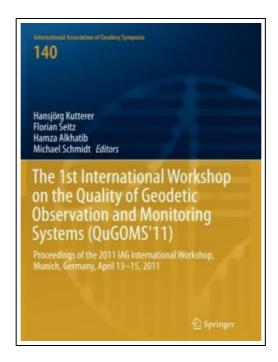
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## THE 1ST INTERNATIONAL WORKSHOP ON THE QUALITY OF GEODETIC OBSERVATION AND MONITORING SYSTEMS (QUGOMS'11)



Condition: New. Publisher/Verlag: Springer, Berlin | Proceedings of the 2011 IAG International Workshop, Munich, Germany April 13-15, 2011 | These proceedings contain 25 papers, which are the peer-reviewed versions of presentations made at the 1 st International Workshop on the Quality of Geodetic Observation and Monitoring (QuGOMS'11), held 13 April to 15 April 2011 in Garching, Germany. The papers were drawn from five sessions which reflected the following topic areas: (1) Uncertainty Modeling of Geodetic Data, (2) Theoretical Studies on Combination Strategies and Parameter Estimation, (3) Recursive State-Space Filtering, (4) Sensor Networks and Multi Sensor Systems in Engineering Geodesy, (5) Multi-Mission Approaches With View to Physical Processes in the Earth System. | Part I Uncertainty modeling of geodetic data.- Modeling Data Quality Using Artificial Neural Networks.- Magic Square of Real Spectral and Time Series Analysis with an Application to Moving Average Processes.- Describing the Quality of Inequality Constrained Estimates.- GNSS Integer Ambiguity Validation Procedures: Sensitivity Analysis.- Optimal Design of Deformation Monitoring Networks Using the Global Optimization Methods.- Part II Theoretical Studies on Combination Strategies and Parameter Estimation.-Towards the Combination of Data Sets from Various Observation Techniques.- On the Weighted Total Least Squares Solutions.- Integration of Observations and Models in a Consistent Least Squares Adjustment Model.- Comparison of Different Combination Strategies Applied for the Computation of Terrestrial Reference Frames and Geodetic Parameter Series.- W-Ratio Test as an Integer Aperture Estimator: Pull-in Regions and Ambiguity Validation Performance.- Performing 3D Similarity Transformation Using the Weighted Total Least-Squares Method.- Comparison of Spatial Analyzer and Different Adjustment Programs. Part III Recursive State-Space Filtering.- State-Space Filtering With Respect to Data Imprecision and Fuzziness.- Unscented Kalman Filter Algorithm with Colored Noise and its Application in Spacecraft Attitude Estimation.- Principles and Comparisons of Various Adaptively Robust Filters with Applications in Geodetic Positioning.- Alternative Nonlinear Filtering Techniques in...

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