



ABOUT
What is neuGRID? [more >](#)

SERVICES
Image Processing, Datasets [more >](#)

QUOTATION
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SCIENCE GATEWAY ACCESS

RECENT ACHIEVEMENTS

ROBOT CERTIFICATES

Robot certificates, allowing direct authentication, are fully functional into the system. Running jobs onto the grid is definitely trouble-free.

RESOURCES

DATASETS: neuGRID offers access to some of the biggest datasets in neurodegenerative, white matter and psychiatric diseases.

OASIS, MIRIAD, ADNI, fBIRN and the recently uploaded MAGNIMS are available and many more are upcoming!

APPS: neuGRID provides many applications and the computational power to run analyses. The most requested, Freesurfer and FSL, are already accessible. Others will be implemented soon according to user priorities.

At the same time, neuGRID gives visibility to applications developed by smaller groups.

SERVICES

NOTIFICATION: a new email notification system has been implemented for the Diagnostic Portlets. Users will be notified about their analyses launched through these programs by an email to their personal address.

ANALYSIS BASE: thanks to neuGRID Information Services, all datasets available have been indexed and users can filter them and export the results in .csv or .xml files.

USER ACCEPTANCE TESTS

Latest User Acceptance Tests held in Bucharest, Brescia, and Amsterdam proved that neuGRID services can handle complex tasks in real world scenarios.

NeuGRID AT WORK

So Far: 11 complete projects, among which 8 conducted by external users, have been successfully run on neuGRID, meaning that almost 5300 scans have been processed, 169.640 jobs have been submitted.

Type	PI / Institution	Study Name
Internal	A Redolfi, FBF	Quantitative evaluation of two cortical surface reconstruction algorithms in ADNI
Internal	A Redolfi, FBF	ACM Adaboost Algorithm Pipeline Setup
External	A. Prestia, FBF	Diagnostic accuracy of markers for prodromal AD in 2 independent clinical series
External	A. Prestia, FBF	Testing the dynamic model of Alzheimer's disease in 2 European memory clinics
External	M. Kivipelto, KI	CAIDE study: Structural MRI and cardiovascular risk factors
External	S. MacDonald, VU	Cortical thickness and intraindividual variability in working memory
External	A. Simmons, KCL	White matter lesion load in the London cohort
External	F. Galeazzi, GARR	H2H Decide/N4U algorithm
External	J. Miralbell, UB	The Stroke ASIA study
External	R. Rossi, FBF	BipoBorder Study
Internal	K. Cover, VUA	NDD Data Challenge

Next: 9 other projects, among which 7 conducted by external users, will start their analyses.

Type	PI / Institution	Study Name
External	G. Frisoni, FBF	PharmaCog (T06) – Identification of biomarkers sensitive to disease progression – Patient study
External	PJ Visser, VUA	EMIF-AD – Identification of prognostic and diagnostic biomarkers for Alzheimer's Disease
External	C. Follin, Lund University Hospital	Investigation of structural changes in patients with acute lymphoblastic leukemia and craniopharyngioma that underwent cranial radiotherapy
External	H. Soininen, University of Eastern Finland	The FINGER study: Possible effects of multi-domain interventions on brain structures
External	J. Braga Perreira	Cortical thickness in a PD cohort
External	EADC - FBF	MTA atrophy
Internal	K. Cover, VUA	WMD Data Challenge
External	D. Aarsland, KI	Structural brain changes in elderly depressive patients with and without cognitive decline
Internal	G. Spulber, KI	White matter lesion load in the AddNeuroMed cohort
External	J. Hillert KI	Cortical atrophy in multiple sclerosis patients: the MS-stop project

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