

目 次

学术论文

海洋重力场特征统计模型计算与分析

..... 黄谟涛 刘 敏 欧阳永忠 邓凯亮 马越原 翟国君 吴太旗(317)

一种改进的机载激光测深深度偏差模型..... 赵建虎 吴敬文 赵兴磊 周丰年(328)

最优 Tikhonov 正则化矩阵及其在卫星导航定位模糊度解算中的应用..... 边少锋 吴泽民(334)

空域最小二乘法用于重力卫星误差分析..... 肖 云 王云鹏 刘晓刚 许云燕(340)

2013 年芦山 Ms 7.0 级地震断层参数模型反演..... 王乐洋 李海燕 陈汉清(347)

利用改进的动态 PPP 技术建立中国香港区域海潮负荷位移模型

..... 赵 红 郭春喜 程传录 王文利 刘 智 董 波 王建伟(355)

INS 辅助的实时动态 GNSS 单频周跳探测..... 王凌轩 甘 雨 隋立芬 田 源 刘乾坤(364)

一种适用于星载 GPS 自主定轨的地球引力近似计算改进方法..... 龚学文 王甫红(371)

基于中位参数法相关观测的抗差加权整体最小二乘算法

..... 刘春阳 王 坚 王 彬 刘 超 刘纪平(378)

火星探测器精密定轨软件研制及实测数据处理

..... 杨 轩 鄢建国 叶 茂 李 斐 郝卫峰 金炜桐(385)

利用三频数据组合探测不敏感周跳..... 刘 柳 吕志伟 戴 琦 周朋进 贾铮洋(392)

外速度参考条件下的惯导系统快速外阻尼算法..... 查 峰 覃方君 李 峰 叶 斌(398)

利用随机森林回归进行极化 SAR 土壤水分反演

..... 李平湘 刘致曲 杨 杰 孙维东 黎旻懿 任焯仙(405)

非理想航迹城市建筑群 MIMO 下视阵列 SAR 三维仿真..... 刘 辉 徐 青 靳国旺 楼良盛(413)

二维直角建筑物规则化的加权总体最小二乘平差方法..... 李林林 周拥军 周 瑜(422)

利用新型 C 波段雷达卫星研究南伊内里切克冰川运动特征

..... 张晓博 赵学胜 葛大庆 刘 斌(429)

Geohash-Trees:一种用于组织大规模轨迹的自适应索引..... 向隆刚 高 萌 王德浩 龚健雅(436)

土地利用景观格局核心指数提取:以中国广州市为例..... 田 晶 邵世维 黄怡敏 余梦婷(443)

顾及海岸线地理弯曲特征约束的可控分形插值方法..... 江宝得 吴 亮 谢 忠(451)

一种面向空间信息网络的星地协同计算迁移方法

..... 上官博屹 刘 威 乐 鹏 王 密 江 昊 颜哲人(459)

面状实体增量融合过程中拓扑冲突检测及一致性维护方法研究..... 张旗升 王艳慧 刘轩朋(467)

## Contents

Analysis and Calculation of the Statistical Models of Marine Gravity Field Character  
*HUANG Motao LIU Min OUYANG Yongzhong DENG Kailiang MA Yueyuan ZHAI Guojun WU Taiqi* (317)

A Correction Model for Depth Bias in Airborne LiDAR Bathymetry Systems  
..... *ZHAO Jianhu WU Jingwen ZHAO Xinglei ZHOU Fengnian* (328)

Optimal Tikhonov Regularization Matrix and Its Application in GNSS Ambiguity Resolution  
..... *BIAN Shaofeng WU Zemin* (334)

Application of Space-Wise Least Square Method to Error Analysis for Satellite Gravimetry  
..... *XIAO Yun WANG Yunpeng LIU Xiaogang XU Yunyan* (340)

Source Parameters and Slip Distribution Inversion of 2013 Lushan Ms 7.0 Earthquake  
..... *WANG Leyang LI Haiyan CHEN Hanqing* (347)

Estimation of Displacements Caused by Ocean Tide Loading Using Improved GPS Kinematic Precise Point Positioning  
Technique; A Case Study in Hong Kong, China  
*ZHAO Hong GUO Chunxi CHENG Chuanlu WANG Wenli LIU Zhi DONG Bo WANG Jianwei* (355)

INS-Aided Single-Frequency Cycle-Slip Detection for Kinematic GNSS  
..... *WANG Lingxuan GAN Yu SUI Lifan TIAN Yuan LIU Qiankun* (364)

An Improved Approximate Calculation Method of Earth Gravity Suitable for Space-Borne GPS Real-Time Onboard  
Orbit Determination ..... *GONG Xuewen WANG Fuhong* (371)

Robust Weight Total Least Squares Algorithm of Correlated Observation Based on Median Parameter Method  
..... *LIU Chunyang WANG Jian WANG Bin LIU Chao LIU Jiping* (378)

Development of Precise Orbit Determination Software for Mars Probe and Data Processing for MEX  
..... *YANG Xuan YAN Jianguo YE Mao LI Fei HAO Weifeng JIN Weitong* (385)

Using Triple-Frequency Data Combination to Detect Insensitive Cycle-Slip  
..... *LIU Liu LÜ Zhiwei DAI Qi ZHOU Pengjin JIA Zhengyang* (392)

A Fast Damping Algorithm for INS with External Velocity Reference  
..... *ZHA Feng QIN Fangjun LI Feng YE Bin* (398)

Soil Moisture Retrieval of Winter Wheat Fields Based on Random Forest Regression Using Quad-Polarimetric SAR Images  
..... *LI Pingxiang LIU Zhiqun YANG Jie SUN Weidong LI Minyi REN Yexian* (405)

Urban Buildings MIMO Downward-Looking Array SAR 3D Simulation Under Non-ideal Trajectory  
..... *LIU Hui XU Qing JIN Guowang LOU Liangsheng* (413)

A Weighted Total Least Squares Adjustment Method for Building Regularization  
..... *LI Linlin ZHOU Yongjun ZHOU Yu* (422)

Motion Characteristics of the South Inilchek Glacier Derived from New C-Band SAR Satellite  
..... *ZHANG Xiaobo ZHAO Xuesheng GE Daqing LIU Bin* (429)

Geohash-Trees: An Adaptive Index Which can Organize Large-Scale Trajectories  
..... *XIANG Longgang GAO Meng WANG Dehao GONG Jianya* (436)

Towards a Core Set of Landscape Metrics for Land Use: A Case Study from Guangzhou, China  
..... *TIAN Jing SHAO Shiwei HUANG Yimin YU Mengting* (443)

A Controlled Fractal Interpolation Method for Coastline Considering Bending Characteristic Constraints  
..... *JIANG Baode WU Liang XIE Zhong* (451)

An Approach of Spatial Information Network Oriented Satellite-Ground Collaborative Computing Migration  
..... *SHANGGUAN Boyi LIU Wei YUE Peng WANG Mi JIANG Hao YAN Zheren* (459)

Topological Conflict Detection and Consistency Maintenance Method in Process of Area Entities Incremental Integration  
..... *ZHANG Qisheng WANG Yanhui LIU Xuanpeng* (467)