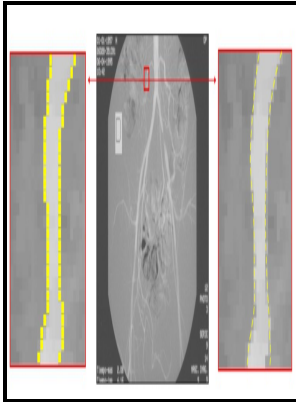# High-speed range estimation based on intensity gradient analysis

Springer-Verlag - (ebook) High

Description: -

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Scheidt, Samuel, -- 1587-1654. -- Congresses.
Image processing.High-speed range estimation based on intensity gradient analysis

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Springer series in perception engineeringHigh-speed range estimation based on intensity gradient analysis
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This edition was published in 1991

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Figure 9.7 from High

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By using intensity gradients, IGA completely avoids the computationally expensive feature extraction and correspondence steps of conventional approaches and is therefore very fast. We will then contact you with the appropriate action.

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Skifstad trades the correspondence problem for the known translational motion by using the fact that it is easier to detect single pixel disparities in a sequence of images rather than arbitrary disparities after two frames. Although many modes of sensing are applicable to this task and have been used, vision remains the most appealing due to its passive nature, good range, and resolution.

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Extensive experimentation has been done using IGA, with a strong emphasis on the issues associated with real-world implementation. Since the IGA algorithm assumes knowledge of camera motion, when a fixed image displacement is perceived, all the parameters needed to determine depth are known. Once you have submitted your order you will receive confirmation and status update emails.

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This approach results in a robust technique for fast estimation of distances to objects in an image using only one translating camera. Once we receive your order we verify it, complete invoicing and prepare your items before we dispatch them from our Sydney warehouse.

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A very attractive feature of this approach is that the computations required to detect single pixel disparities are local and hence can be easily parallelized.

Intensity Gradient Analysis

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