



中国·郑州

测绘科学技术学报

# 测绘科学技术学报

Journal of Geomatics Science and Technology

2017

第34卷 第4期  
Vol.34 No.4 2017



- ◎ 中文核心期刊
- ◎ 中国科技核心期刊
- ◎ 中国科学引文数据库 (CSCD) 来源期刊



ISSN 1673-6338



第三十四卷 第四期 二〇一七年

信息工程大学  
INFORMATION ENGINEERING UNIVERSITY

# 目 次

航天器精测数据可视化模型 U-SAM 设计及实现 ..... 张 蕊,李 雷,李广云,王 力,杨再华(331)

北斗 II 载波相位差分定位法在高填方变形监测中的应用  
..... 杜伟飞,张继文,夏 娜,郑建国,于永堂,张慧海(336)

基于信噪比检验的部分奇异值双参数修正估计 ..... 李 豪,顾勇为,郭淑妹(342)

不同经验太阳光压模型对于北斗卫星定轨的适用性分析 ..... 彭汉兵,杨元喜,王 刚(347)

本质矩阵优化分解的相对位姿估计 ..... 张振杰,郝向阳,孙国鹏,程传奇(353)

多个超高阶重力场模型精度分析 ..... 冯进凯,王庆宾,黄佳喜,张 超,范 雕(358)

一种顾及水下地形特点的多波束点云去噪算法..... 冯东恒,石 波,卢秀山,李国玉(364)

基于稀疏判别分析的高光谱影像特征提取 ..... 周亚文,董广军,薛志祥,黎 珂,王惠英(370)

同名点累计分布约束的航空影像线特征匹配 ..... 欧阳欢,范大昭(376)

全局一致性优化的无人机大倾角影像相对定向 ..... 王 一,胡 莘,赵莹芝(382)

多视点相机联合标定及改进的 PMVS 重建方法 ..... 赵漫丹,吴高昌,闫 石,孙国鹏,郝向阳(387)

基于法向量密度聚类的 LiDAR 点云屋顶面提取 ..... 赵 传,张保明,郭海涛,陈小卫(393)

一种改进的快速最小高差 DEM 匹配方法 ..... 陈小卫,岑敏仪,卢 俊,张同刚,张保明(399)

沙漠地区无人机影像连接点提取 ..... 薛 武,张永生,于 英,赵 玲,李 磊(405)

基于 IGG3 的数字工业摄影测量抗差光束法平差 ..... 王俊威,西 勤,冯其强,郭迎钢,向民志(411)

光学遥感成像半实物仿真中坐标系统转换 ..... 李明譞,江刚武,张 锐,张 一(416)

全局收敛 LM 算法优化的机载激光测深信号提取方法  
..... 王丹韵,徐 青,邢 帅,李鹏程,秦剑琪(421)

案例推理的制图综合应用背景与方法..... 何海威,钱海忠,刘 闯,谢丽敏(427)

建构主义理论视域下的地图学理论与地图服务研究 ..... 朵天林(433)

具有前向安全特性的地理目标强盲签名方案 ..... 付晓鹞,付晓峰(436)

副 主 编:张卫强 李广云 值班编辑:陶大欣  
责任编辑:陈四清 王 净 陶大欣 编 务:范培英

## CONTENTS

- Research and Design for Visualization Model U-SAM of Spacecraft Accurate Measurement Data  
 ..... ZHANG Rui, LI Lei, LI Guangyun, WANG Li, YANG Zaihua (331)
- The Application of BDS II Carrier Phase Diff-Positioning Technology for the Deformation Monitoring of High Fill Embankment  
 ..... DU Weifei, ZHANG Jiwen, XIA Na, ZHENG Jianguo, YU Yongtang, ZHANG Huihai (336)
- Partial Singular Value Correction Estimation with Double Parameters Based on Signal-to-Noise Ratio Test  
 ..... LI Hao, GU Yongwei, GUO Shumei (342)
- Application Analysis of Different Empirical Solar Radiation Models for Orbit Determination of BDS Satellites ..... PENG Hanbing, YANG Yuanxi, WANG Gang (347)
- Relative Pose Estimation Based on Improved Essential Matrix Decomposition  
 ..... ZHANG Zhenjie, HAO Xiangyang, SUN Guopeng, CHENG Chuanqi (353)
- The Accuracy Analysis of Multiple Ultra-High-Degree Gravity Field Models  
 ..... FENG Jinkai, WANG Qingbin, HUANG Jiayi, ZHANG Chao, FAN Diao (358)
- A Multi-Beam Point Cloud Denoising Algorithm Considering Underwater Topographic Features  
 ..... FENG Dongheng, SHI Bo, LU Xiushan, LI Guoyu (364)
- Hyperspectral Imagery Feature Extraction Based on Sparse Discriminant Analysis  
 ..... ZHOU Yawen, DONG Guangjun, XUE Zhixiang, LI Ke, WANG Huiying (370)
- Line Matching for Aerial Image Based on Cumulative Distribution Constraint of the Corresponding Points  
 ..... OUYANG Huan, FAN Dazhao (376)
- Unmanned Aerial Vehicle Large Angle Image Relative Orientation Based on Global Consistency Optimization Method ..... WANG Yi, HU Xin, ZHAO Yingzhi (382)
- Joint Multi-View Camera Calibration and Improved PMVS Reconstruction Method  
 ..... ZHAO Mandan, WU Gaochang, YAN Shi, SUN Guopeng, HAO Xiangyang (387)
- Roof Extraction Using LiDAR Point Clouds Based on Normal Vector Density-based Clustering  
 ..... ZHAO Chuan, ZHANG Baoming, GUO Haitao, CHEN Xiaowei (393)
- An Improved Fast DEM Matching Method Based on Least Z-Difference  
 ..... CHEN Xiaowei, CEN Minyi, LU Jun, ZHANG Tonggang, ZHANG Baoming (399)
- Tie Points Extraction of UAV Images in Desert Area  
 ..... XUE Wu, ZHANG Yongsheng, YU Ying, ZHAO Ling, LI Lei (405)
- Robust Bundle Adjustment of Digital Industrial Photogrammetry Based on IGG3  
 ..... WANG Junwei, XI Qin, FENG Qiqiang, GUO Yinggang, XIANG Minzhi (411)
- Coordinate System Transformation in HIL Simulation of Optical Remote Sensing Imaging  
 ..... LI Mingxuan, JIANG Gangwu, ZHANG Rui, ZHANG Yi (416)
- Signal Extraction for Airborne LiDAR Bathymetry Based on Global Convergent Levenberg Marquardt  
 ..... WANG Dandi, XU Qing, XING Shuai, LI Pengcheng, QIN Jianqi (421)
- Application Background and Method of Case Based Reasoning in Cartographic Generalization  
 ..... HE Haiwei, QIAN Haizhong, LIU Chuang, XIE Limin (427)
- Research on Cartography Theory and Map Service from the Perspective of Constructivism  
 ..... DUO Tianlin (433)
- A Strong Blind Signature Scheme of Geographic Target with Forward-Secure Characteristic  
 ... 万方数据 ..... FU Xiaojuan, FU Xiaofeng (436)