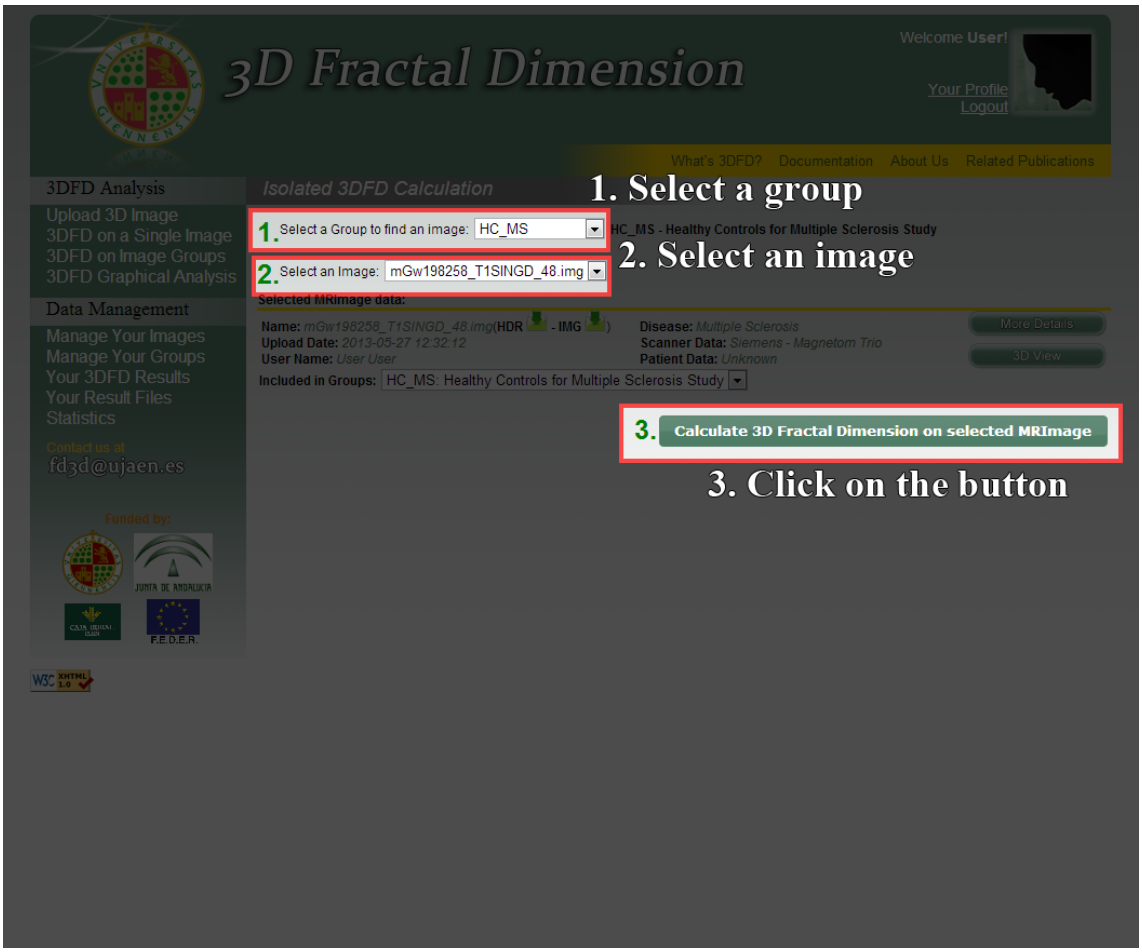
3D Fractal Dimension calculation on a single image:

The user can select one of his uploaded MR Images and calculate the 3D Fractal Dimension on it. Through this option, the user can interactively change the parameters involved on the calculation, until obtain the more reliable result by inspecting the correlation and error values of the estimated FD.


3D Fractal Dimension
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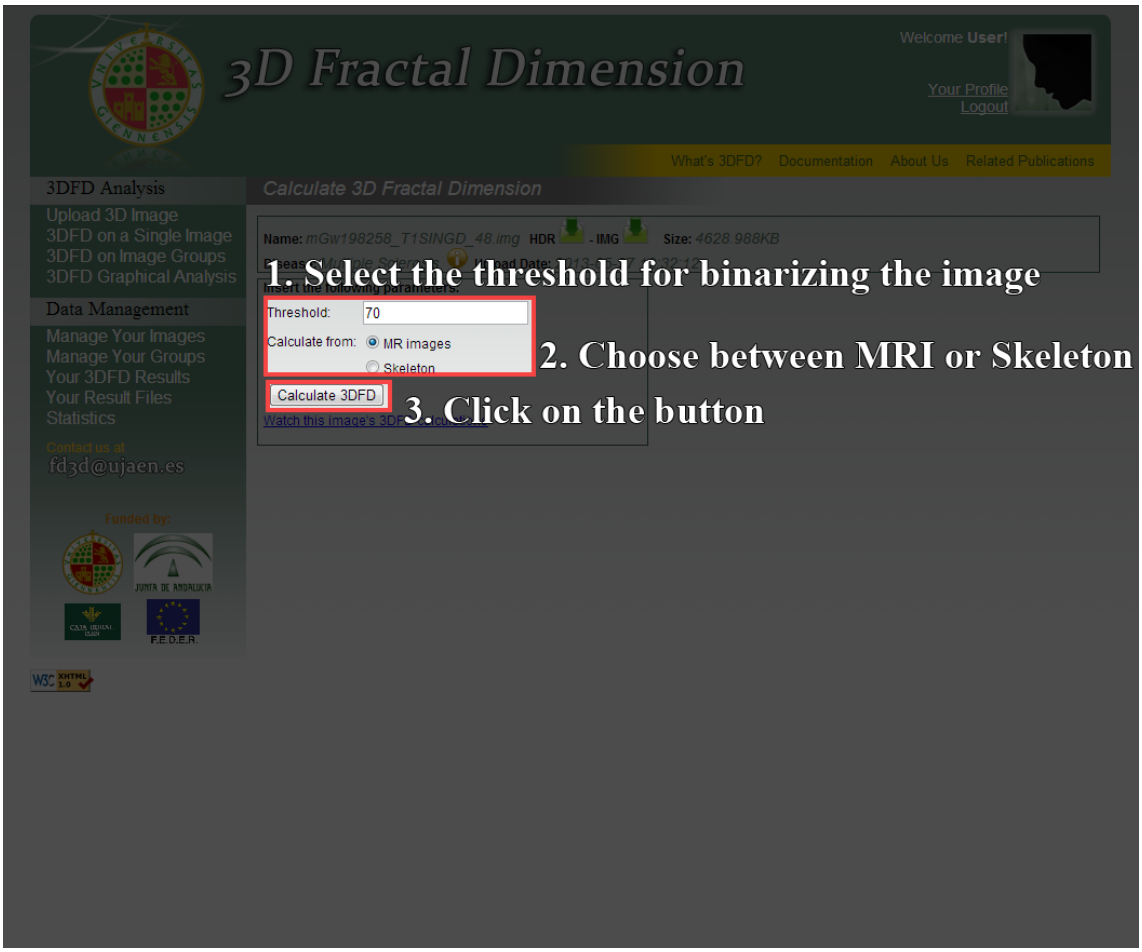
fd3d@ujaen.es
Funded by:
Isolated 3DFD Calculation
1. Select a group
1. Select a Group to find an image: HC_MS
HC_MS - Healthy Controls for Multiple Sclerosis Study
2. Select an image
2. Select an Image: mGw198258_T1SINGD_48.img
Selected MRImage data:
Name: mGw198258_T1SINGD_48.img(HDR - IMG)
Upload Date: 2013-05-27 12:32:12
User Name: User User
Disease: Multiple Sclerosis
Scanner Data: Siemens - Magnetom Trio
Patient Data: Unknown
More Details
3D View
Included in Groups: HC_MS: Healthy Controls for Multiple Sclerosis Study
3. Calculate 3D Fractal Dimension on selected MRImage
3. Click on the button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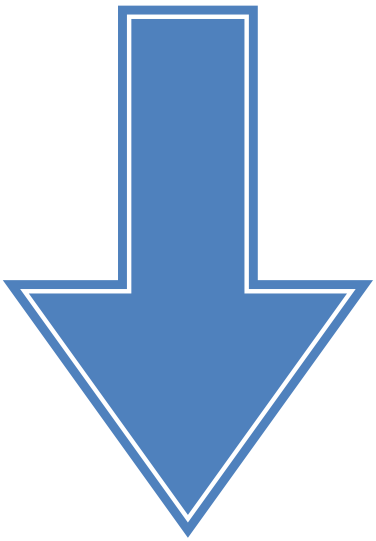
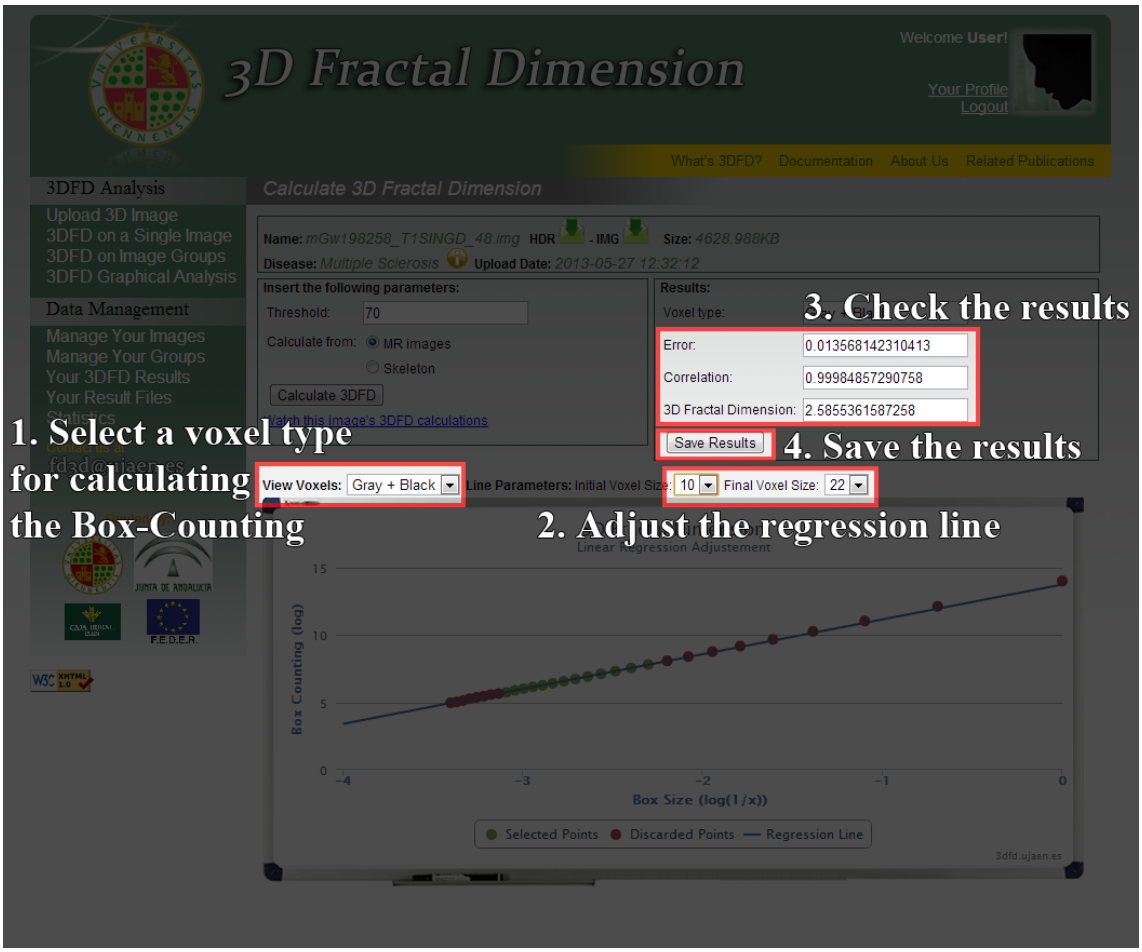
Funded by:
Calculate 3D Fractal Dimension
Name: mGw198258_T1SINGD_48.img HDR - IMG Size: 4628.988KB
Threshold: 70
Calculate from: MR images
Skeleton
Calculate 3DFD
1. Select the threshold for binarizing the image
2. Choose between MRI or Skeleton
3. Click on the button

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Your Result Files
Calculate 3D Fractal Dimension
Name: mGw198258_T1SINGD_48.img HDR - IMG Size: 4628.988KB
Disease: Multiple Sclerosis Upload Date: 2013-05-27 12:32:12
Insert the following parameters:
Threshold: 70
Calculate from: MR images
Skeleton
Calculate 3DFD
Results:
Voxel type:
Error: 0.013568142310413
Correlation: 0.99984857290758
3D Fractal Dimension: 2.5855361587258
Save Results
3. Check the results
4. Save the results
1. Select a voxel type for calculating the Box-Counting
View Voxels: Gray + Black
Line Parameters: Initial Voxel Size: 10 Final Voxel Size: 22
2. Adjust the regression line
Linear Regression Adjustement
Box Counting (log)
Box Size (log(1/x))
Selected Points
Discarded Points
Regression Line
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