



# 测绘科学技术学报

2013年 第30卷 第5期

JOURNAL OF  
GEOMATICS SCIENCE  
AND TECHNOLOGY

Vol.30 No.5 2013



ISSN 1673-6338



万方数据

信息工程大学



## 目 次

|                                       |                              |
|---------------------------------------|------------------------------|
| 空间数据相似性研究的若干基本问题 .....                | 孙 群(439)                     |
| 处理有色噪声的现代时间序列分析法 .....                | 隋立芬,黄贤源,王 冰(443)             |
| 轨道点线路里程的一种计算方法 .....                  | 郑子天,刘成龙,曹体涛(448)             |
| 水平角和高度角测量值的二维倾斜改正算法 .....             | 李崇辉,郑 勇,张 超,张春虎,郭 谚(452)     |
| 三峡库区垂直形变有限元模拟分析 .....                 | 何婵军,杜志彪(456)                 |
| 利用 GPS/陀螺组合测姿的矩阵卡尔曼滤波算法 .....         | 王 冰,隋立芬,马 成,戚国宾(461)         |
| 机动力建模条件下的 GEO 卫星机动期间定轨 .....          | 郭 睿,李晓杰,周建华,刘 利,黄 勇(465)     |
| 抗差灰色模型及其在卫星钟差预报中的应用 .....             | 宋 倩,韩春好(471)                 |
| 直升机低空航线辅助选择模型研究 .....                 | 赵 鹏,张文诗,孔德领,张立朝,王 超(475)     |
| 多视匹配方法的计算任务分析及其 GPU 并行实现 .....        | 张 丽,汤晓涛,戴晨光,纪 松,胡国军(480)     |
| 一种基于色彩与几何信息的编码标志设计方法 .....            | 王 栋,邢 帅,侯一凡,郭连惠(484)         |
| 机载线阵 CCD 相机的 POS 系统误差自检校 .....        | 刘 军,郭长海,张 莉,王翠欣(489)         |
| SAR 图像机场区域的掩体目标检测方法 .....             | 徐万朋,陈向宁,徐春宇,郝丽娜(494)         |
| 浒苔藻体全生命周期反射光谱特征参量的时间谱趋势分析 .....       | 卢 霞,王春艳,张 薇,李彦辉(500)         |
| 运用分段仿射变换模型拼接分片 TDI CCD 图像 .....       | 孟伟灿,朱迷龙,朱宝山,曹彬才(505)         |
| 基于拓扑及空间相似性的面实体匹配方法研究 .....            | 郑宇志,张青年(510)                 |
| DEM 插值算法的局部地形特征适应性研究 .....            | 付永恒,张锦明,马 民,王成齐(515)         |
| 一种适于地理编码的地址数据规范化方法 .....              | 彭颖霞,吴 升(521)                 |
| 一种基于顶点聚类的线要素简化算法改进 .....              | 李 进,马劲松,沈 婕,杨萌萌,刘 磊(525)     |
| 基于 S-101 的全球多尺度电子航海图调显方法 .....        | 刘灿由,翟京生,张 威,陈 超,朱 颖,牛红光(530) |
| 认识论逆镜模型对 VR 理解及 VGE 构建的启发 .....       | 郭昌达,游 雄(535)                 |
| 专题制图规则及本体表达模型的研究 .....                | 马 健,崔虎平,霍梦秋,冯长强(540)         |
| 基于邻接边二叉树的 DNC 面几何构造算法 .....           | 陈长林,翟京生,陆 毅(545)             |
| 《测绘科学技术学报》入选中国科学引文数据库(CSCD)来源期刊 ..... | (447)                        |
| 《测绘工程》变更月刊公告 .....                    | (544)                        |

副 主 编:张卫强 李广云 司顺奇(专职) 值班编辑:陶大欣  
责任编辑:陶大欣 陈四清 安 敏 编 务:范培英

期刊基本参数: CN 41-1385/P \* 1984 \* b \* A4 \* 112 \* zh \* P \* ¥15.00 \* 3 000 \* 23 \* 2013-10

## CONTENTS

|   |  |
|---|--|
| Research on Some Fundamental Issues of Spatial Data Similarity .....  | SUN Qun(439)   |
| Methods of Processing Colored Noises Based on Modern Time Series Analysis<br>.....  | SUI Lifen, HUANG Xianyuan, WANG Bing(443)                                      |
| A Calculating Method for the Track Point Mileage .....  | ZHENG Zitian, LIU Chenglong, CAO Titao(448)                                    |
| Two-Dimensional Slope Correction Algorithm of Horizontal Angle and Elevation Angle<br>.....                                   | LI Chonghui, ZHENG Yong, ZHANG Chao, ZHANG Chunhu, GUO Yan(452)                |
| Finite Element Simulation and Analysis of Vertical Deformation in the Three Gorges Area<br>.....                              | HE Chanjun, DU Zhibiao(456)  |
| A Matrix Kalman Filter Algorithm for Attitude Estimation Using GPS/Gyro<br>.....  | WANG Bing, SUI Lifen, MA Cheng, QI Guobin(461)                                 |
| Precise Orbit Determination for the GEO Satellite Maneuver Based on the Thrust Force Model<br>.....                           | GUO Rui, LI Xiaojie, ZHOU Jianhua, LIU Li, HUANG Yong(465)                     |
| Robust Gray Model and Its Application in Satellite Clock Predication .....  | SONG Qian, HAN Chunhao(471)  |
| Research on Assisted Selection Model to the Helicopter at Low Altitude Routes<br>.....  | ZHAO Peng, ZHANG Wenshi, KONG Deling, ZHANG Lichao, WANG Chao(475)             |
| Computing Task Analysis of Multi-view Matching Method and GPU Parallel Implementation<br>.....                                | ZHANG Li, TANG Xiaotao, DAI Chenguang, JI Song, HU Guojun(480)                 |
| Design Methodology of Coded Target Based on Color and Geometry Information<br>.....   | WANG Dong, XING Shuai, HOU Yifan, GUO Lianhui(484)                             |
| The Self-calibration of POS Systematic Errors for Airborne Line Array Sensor<br>.....   | LIU Jun, GUO Changhai, ZHANG Li, WANG Cuixin(489)                              |
| SAR Image of Airport Areas Cover Target Detection Method<br>.....   | XU Wanpeng, CHEN Xiangning, XU Chunyu, XI Lina(494)                            |
| Time Spectra Analysis of Reflectance Spectra Characteristic Variables of Enteromorpha Prolifera<br>.....                      | LU Xia, WANG Chunyan, ZHANG Wei, LI Yanhui(500)                                |
| TDI-CCDs Imagery Stitching Using Piecewise Affine Transformation Model<br>.....   | MENG Weican, ZHU Shulong, ZHU Baoshan, CAO Bincai(505)                         |
| An Approach to Identical Areal Entity Matching Based on Topology and Spatial Similarity<br>.....                              | ZHENG Yuzhi, ZHANG Qingnian(510)   |
| Research on DEM Interpolation Algorithm Adaptability with Local Terrain Features<br>.....                                     | FU Yongheng, ZHANG Jinming, MA Min, WANG Chengqi(515)                          |
| A Method of Address Standardization for Geocoding .....   | PENG Yingxia, WU Sheng(521)  |
| Improvements of Linear Features Simplification Algorithm Based on Vertices Clustering<br>.....                                | LI Jin, MA Jingsong, SHEN Jie, YANG Mengmeng, LIU Lei(525)                     |
| A Method of Global Multilevel Electronic Navigational Chart's Displaying Scheduler Based on IHO S-101<br>.....                | LIU Canyou, ZHAI Jingsheng, ZHANG Wei, CHEN Chao, ZHU Ying, NIU Hongguang(530) |
| Understanding of Virtual Reality and the Construction of VGE under the Model of Inverse Mirror<br>Model in Epistemology ..... | GUO Changda, YOU Xiong(535)  |
| The Research of Thematic Mapping Rule and Ontology Representation Models<br>.....   | MA Jian, CUI Huping, HUO Mengqiu, FENG Changqiang(540)                         |
| Construction of DNC Face Geometry Based on Neighbor-Edges Binary Tree<br>.....  | CHEN Changlin, ZHAI Jingsheng, LU Yi(545)                                      |