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## An Experimental Research in Health Informatics for Enhancing Ovarian Cancer Identification in Ovarian Imaging Analysis Using Fuzzy Histogram Equalization

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<b></b> Abstract	<b>■</b> References	<b>99</b> Citations	<b>I≣</b> Supplementary Data	<b>e</b> Article Media	<b>∠</b> Metrics	<b>₽</b> Suggestions
Ovarian ca images ar Suppressi presents a proposing Each elem algorithm	ancer is conside e unclear and a on of image no an experimenta g a new fuzzy hi ent of fuzzy se enhances the	ered as one o are contamin vise greatly ho al research in stogram equ t has some n contrast of th	of the major reason of d ated by image noise due elps practitioners for a b health informatics to si alization technique base nembership degree dete ne image by constructing	eath in females. I e to malfunctionin etter advice to th gnificantly improved on the fuzzy ne ermined by S-sha g the fuzzy image	Many times ng of imagir reir patients ve the contr ormalized h ped membe and calcula	, ovarian cancer ng equipment. 5. This research rast of the image by histogram of image. ership function. The ating the fuzzy

the proposed algorithm has been justified over several experiments on different sets of images: (i) MRI images (ii) CT scan images and (iii) ultra-sound images. The algorithm attains a significant enhancement from 20% to 35% in ovarian cancer identification as compared to other conventional image processing solutions.

Keywords: DIGITAL SIGNAL PROCESSING; FUZZY LOGIC; IMAGE ENHANCEMENT; OVARIAN CANCER

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