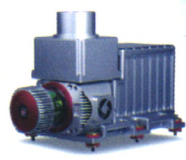




天地任纵横

- 多平台——同时满足汽车、飞机、船舶等多平台搭载，且拆装灵活快速
- 高集成——激光扫描仪、惯性导航系统、全景相机等多部件高度集成
- 高精度——2 CM
- 长测程——920 M



SZT-R1000

车机载一体化轻型移动测量系统

SOUTH

4007000700
www.southsurvey.com



测绘与空间地理信息

2017 9

(月刊)
Vol.40 No.9

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
 协办：新疆维吾尔自治区基础地理信息中心
 (其他协办单位详见内文)

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

目次

2017年第9期(总第40卷第221期)

博士园地

- 空间构件形位检测方法与技术进展
..... 刘尚国,王 硕,王少同,等(1)
- 《中华人民共和国影像地图》的设计与编制
..... 王鸿燕,余 睿,季毅民,等(6)
- Matlab在多元线性沉降数据处理中的应用
..... 张凯选,马传宁(11)
- 内河数字航道技术总结与展望
..... 李学祥(14)
- 基于GIS平台三维可视化方案设计
——以水污染、旅游为例
..... 任东风,刘 杰,丛晓孺(20)

基金项目专栏

- 面向Web服务的非结构化数据组织方法
..... 郭彤枫,李景文,郭兰博,等(24)
- 区域地质调查路线剖面图加密重建与三维可视化
..... 栗云峰,郭甲腾,周文辉,等(28)
- 面向新浪微博签到数据的时空热点事件检测方法
..... 宁鹏飞,万幼川,任 福(33)
- 基于细粒度人口数据的深圳公园绿地可达性评价
..... 李浪姣,刘江涛,任 福(38)
- GPS卫星精密星历内插方法比较分析
..... 王 涛(44)
- 多GNSS融合伪距单点定位算法及其程序实现
..... 杜文选,刘 扬,耿加伟(47)
- 基于LiDAR的海岛岸线自动提取研究
..... 郑真真,徐爱功,徐辛超(52)
- 基于WebGIS的视频星车流量分析与路况查询系统
..... 夏广申,张正鹏,陈奕帆(56)
- 宗海图编绘要素在AutoCAD中的实现技术方法探讨
..... 乌立国,孙钦帮,王 阳,等(61)

- 基于多级决策树分类的土地利用与覆盖信息提取
..... 陈文娇,翁永玲,路云阁(63)
- 基于NPP-VIIRS夜间灯光数据和Landsat-8数据的
城镇建筑用地提取方法改进
——以广州市为例
..... 唐梁博,崔海山(69)
- 基于GIS的数字校园建设初探
——以贵州大学西校区为例
..... 陈思吉,郝玉珠,贾 青,等(74)
- 多源三维实景集成模式研究
..... 王昀昀,林 丹(76)
- 地理信息系统(GIS)在新发H7N9禽流感防控中的
应用 马 盟,高巧珍,李新楼(79)
- 非测绘类专业测量学实践教材编写浅析
..... 李吉英(82)
- PM_{2.5}土地利用回归模型地理要素的选取
..... 刘 凡,翟 亮,桑会勇(84)
- 新建县城区地下管线综合普查及系统建库
..... 杜坤升,朱煜峰,陈俊铭,等(88)
- GNSS在变形监测中的应用研究
..... 吴玉苗,李 伟,王树东(91)
- 基于FJCORS的高精度定位在国土管理中的应用研究
..... 王伟凡,陈俊明(94)
- 驻村帮扶“一张图”设计与实现
——以明溪县为例
..... 龚知凡,黄素丽(96)
- 计算子午线弧长的三类算法及其分析比较
..... 王元波,杨丽坤,张 洁(99)
- 利用居民地聚类和缓冲区分析完善道路网眼
..... 郭 敏,李 冰,陈华龙,等(103)
- PCA-RBF网络预测模型在水质信息预测中的应用
..... 周艳柳,郭兰博,李景文,等(106)

期刊基本参数: CN23-1520/P * 1978 * M * A4 * 224 * zh * P * ¥28.00 * * 62 * 2017-09

3S 技术与应用

IP-S2车载移动测量系统在数字城管信息系统中的应用 成 功(109)

工业遗址风貌三维景观精细化测绘关键技术研究
..... 文衍宁(114)

机载LiDAR技术在地质灾害监测中的应用研究
..... 康义凯(117)

基于Cityengine平台的CGA规则室内三维建模方法
研究 洪 洲(120)

基于天地图的综合统计地理信息系统的设计与实现
..... 高嘉泽(123)

基于“天地图·永定”的永定旅游地图服务网设计与
实现 饶 文(125)

基于面向对象算法的道路信息提取研究
..... 王 旭,戴激光(128)

“智慧宁波”共享服务平台运维监管系统设计
..... 程晓燕(132)

捷联惯性导航系统算法简化机制
..... 程 敏,吕彦全,厉宽宽(135)

三维瓦片地图的制作及其二三维坐标转换的研究
..... 禹化强,刘 冰,施泽杰,等(139)

武汉市地理国情监测方案部署方法研究
..... 任 杨,答 星,张小惠,等(143)

基于RS和GIS的富平县城镇空间扩张演变规律及
其驱动力分析 马红利(146)

高分辨率遥感影像制作方法创新
..... 赵政坤,马 莉,张 举,等(150)

基于“天地图”平台的农业地理信息系统建设研究
..... 刘小婵(152)

基于基础地理信息地形要素数据规范的DLG自动
入库方法研究
..... 彭春晖,郝思宝,杨秋菊(155)

地理国情普查时点核准影像保障设计与实现
..... 徐 畅,雷 兵,张 涛(158)

3S技术在农村土地承包经营权调查中的应用
..... 闻彩焕,刘永静,刘羽翔,等(162)

基于3S技术的甘肃省农田水利信息管理平台建设
构想 赵海山,党 涛,尚建国(165)

基于ArcGIS建模的基本农田数据库建库方法探讨
..... 吴志娟(169)

基于LM算法的机载LiDAR全波形数据分解研究
..... 彭泊涵,周薇薇(171)

基于DMSP/OLS夜间灯光数据进行提取的实证研究
——以福州为例
..... 刘建良,赵国忱,倪 愿(175)

基于面积比分割的面状水域提取方法研究
..... 王志坚,郇 媛,徐 青(179)

测绘工程

农村土地承包经营权地块面积自动分割的研究
..... 孙瑞敏,方 衍(182)

基于PS-InSAR技术的长春市地面沉降监测研究
..... 陈庆华,白贵峰(185)

因面积计算规范不同引起的建筑面积计算差异分析
..... 何 华,陈善华(187)

建筑物沉降监测方案设计 & 数据处理
..... 乔平玉,梁周雁,邵为真,等(191)

地球重力场参数计算程序的设计与应用
..... 祖 滢,田林亚(194)

WGS-84经纬度转百度平面坐标的离线转换方法研究
..... 彭小婷(196)

测绘型多旋翼无人机系统常见问题及维护优化方法
..... 金昱洋,曲以春,李 帅(201)

基于市县“十三五”基础测绘规划的编制工作研究
..... 李国华,张月珍,王寿利,等(204)

高度城市化地区土地利用变化分析及效益评价
——以深圳市为例
..... 王珍香,黄继先(208)

村庄地籍调查中抵偿高程面的选择方法
..... 宋 臣,张立宝(213)

兰勃特投影在东西向高速铁路中的应用研究
..... 李亚磊,刘 晗(216)

地形三维建模中特殊地物的处理方法
..... 胡阳明,邓兴升(220)

CONTENTS

Sep. 2017 Vol.40 No.9 (Serial No.221)

Doctor Column

Spatial Component Shape and Position Detection Method and Technology Progress

..... LIU Shang-guo, WANG Shuo, WANG Shao-tong, etc.(1)

The Design and Compilation of the Image Map of the People's Republic of China

..... WANG Hong-yan, YU Rui, JI Yi-min, etc.(6)

Matlab Application of Multivariate Linear Settlement Data Processing

..... ZHANG Kai-xuan, MA Chuan-ning(11)

Summary and Prospect of the Technology of Inland Digital Waterway

..... LI Xue-xiang(14)

Design of 3D Visualization Scheme Based on GIS Platform:

Taking Water Pollution and Tourism as an Example

..... REN Dong-feng, LIU Jie, CONG Xiao-ru(20)

Fund Projects Column

An Unstructured Data Organization Method for Web Services

..... GUO Tong-feng, LI Jing-wen, GUO Lan-bo, etc.(24)

Refined Reconstruction and 3D Visualization of Routine Section from Regional Geological Survey

..... LI Yun-feng, GUO Jia-teng, ZHOU Wen-hui, etc.(28)

Sina Weibo for the Data of Time and Space Hot Event Detection Method

..... NING Peng-fei, WAN You-chuan, REN Fu(33)

Using House Level Data to Evaluating Accessibility for Public Parks in Shenzhen

..... LI Lang-jiao, LIU Jiang-tao, REN Fu(38)

Comparative Analysis of GPS Satellite Precise Ephemeris Interpolation Methods

..... WANG Tao(44)

Algorithm and Program Realization of GNSS Multiple System Integration for Pseudorange Single Point Positioning

..... DU Wen-xuan, LIU Yang, GENG Jia-wei(47)

Research on Automatic Extraction of an Island Based on LiDAR

..... ZHENG Zhen-zhen, XU Ai-gong, XU Xin-chao(52)

Traffic Analysis and Road Condition Inquiry System of Video Star Vehicle Based on WebGIS

..... XIA Guang-shen, ZHANG Zheng-peng, CHEN Yi-fan(56)

Discussion on Technical Methods for Cartographic Elements of Parcel Sea Map

..... WU Li-guo, SUN Qin-bang, WANG Yang, etc.(61)

Extraction of Land Use and Land Cover Information Based on Multilevel Decision Tree Classification

..... CHEN Wen-jiao, WENG Yong-ling, LU Yun-ge(63)

Improvement of Urban Construction Land Extraction Method Based on NPP-VIIRS Nighttime Light Data and Landsat-8 Data: A Case Study of Guangzhou City

..... TANG Liang-bo, CUI Hai-shan(69)

Preliminary Study on the Construction of Digital Campus Based on GIS:

Taking West Campus of Guizhou University as an Example

..... CHEN Si-ji, HAO Yu-zhu, JIA Qing, etc.(74)

Research on Integrated Mode of Multi-resource Three-dimensional Real Scene

..... WANG Yun-yun, LIN Dan(76)

The Application of Geographical Information System (GIS) Based on Research in Novel Avian Influenza A (H7N9) Control and Prevention

..... MA Meng, GAO Qiao-zhen, LI Xin-lou(79)

Compilation of Practical Teaching Materials of Surveying for Non-surveying Specialty

..... LI Ji-ying(82)

The Selection of PM_{2.5} LUR Geographical Factors

..... LIU Fan, ZHAI Liang, SANG Hui-yong(84)

The Urban Underground Pipeline Comprehensive Census and System Building in Xinjian Country

..... DU Kun-sheng, ZHU Yu-feng, CHEN Jun-ming, etc.(88)

Research on GNSS Application in Deformation Monitoring

..... WU Yu-miao, LI Wei, WANG Shu-dong(91)

Research on the Application of High Precision Positioning in Land Management Based on FJCORS

..... WANG Wei-fan, CHEN Jun-ming(94)

Design and Implement of One Map of Helping Residency: Taking Mingxi County as an Example

..... GONG Zhi-fan, HUANG Su-li(96)

The Three Kinds of Algorithm for Calculating Meridian Arc Length and Their Analysis and Comparison

..... WANG Yuan-bo, YANG Li-kun, ZHANG Jie(99)

Using Cluster and Buffer Analysis of Settlement to Help the Build of Road Meshes

..... GUO Min, LI Bing, CHEN Hua-long, etc.(103)

Application of PCA-RBF Network Model in Prediction of the Quality of Water Information

..... ZHOU Yan-liu, GUO Lan-bo, LI Jing-wen, etc.(106)

3S Technology and Its Application

IP-S2 Vehicle-mounted Mobile Measurement System in the Application of Digital Urban Management Information System

..... CHENG Gong(109)

Research on the Key Technologies of 3D Landscape Fine Mapping of Industrial Relics WEN Yan-ning(114)

Application of Airborne LiDAR Technology in Geological Disaster Monitoring KANG Yi-kai(117)

Research on Indoor 3D Modeling Method Based on CGA Rule of Cityengine Platform HONG Zhou(120)

The Design and Implementation of the Integrated Statistical Geographic Information System Based on the Map World GAO Jia-ze(123)

Design and Implementation of Yongding Tourist Map Service Website Based on "Map World·Yongding" RAO Wen(125)

Study on Road Information Extraction Based on Object-oriented Algorithm Liaoning University of Engineering and Technology WANG Xu,DAI Ji-guang(128)

Design of Operation Manage System for Sharing Service Platform in NingBo CHENG Xiao-yan(132)

Simplified Algorithm of Strapdown Inertial Navigation System CHENG Min,LV Yan-quan,LI Kuan-kuan(135)

Research on the Production of 3D Tile Map and Its 2D and 3D Coordinate Conversion YU Hua-qiang,LIU Bing,SHI Ze-jie, etc.(139)

Research on Deployment of National Geographical Conditions Monitoring in Wuhan REN Yang,DA Xing,ZHANG Xiao-hui, etc.(143)

The Urban Spatial Expansion and Its Driving Force Analysis with RS and GIS Technology in Fuping MA Hong-li(146)

The Innovative Methods of Making High-resolution Satellite Imagery ZHAO Zheng-kun,MA Li,ZHANG Ju, etc.(150)

Research on the Construction of Agriculture Geographic Information System Based on Map World LIU Xiao-chan(152)

Research on DLG Data Automatic Importing Based on Fundamental Geographic Information Topographic Feature Data Specification PENG Chun-hui,HAO Si-bao,YANG Qiu-ju(155)

Design and Implementation of Satellite Images Coverage in the Standard Point Approval Mission of the Geographic Conditions Census XU Chang,LEI Bing,ZHANG Tao(158)

The Application of 3S Technologies in Rural Land Contractual Management Right Investigation WEN Cai-huan,LIU Yong-jing,LIU Yu-xiang, etc.(162)

Construction of Information Management Platform for Irrigation and Water Conservancy in Gansu Province Based on 3S Technology ZHAO Hai-shan,DANG Tao,SHANG Jian-guo(165)

To Explore the Basic Farmland Database Method Based on ArcGIS Modeling WU Zhi-juan(169)

Research on Full Waveform Airborne Laser Radar Data Decomposition Based on LM Algorithm PENG Bo-han,ZHOU Wei-wei(171)

Overview of Researches Based on Urban Extracting Via DMSP/OLS Night-time Light Data: Taking Fuzhou as an Example LIU Jian-liang,ZHAO Guo-chen,NI Yuan(175)

Water Boundary Extraction Algorithm Based on Area Ratio Segmentation WANG Zhi-jian,LI Yuan,XU Qing(179)

S/M Engineering

Research on Automatic Dividing Area of Cadastral Parcel for the Right to Rural Land Contractual Management SUN Rui-min,FANG Kan(182)

Study on Ground Subsidence Monitoring in Changchun City Based on PS-InSAR Technique CHEN Qing-hua,BAI Gui-feng(185)

The Difference Analysis of Construction Area Calculation Due to the Different Specifications of Area Calculation HE Hua,CHEN Shan-hua(187)

The Schema Design of Building Settlement Observation and Data Processing QIAO Ping-yu,LIANG Zhou-yan,SHAO Wei-zhen, etc.(191)

The Design and Application of Earth's Gravity Field Parameter Calculation Program ZU Ying,TIAN Lin-ya(194)

The Study of Off-line Coordinate Transformation Method for WGS-84 Longitude and Latitude to Baidu Plane Coordinate PENG Xiao-ting(196)

The Common Problems and Maintenance Methods of Multi-Rotor UAV Mapping System JIN Yu-yang,QU Yi-chun,LI Shuai(201)

Study on "13th Five-Year" Basic Surveying and Mapping Planning in City and County LI Guo-hua,ZHANG Yue-zhen,WANG Shou-li, etc.(204)

The Change Analysis and Efficiency Evaluation of Land Use in Highly Urbanized Areas: A Case Study of Shenzhen WANG Zhen-xiang,HUANG Ji-xian(208)

The Selection Method of Compensating Level Surface on Village Cadastral Survey SONG Chen,ZHANG Li-bao(213)

The Research of Lambert Projection in the Application of East-West High-speed Railway LI Ya-lei,LIU Han(216)

The Method of Treating Special Objects in Terrain 3D Modeling HU Yang-ming,DENG Xing-sheng(220)



2017年7月1日起施行

加强测绘管理，促进测绘事业发展，保障测绘事业为经济建设、国防建设、社会发展和生态保护服务，维护国家地理信息安全。



刊号：ISSN 1672-5867
CN 23 - 1520/P
万方数据

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

