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Nota di contenuto	Part I Uncertainty modeling of geodetic data -- 1. Modeling Data Quality Using Artificial Neural Networks -- 2. Magic Square of Real Spectral and Time Series Analysis with an Application to Moving Average Processes -- 3. Describing the Quality of Inequality Constrained Estimates -- 4. GNSS Integer Ambiguity Validation Procedures: Sensitivity Analysis -- 6. Optimal Design of Deformation Monitoring Networks Using the Global Optimization Methods -- Part II Theoretical Studies on Combination Strategies and Parameter Estimation -- 7. Towards the Combination of Data Sets from Various Observation Techniques -- 8. On the Weighted Total Least Squares Solutions -- 9. Integration of Observations and Models in a Consistent Least Squares Adjustment Model -- 10. Comparison of Different

Combination Strategies Applied for the Computation of Terrestrial Reference Frames and Geodetic Parameter Series -- 11. W-Ratio Test as an Integer Aperture Estimator: Pull-in Regions and Ambiguity Validation Performance -- 12. Performing 3D Similarity Transformation Using the Weighted Total Least-Squares Method -- 13. Comparison of Spatial Analyzer and Different Adjustment Programs. Part III Recursive State-Space Filtering -- 14. State-Space Filtering With Respect to Data Imprecision and Fuzziness -- 15. Unscented Kalman Filter Algorithm with Colored Noise and its Application in Spacecraft Attitude Estimation -- 16. Principles and Comparisons of Various Adaptively Robust Filters with Applications in Geodetic Positioning -- 17. Alternative Nonlinear Filtering Techniques in Geodesy for Dual State and Adaptive Parameter Estimation -- Part IV Sensor Networks and Multi Sensor Systems in Engineering Geodesy -- 18. Parametric Modeling of Static and Dynamic Processes in Engineering Geodesy -- 19. Land subsidence in Mahyar plain, Central Iran, studied using SBAS-InSAR Method. 20. Recent Impacts of Sensor Network Technology on Engineering Geodesy -- 21. Design of Artificial Neural Networks for Change-Point Detection. 22. Spatial and Temporal Kinematics of the Inylchek Glacier in Kyrgyzstan Derived From Lands at and ASTER Imagery -- 23. Response Automation in Geodetic Sensor Networks by Means of Bayesian Networks. 24. Efficiency Optimization of Surveying Processes -- 25. Modeling and Propagation of Quality Parameters in Engineering Geodesy Processes in Civil Engineering -- Part V Multi-Mission Approaches With View to Physical Processes in the Earth System -- 26. Completion of band-limited data sets on the sphere.

Sommario/riassunto

These proceedings contain 25 papers, which are the peer-reviewed versions of presentations made at the 1st 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. .