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(57) Abstract :

A method for performing a breast abnormality detection is disclosed. The method includes obtaining, by a first plurality of base learner networks, a plurality of common cancer abnormality features from a plurality of source images. The method includes initializing a random weight to each of the first plurality of base learner networks. The method includes updating a plurality of meta parameter weights from the first plurality of base learner networks based on the plurality of random weights, the plurality of tasks, and an inner learning rate. The method includes initializing a second plurality of base learner networks with the plurality of meta parameter weights and a plurality of target images of a breast and a plurality of labels. The method also includes processing the plurality of target images with the plurality of base learner networks upon initialization to detect the breast abnormality in the plurality of target images. {To be published with figure 4}

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