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MICCAI 2004 Tutorial: Demo

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Interoperable Medical Image Registration Grid Services



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Target Image



Header File

Image File

Source Image

Header File

Image File

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Interoperable Medical Image Registration Grid Services

Information eXtraction from Images

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Target Image

Header File Browse...
Image File

Source Image

Header File
Image File

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File Upload

Look in: /data/images

Name	Size	Last Modified
180_brain001.hdr	348	05/05/04 10:24:07
180_brain001.img	14942208	05/05/04 10:24:10
182-nregtransform.hdr	348	13/09/04 10:28:25
182-nregtransform.img	14942208	13/09/04 10:28:26
182-transform.hdr	348	10/09/04 10:19:09
182-transform.img	14942208	10/09/04 10:19:09
182_baseline.hdr	348	05/05/04 10:24:26
182_baseline.img	14942208	05/05/04 10:24:28
areg-dof	197	10/09/04 10:07:29
nreg-dof	25674	10/09/04 17:09:45
reg-dof	86	10/09/04 10:31:02

File name:

Files of type: All Files (*.*)

Show hidden files and directories

Open Cancel


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Target Image




Header File

Image File

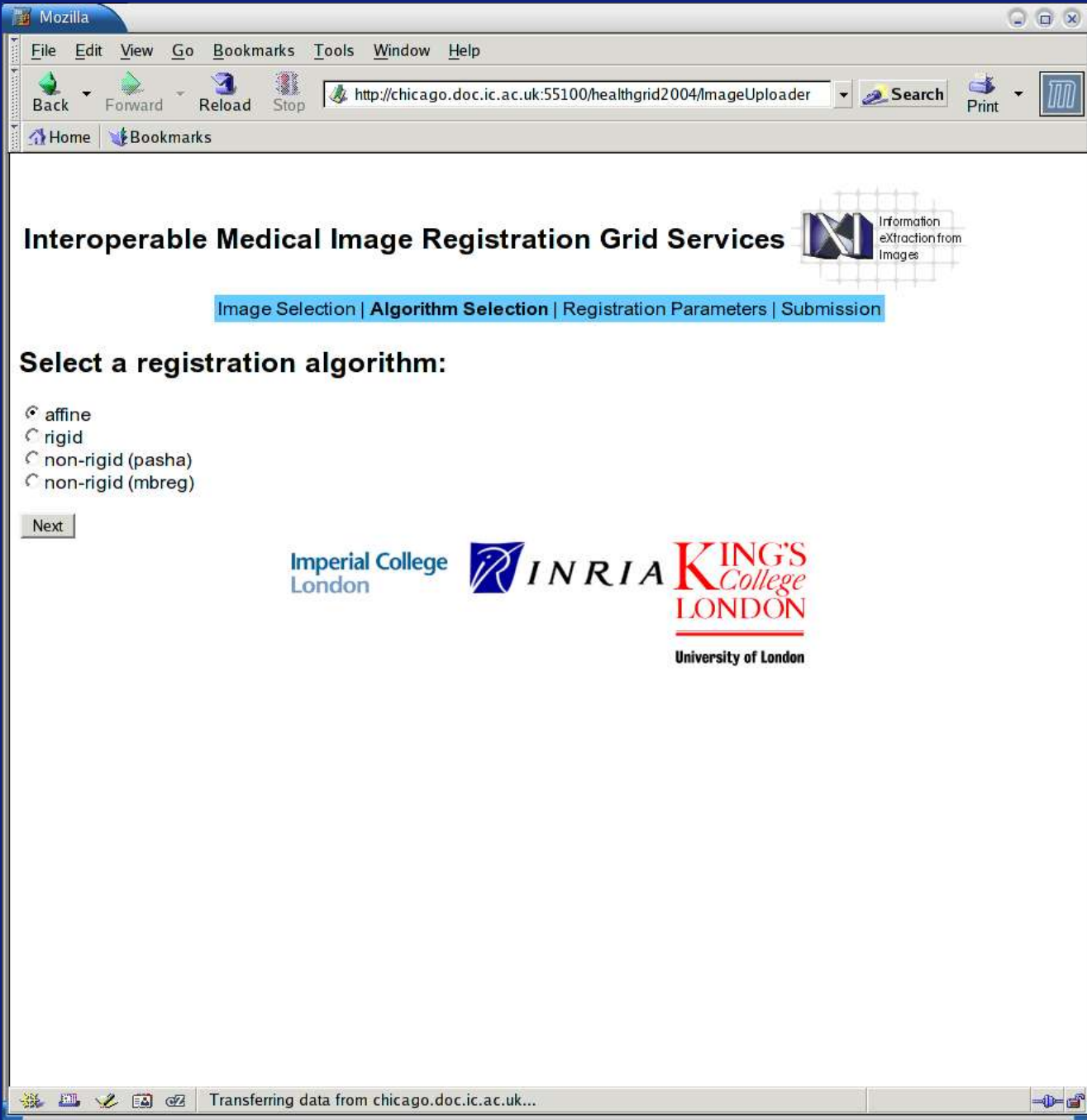
Source Image

Header File

Image File

  
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Done



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Select a registration algorithm:

- affine
- rigid
- non-rigid (pasha)
- non-rigid (mbreg)

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Image Selection | Algorithm Selection | **Registration Parameters** | Submission


The following registration will be submitted:

Algorithm: affine
Target Image: 180_brain001.hdr 180_brain001.img
Source Image: 182_baseline.hdr 182_baseline.img

[Configure advanced parameters](#)

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Done


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Advanced affine parameters

Target blurring (in mm)

Target resolution (in mm)

Source blurring (in mm)

Source resolution (in mm)

No. of resolution levels

No. of bins

No. of iterations

No. of steps

Length of steps

Lambda1

Lambda2

Lambda3


Epsilon


Reduction factor

Similarity mesasure

Interpolation mode

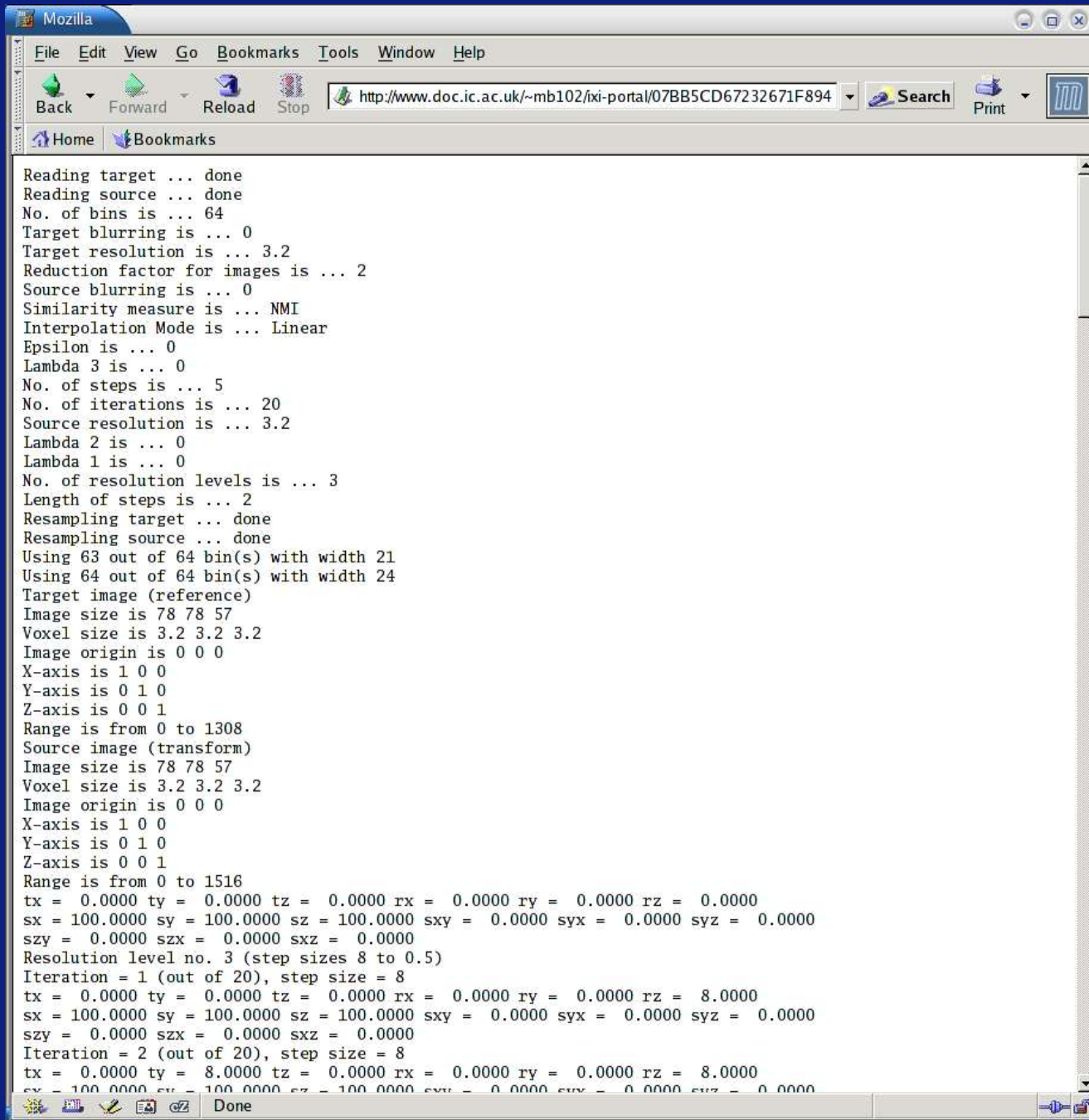
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Done



```
Reading target ... done
Reading source ... done
No. of bins is ... 64
Target blurring is ... 0
Target resolution is ... 3.2
Reduction factor for images is ... 2
Source blurring is ... 0
Similarity measure is ... NMI
Interpolation Mode is ... Linear
Epsilon is ... 0
Lambda 3 is ... 0
No. of steps is ... 5
No. of iterations is ... 20
Source resolution is ... 3.2
Lambda 2 is ... 0
Lambda 1 is ... 0
No. of resolution levels is ... 3
Length of steps is ... 2
Resampling target ... done
Resampling source ... done
Using 63 out of 64 bin(s) with width 21
Using 64 out of 64 bin(s) with width 24
Target image (reference)
Image size is 78 78 57
Voxel size is 3.2 3.2 3.2
Image origin is 0 0 0
X-axis is 1 0 0
Y-axis is 0 1 0
Z-axis is 0 0 1
Range is from 0 to 1308
Source image (transform)
Image size is 78 78 57
Voxel size is 3.2 3.2 3.2
Image origin is 0 0 0
X-axis is 1 0 0
Y-axis is 0 1 0
Z-axis is 0 0 1
Range is from 0 to 1516
tx = 0.0000 ty = 0.0000 tz = 0.0000 rx = 0.0000 ry = 0.0000 rz = 0.0000
sx = 100.0000 sy = 100.0000 sz = 100.0000 sxy = 0.0000 syx = 0.0000 syz = 0.0000
szy = 0.0000 szx = 0.0000 sxz = 0.0000
Resolution level no. 3 (step sizes 8 to 0.5)
Iteration = 1 (out of 20), step size = 8
tx = 0.0000 ty = 0.0000 tz = 0.0000 rx = 0.0000 ry = 0.0000 rz = 8.0000
sx = 100.0000 sy = 100.0000 sz = 100.0000 sxy = 0.0000 syx = 0.0000 syz = 0.0000
szy = 0.0000 szx = 0.0000 sxz = 0.0000
Iteration = 2 (out of 20), step size = 8
tx = 0.0000 ty = 8.0000 tz = 0.0000 rx = 0.0000 ry = 0.0000 rz = 8.0000
sx = 100.0000 sy = 100.0000 sz = 100.0000 sxy = 0.0000 syx = 0.0000 syz = 0.0000
szy = 0.0000 szx = 0.0000 sxz = 0.0000
```

Done

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Information eXtraction from Images

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You have submitted the following jobs:

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[Refresh](#) [New Job](#)

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Save As

Look in: /data

Name	Size	Last Modified
IdeaProjects		03/08/04 12:42:11
IntelliJ-IDEA-4.5		03/08/04 12:41:14
META-INF		24/05/04 17:13:46
OOo_1.1.1_LinuxIntel_inst...		17/03/04 17:16:35
OpenOffice.org1.1.1		15/09/04 10:17:12
P-GRADE_8.3b		06/09/04 14:35:39
SWIG-1.3.21		24/02/04 16:57:19
cog		23/03/04 12:10:55
condorWeb		29/06/04 12:15:47
condor_logview		20/07/04 09:45:27
core-src		08/07/04 13:29:44

File name:

Files of type: Text File (*.txt; *.text)

Show hidden files and directories

Save Cancel

Done

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view

File Options Colors

1.0

Visualisation Transformation

Min. greyvalue: 0

Max. greyvalue: 1998

NN Interpolation

Min. greyvalue: 0

Max. greyvalue: 1

NN Interpolation

A

Target image: 127.50, 127.50, 58.50 (0.00 mm, 0.00 mm, 0.00 mm) = 574

Source image:

(C) Daniel Rueckert & Julia