Title (en)
DIGITAL PIXEL-ACCURATE INTENSITY PROCESSING METHOD FOR IMAGE INFORMATION ENHANCEMENT

Title (de)
DIGITALES VERARBEITUNGSVERFAHREN DER BILDELEMENTINTENSITÄT FÜR BILDINFORMATIONSVERBESSERUNG

Title (fr)
PROCEDE DE TRAITEMENT NUMERIQUE DE L'INTENSITE PIXEL PAR PIXEL AMELIORANT LA LISIBILITE DES INFORMATIONS D'IMAGERIE

Publication
EP 0702819 A1 19960327 (EN)

Application
EP 95919731 A 19950308

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- US 9502962 W 19950308

Abstract (en)
[origin: WO9524694A1] Two smoothed images, each processed with a different smoothing factor, can be subtracted providing the information difference between the least smoothed and the most smoothed data set. The smoothing technique of this invention comprises a two-dimensional digital hysteresis filter utilizing a "two-dimensional automatically adjusting variable mask". As a result, the filter is independent of the image size and content and cannot alter the size of any significant intensity features. The two-dimensional hysteresis smoothing technique of this invention calculates the intensity value of smoothed pixels using a set of one-dimensional hysteresis lines at various angles running through each pixel in an image. These one-dimensional hysteresis values are added together and divided by the number of hysteresis lines to get the output value for the pixel. The intensity processing technique provides the basis for a separation of the image information into basic information groups.

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IPC 8 full level
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