Lecture 5 exercise1 - Segmentation reproducibility test

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The objective is to check the reproducibility of the segmentation results. To evaluate the consistency between the mass masks generated by the mass_segment function you can: 1) Run the segmentation algorithm twice for each mass lesion 2) Compute the Dice index between the two masks 3) Identify the mass example with less reproducible segmentation

1) Run the segmentation algorithm twice for N mass lesions

```
% define the list of images to segment

% Run mass_segment twice for each mass and store the result in a (Si x
 Sj x 2 x N) numeric array

% Define the empty array where to store the (Si x Sj x 2 x N) masks.
% you can use the cat function to concatenate arrays in the 3rd and
 4th
% dimensions.
%

% Check the size of Im_segmented_all
```

2) Compute the Dice index between the two masks

Use the dice function, i.e. similarity = dice(BW1, BW2)

3) Identify the mass example with less reproducible segmentation

Published with MATLAB® R2019a