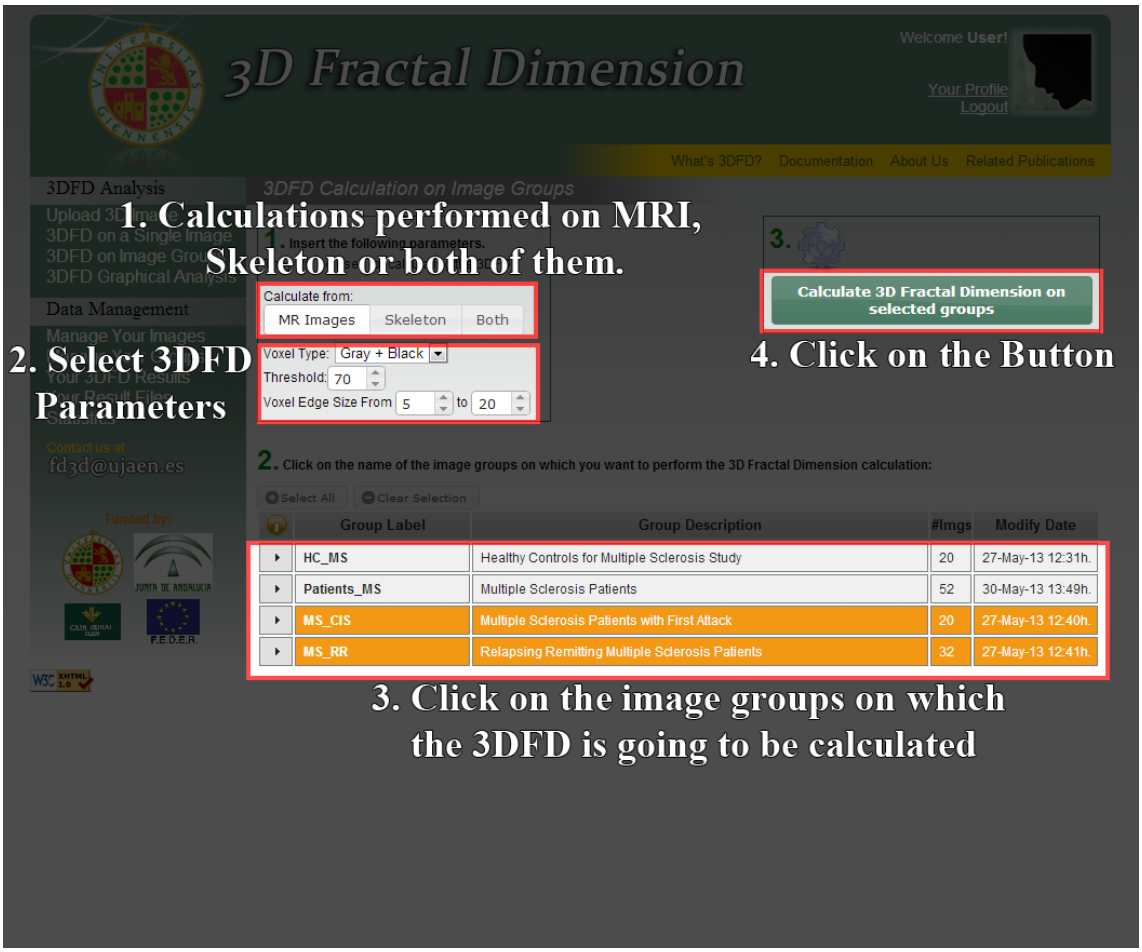
3D Fractal Dimension calculation and analysis on image groups:

The user can calculate the 3DFD on several groups with several images contained within each one. The user only has to set the input parameters, select the groups of images on which the 3DFD is going to be calculated, and wait until the Web platform finishes the processing. The results are stored in the database.

The user also can perform a comparative study of the 3DFD values of different groups of images. This 3DFD values must be previously calculated. For a fair comparison, the 3DFD selected values must have been calculated with the same input parameters.


3D Fractal Dimension
Welcome User!
Your Profile
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What's 3DFD? Documentation About Us Related Publications
3DFD Analysis
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3DFD on Image Groups
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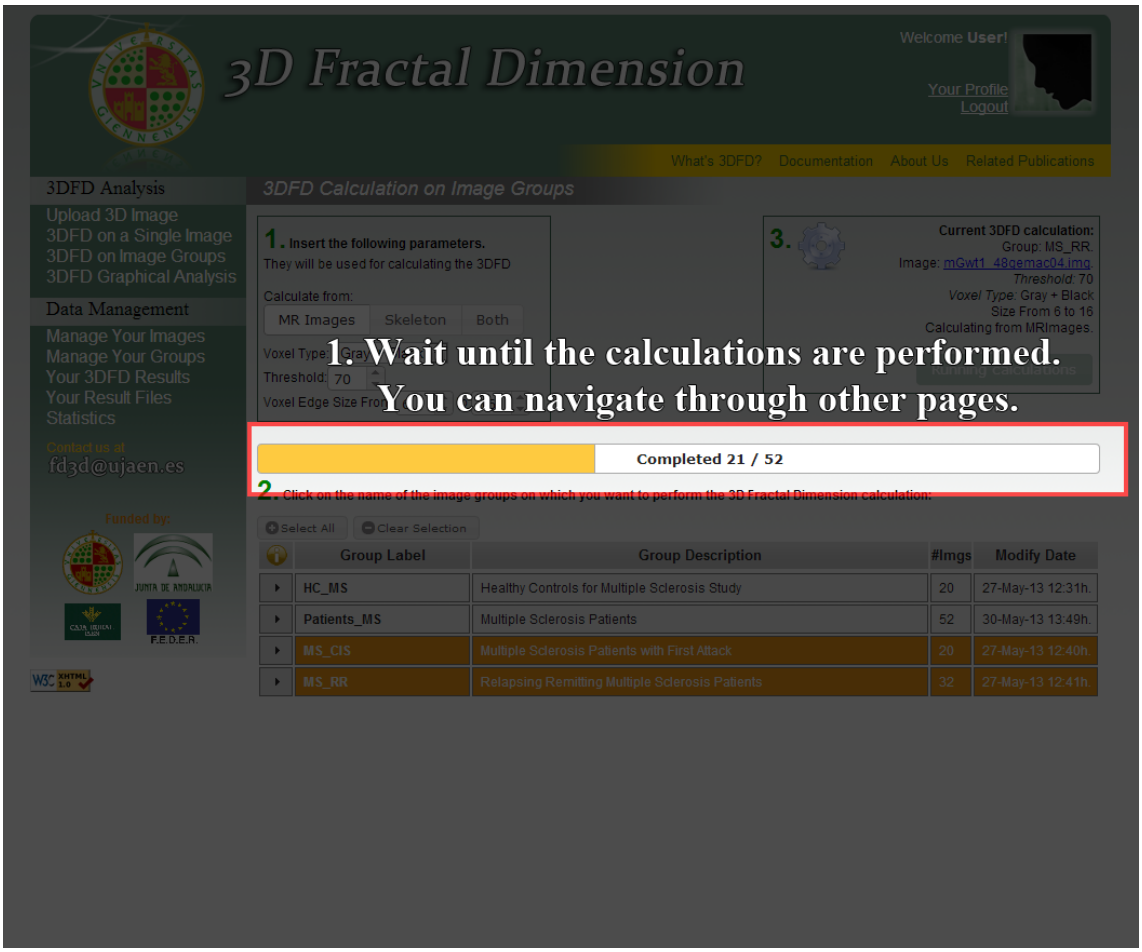
fd3d@ujaen.es
Funded by:
JUNTA DE ANDALUCIA
F.E.D.E.R.
3DFD Calculation on Image Groups
1. Insert the following parameters.
Calculate from:
MR Images
Skeleton
Both
Voxel Type: Gray + Black
Threshold: 70
Voxel Edge Size From 5 to 20
3.
Calculate 3D Fractal Dimension on selected groups
2. Click on the name of the image groups on which you want to perform the 3D Fractal Dimension calculation:
Select All
Clear Selection
Group Label
Group Description
#Imgs
Modify Date
HC_MS
Healthy Controls for Multiple Sclerosis Study
20
27-May-13 12:31h.
Patients_MS
Multiple Sclerosis Patients
52
30-May-13 13:49h.
MS_CIS
Multiple Sclerosis Patients with First Attack
20
27-May-13 12:40h.
MS_RR
Relapsing Remitting Multiple Sclerosis Patients
32
27-May-13 12:41h.
1. Calculations performed on MRI, Skeleton or both of them.
2. Select 3DFD Parameters
3. Click on the image groups on which the 3DFD is going to be calculated
4. Click on the Button


3D Fractal Dimension
Welcome User!
Your Profile
Logout
What's 3DFD? Documentation About Us Related Publications
3DFD Analysis
Upload 3D Image
3DFD on a Single Image
3DFD on Image Groups
3DFD Graphical Analysis
Data Management
Manage Your Images
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Statistics
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3DFD Calculation on Image Groups
1. Insert the following parameters.
They will be used for calculating the 3DFD
Calculate from:
MR Images
Skeleton
Both
Threshold: 70
3.
Current 3DFD calculation:
Group: MS_RR
Image: mGwt1_48gemac04.img
Threshold: 70
Voxel Type: Gray + Black
Size From 6 to 16
Calculating from MRImages.
1. Wait until the calculations are performed.
You can navigate through other pages.
Completed 21 / 52
2. Click on the name of the image groups on which you want to perform the 3D Fractal Dimension calculation:
Select All
Clear Selection
Group Label
Group Description
#Imgs
Modify Date
HC_MS
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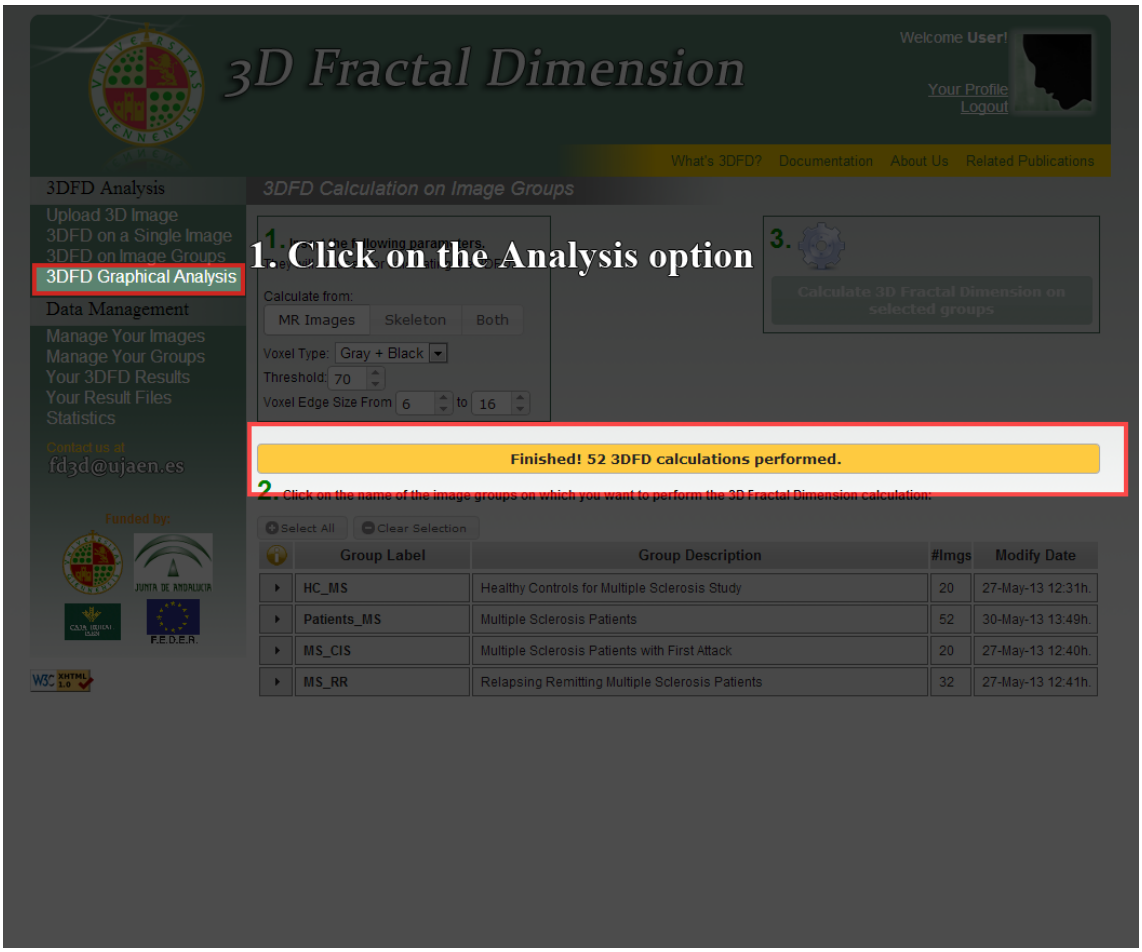
3D Fractal Dimension
Welcome User!
Your Profile
Logout
What's 3DFD? Documentation About Us Related Publications
3DFD Analysis
Upload 3D Image
3DFD on a Single Image
3DFD on Image Groups
3DFD Graphical Analysis
Data Management
Manage Your Images
Manage Your Groups
Your 3DFD Results
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3DFD Calculation on Image Groups
1. Click on the Analysis option
Calculate from:
MR Images
Skeleton
Both
Voxel Type: Gray + Black
Threshold: 70
Voxel Edge Size From 6 to 16
3.
Calculate 3D Fractal Dimension on selected groups
Finished! 52 3DFD calculations performed.
2. Click on the name of the image groups on which you want to perform the 3D Fractal Dimension calculation:
Select All
Clear Selection
Group Label
Group Description
#Imgs
Modify Date
HC_MS
Healthy Controls for Multiple Sclerosis Study
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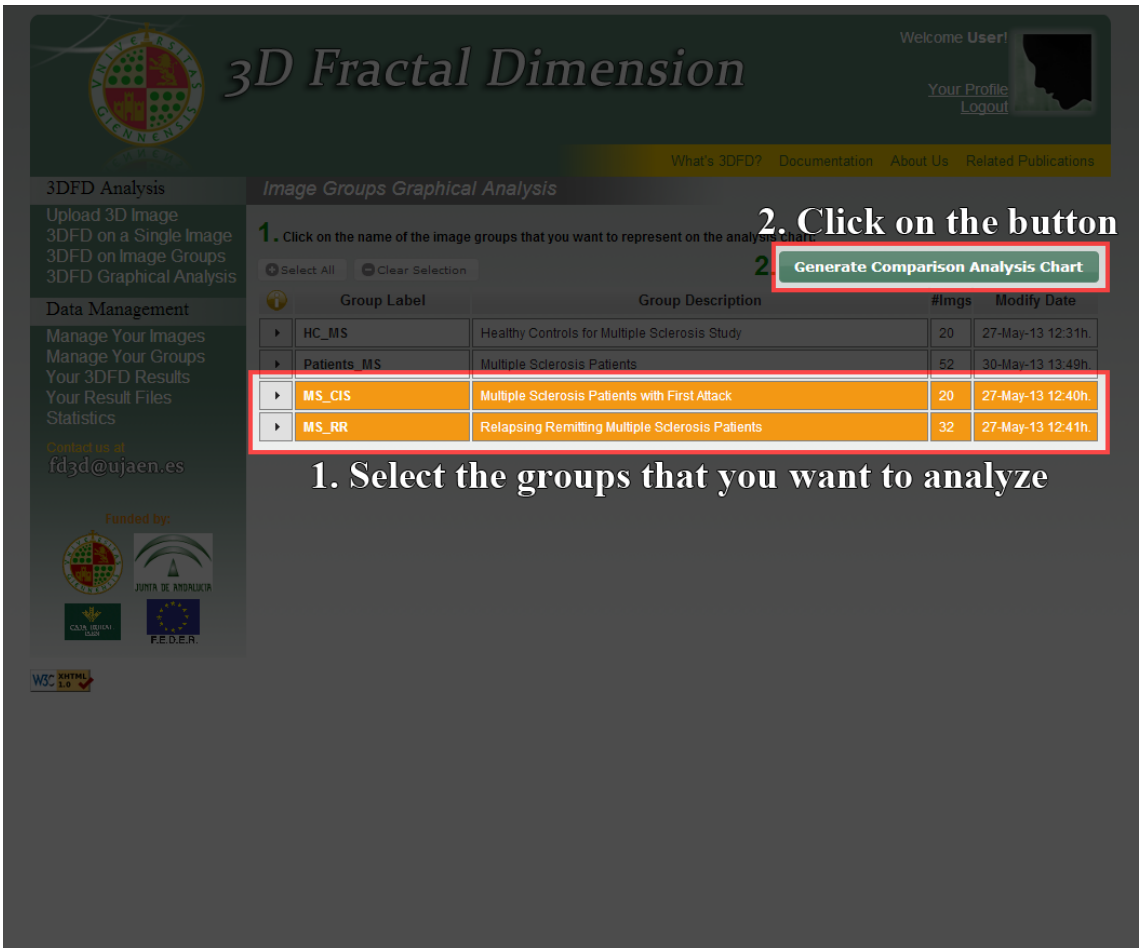
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Your Profile
Logout
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3DFD Analysis
Upload 3D Image
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3DFD on Image Groups
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Image Groups Graphical Analysis
1. Click on the name of the image groups that you want to represent on the analysis chart.
Select All
Clear Selection
2. Click on the button
Generate Comparison Analysis Chart
Group Label
Group Description
#Imgs
Modify Date
HC_MS
Healthy Controls for Multiple Sclerosis Study
20
27-May-13 12:31h.
Patients_MS
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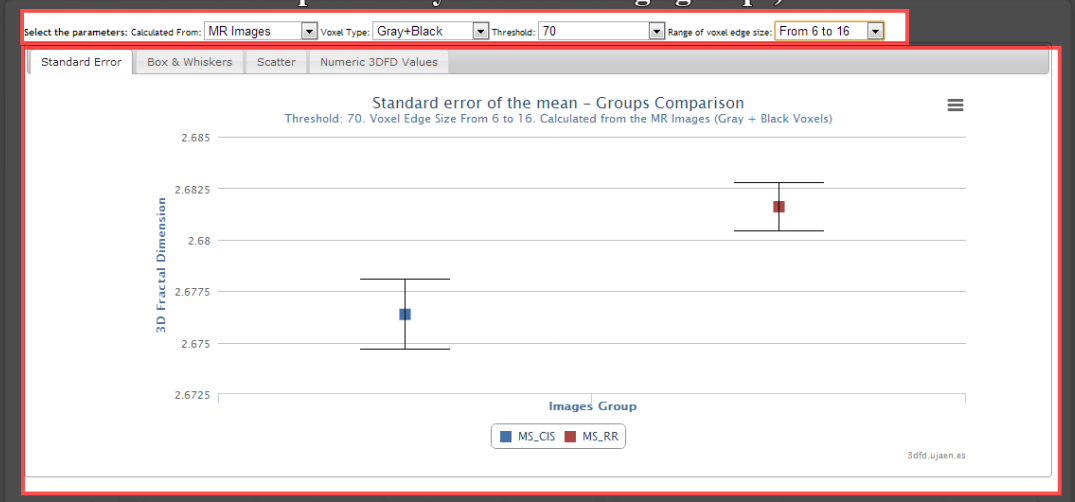
1. Select the groups that you want to analyze

1. Select the 3DFD parameters among the offered by the application (those previously used for performing 3DFD calculations on the previously selected image groups)



2. The graphical analysis is shown. You can get 3 types of plots