

Some recent developments in geodetic metrology

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Abstract:

In geodetic metrology multi sensor systems, geo sensor networks and kinematic measurement systems are becoming increasingly important since years. From the perspective of engineering geodesy purposes, an overview is given and specifically illustrated with examples of own recent developments at the Institute of Geodesy, University of the Bundeswehr Munich. The development of an automated operating rail inspection car and the loop-based geodetic control of a moving platform will be presented in more details. It can be shown that by new metrological possibilities like laser scanning and laser tracking tasks can be handled in a different way or are in the first solvable, however. Finally the outcomes of this are new application areas for geodetic profession.