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High Density Point Scanning for Precision Metrology

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ABSTRACT

High Density Point Scanning for Precision Metrology

Scanning solutions become more and more accepted in industry. Not only because of the increased need for high density point data but also because computer and software technologies are now able to support point clouds with millions of points.

This presentation introduces a new hand held scanner for gathering high density point data in large measurement volumes. Its performance on surfaces with different reflection coefficients will be described and illustraded with results of several test measurements. The huge amount of measurement data and the nature of none contact measurements increases the complexity of accuracy definition. Therefor this paper presents several methods for describing the accuracy of scanner measurements illustrated by typical measurement results.

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