
```

function [Accuracy, Sensitivity, Fmeasure, Precision, Dice, Jaccard,
Specitivity, AUC] = ImageSegmentationEvaluationScores(A, B)
    % A and B need to be binary images
    % A is the ground truth, B is the segmented result.
    % If A, B are binary images, but uint8 (0, 255),
    % Need to convert to logical images.
    if(isa(A, 'logical'))
        X = A;
    else
        X = imbinarize(A);
    end
    if(isa(B, 'logical'))
        Y = B;
    else
        Y = imbinarize(B);
    end

    % Evaluate TP, TN, FP, FN
    sumindex = X + Y;
    TP = length(find(sumindex == 2));
    TN = length(find(sumindex == 0));
    subtractindex = X - Y;
    FP = length(find(subtractindex == -1));
    FN = length(find(subtractindex == 1));
    Accuracy = (TP+TN)/(FN+FP+TP+TN);
    Sensitivity = TP/(TP+FN);
    Precision = TP/(TP+FP);
    Fmeasure = 2*TP/(2*TP+FP+FN);

    Dice = 2*TP/(2*TP+FP+FN);
    Jaccard = Dice/(2-Dice);
    Specitivity = TN/(TN+FP);
    [tpr,fpr]=roc(X,Y);
    AUC=trapz(tpr,fpr);

end

```

Not enough input arguments.

Error in ImageSegmentationEvaluationScores (line 6)
 if(isa(A, 'logical'))

Published with MATLAB® R2022b