



## Edge Detection Methods Based on Generalized Type-2 Fuzzy Logic

By Claudia I. Gonzalez

Springer-Verlag GmbH Mrz 2017, 2017. Buch. Condition: Neu. Neuware - In this book four new methods are proposed. In the first method the generalized type-2 fuzzy logic is combined with the morphological gradient technique. The second method combines the general type-2 fuzzy systems (GT2 FSs) and the Sobel operator; in the third approach the methodology based on Sobel operator and GT2 FSs is improved to be applied on color images. In the fourth approach, we proposed a novel edge detection method where, a digital image is converted a generalized type-2 fuzzy image. In this book it is also included a comparative study of type-1, interval type-2 and generalized type-2 fuzzy systems as tools to enhance edge detection in digital images when used in conjunction with the morphological gradient and the Sobel operator. The proposed generalized type-2 fuzzy edge detection methods were tested with benchmark images and synthetic images, in a grayscale and color format. Another contribution in this book is that the generalized type-2 fuzzy edge detector method is applied in the preprocessing phase of a face recognition system; where the recognition system is based on a monolithic neural network. The aim of this part of the book is to...



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