

Submission 50

Conference

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EasyChair

ICIC 2022 Submission 50


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Submission 50

Title	Follicle Detection Model on Ovarian Ultrasound Image
Paper:	 (Aug 30, 09:02 GMT)
Author keywords	Follicle Principal Components Analysis Support Vector Machine
Abstract	Every woman has two ovaries. Ovaries have several follicles, which consist of oocytes or eggs which are filled with granulosa cells. Some women can have a difference in the number of follicles in each ovary. There are cases of several follicles that are coincided, making it difficult to calculate the number of follicles. In this study, the separation of adjoining follicles and automatic follicle counting was carried out from the results of ovarian ultrasound image segmentation. The segmentation results obtained feature information in the form of follicular feature extraction as many as eight features. The techniques used in this work for feature selection was carried out using Principal Components Analysis (PCA) to reduce the feature. In this study, the PCA and Support Vector Machine (SVM) classifier produced higher accuracy than the classification without PCA. The experimental results also show that the proposed method produced higher classification accuracy than previous work, which yielded 90.39% accuracy, 90.27 % sensitivity, and 90.43 % specificity.
Submitted	Aug 30, 09:02 GMT
Last update	Aug 30, 09:02 GMT

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Reviews

Review 1

*Overall
evaluation*

2: (accept)

the manuscript proposes Follicle Detection Model on Ovarian Ultrasound Image. the authors should consider the following issues:

1. some basic equation, e.g. the accuracy calculation should be moved to intro or method, not in result.
2. section V should be the conclusion I think.
3. need info about the technology used, e.g. programming language, software/hardware used.

Review 2

*Overall
evaluation*

1: (weak accept)

Below are my comments on this paper:

- In the related work section, please make a position of your work compare to those you mentioned.
- Do you have baselines for performance comparison?
- Please do ablation test