

Uncertainty Assessment of High Frequent Laser Distance and Strain Measurements

Werner Lienhart (Austria)

Key words: Engineering survey; uncertainty assessment; laser distance measurements, strain measurements

SUMMARY

High frequent laser measurements are commonly used in laser scanners or distributed fibre optic acoustic sensing (DAS) instruments. However, a reliable assessment of the attainable accuracy is still pending. This contribution discusses different approaches for the empirical quantification and modelling of the uncertainty using laser scanning data of mobile mapping systems (MMS) and DAS data from laboratory setups with dedicated testing devices.

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FIG Congress 2022
Volunteering for the future - Geospatial excellence for a better living
Warsaw, Poland, 11–15 September 2022