG Weiteng(167)
- Rapid Reconstruction of Real Scene Sand Table Based on Droneswarm Images
 GAN Linlu, LIU Tianyi, ZHAO Jun(169)
- Research on Dam Deformation Prediction Based on LMD-LSTM
 XU Xiaoxiao, LI Bing, ZOU Congcong(173)
- Topographic and Geomorphological Survey of Offshore Wind Farms
 YUAN Chao(177)
- Analysis of Key Points and Difficult Points on Survey and Demarcation Technology in the Land Acquisition
 HOU Weiyuan, ZHANG Lijun(180)
- Automatic Statistics of Mathematical Accuracy of Digital Topographic Maps by Using FME
 GAN Yingjuan, ZHANG Bo(183)
- Application of 3D Modeling Technology of Air-ground Integration in the Investigation of Collapse Disaster
 LIANG Siyao, YANG Haicheng, LUN Gengyong, et al.(186)
- Research on Fitting Cylindrical Surface Based on Gauss-Newton Iterative Method
 QIN Feng, ZHANG Zhenhu, ZHANG Wei(189)
- Application of Vehicle Borne Laser Scanning Technology in General Survey of Landscaping
 SHI Shashuai(194)
- Study on the Method of Measuring Building Facade Based on Total Station Coordinate Method
 REN Baoyu, LI Xiaowei(196)
- Research on the Production of Antarctica 1: 10 000 Scale 3D Products Based on GF-7 Stereo Images
 QI Zhonghua, LIU Zhaohui, YANG Boyu(199)
- Solution Model of Difficult Points in Cartographic Generalization Based on Data Intensive Paradigm
 LIANG Jingdong(202)
- Application of 3ds Max in Campus Modeling
 ZONG Xiuwen, HUANG Zhaojun(206)
- Research on Riverway Cross Section Survey Technology by Unmanned Ship
 JIANG Yong, CHEN Lina, CHEN Liang, et al.(209)
- Research on Information Extraction Method of Small Scale Topographic Maps Based on ArcGIS Software
 SHEN Wen, CAO Jiamin(213)
- Research on Monitoring Method of Foundation Pit Landslide Based on 3D Laser Scanning Technology
 LYU Shuchun(216)
- Scheme Design and Settlement Analysis of Rock Movement Observation in Coal Mine Deepening Area
 LI Pengcheng(219)
- Research on Observation Method of Building Inclination Based on 3D Laser Scanning Technology
 MA Yanfeng(222)

8848.86m

珠
穆
朗
玛
峰

最新高度



刊号：ISSN 1672-5867
CN 23-1520/P

广告经营许可证号：230103100219498
邮发代号：14-5 定价：28.00元/期

ISSN 1672-5867



9 771672 586239