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### **Fuzzy Algorithms With Applications To**

Fuzzy Algorithms: With Applications to Image Processing and Pattern Recognition (Advances in Fuzzy Systems-Applications and Theory) by Zheru Chi (Author)

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Fuzzy Algorithms: With Applications to Image Processing and Pattern Recognition. <https://doi.org/10.1142/3132> | October 1996. Pages: 240. By (author): Zheru Chi (Hong Kong Polytechnic University, Hong Kong) , Hong Yan (University of Sydney, Australia) and. Tuan Pham (University of Sydney, Australia)

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Thus, the fuzzy c-means algorithm is a variation of the k-means algorithm. It has been widely used in many applications, such as extraction of fuzzy rules [14]. ...

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demonstrating its applications in image authentication. The extended algorithm is called as fuzzy authentication algorithm. It has the ability to localize errors in an image as well as correct the localized errors using error correcting codes. The proposed algorithm rejects only the potentially erroneous / unauthentic parts of the image

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Fuzzy Algorithms: With Applications to Image Processing and Pattern Recognition . 1996. Abstract. No abstract available. Cited By. Segatori A, Marcelloni F and Pedrycz W (2018) On Distributed Fuzzy Decision Trees for Big Data, IEEE Transactions on Fuzzy Systems, 26:1, (174-192), Online publication date: 1-Feb-2018.

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Finally, the fuzzy connectedness provides a binary image of the segmented region. Results are presented in Fig. 7. Download : Download full-size image; Fig. 6. Algorithm used for our application. Download : Download full-size image; Fig. 7. Example of result. On the left, the out of phase image (a).

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## **Real-Life Applications of Fuzzy Logic**

with the Relational Fuzzy C-Means algorithm (RFCM) and showed that RFCMdd is more efficient. Recently Maji and Sankar[13] applied the principles of rough sets, fuzzy sets[15] to the c-medoids algorithm[22] and proposed rough-fuzzy c-medoids algorithm, to select the most informative bio-bases[14] and the amino acid mutation matrix[16] is used in

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In this paper, a modified interval type-2 fuzzy C-means algorithm is proposed with applications to MR image segmentation. Two different values of fuzzifiers ( $m_1$  and  $m_2$ ) are employed to represent and manage uncertainty which occurs when determining the fuzzy degree for clusters with different volume. Furthermore, a spatial constraint is used as a spatial membership function and is blended into the membership function of IT2FCM.

## **A modified interval type-2 fuzzy C-means algorithm with ...**

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Although a fuzzy C-means (FCM) algorithm and its variants (e.g., the FCM\_S, the fast generalized FCM, the fuzzy local information C-means, etc.) can achieve satisfactory segmentation results and...

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