

Title (en)
METHOD FOR DETERMINING THE QUALITY OF A MEASURING POINT, IN PARTICULAR FOR DETERMINATION OF EDGE LOCATION, AND OPTICAL PRECISION MEASURING DEVICE

Title (de)
VERFAHREN ZUR BESTIMMUNG DER GÜTE EINES MESSPUNKTES, INSBESONDERE BEI DER KANTENORTBESTIMMUNG, SOWIE OPTISCHES PRÄZISIONSMESSGERÄT

Title (fr)
PROCÉDÉ DE DÉTERMINATION DE LA VALEUR D'UN POINT DE MESURE, EN PARTICULIER LORS DE LA DÉTERMINATION DE L'EMPLACEMENT DE CONTOURS, AINSI QU'APPAREIL DE MESURE DE PRÉCISION OPTIQUE

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Application
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Abstract (en)
[origin: WO2008087104A1] The invention relates to a method and a device for determining the quality of a measuring point using image sensors, in particular for the detection of edges for optical length measurement. According to the invention, an optical image is recorded by means of an image sensor, and a measuring signal I with image data I (x,y) for the pixels of the image sensor is detected. Through the evaluation of the image data I (x,y), the location of a measuring point P (x,y) is determined in a sensor coordinate system. Parallel to this, the determination of the quality of the measuring signal I takes place independent of the determination of the location of the measuring point P(x,y), and also the determination of a quality identifier Q_{K} which represents the quality of the measuring signal I at the measuring point P (x,y). Finally, the location data and the quality identifier are consolidated in the sensor coordinate system to define a quality-evaluated measuring point P (x,y, Q_{K}). The method can be used for all coordinate measuring devices which have at least one image sensor as part of the measuring sensors.

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