

Web based Grid binary LOfistic REgression (Web GLORE) User Manual

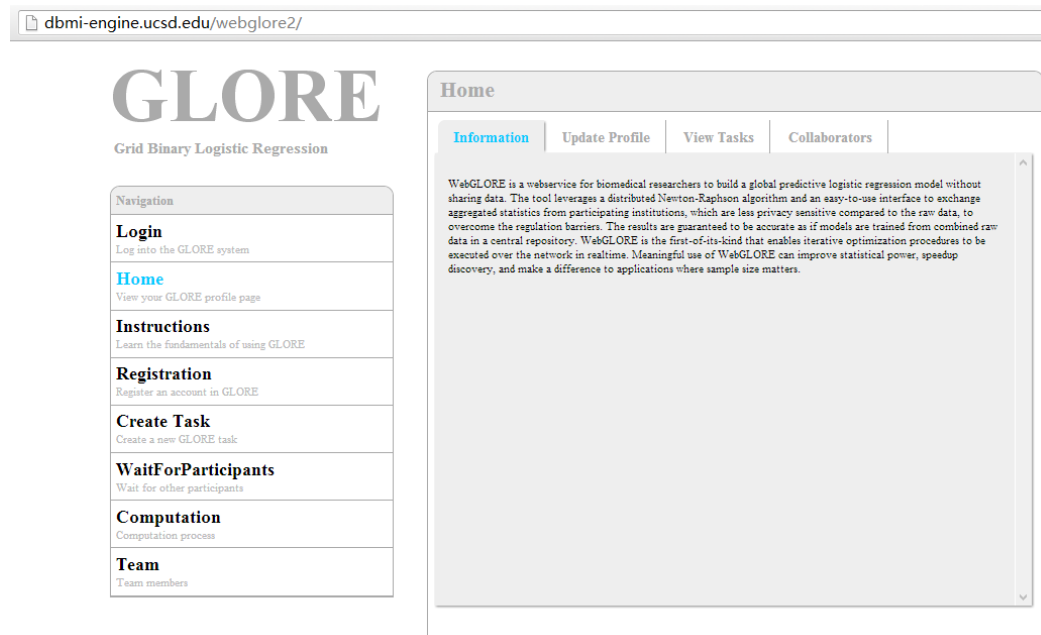
<http://dbmi-engine.ucsd.edu/webglor2/>

Index

- 1. How to visit Web GLORE
- 2. Register as a new user
- 3. Login into Web GLORE
- 4. Manage your profile
- 5. Create a Web GLORE task
- 6. Join in a Web GLORE task
- 7. Start task
- 8. Get reports
- 9. Test data

. 1. How to visit Web GLORE

- 1. Requirement: Make sure Java has been installed in your browser.
- 2. Just input <http://dbmi-engine.ucsd.edu/webglore2/> in the browser to visit Web GLORE



2. Register as a new user

- 1. Click registration.html, input some personal information and click “Register”.
- 2. Duplicated email address is not allowed.

dbmi-engine.ucsd.edu/webglоре2/registration.html

GLORE

Grid Binary Logistic Regression

Navigation

Login

Log into the GLORE system

Home

View your GLORE profile page

Instructions

Learn the fundamentals of using GLORE

Registration

Register an account in GLORE

Create Task

Create a new GLORE task

WaitForParticipants

Wait for other participants

Computation

Computation process

Team

Team members

Registration

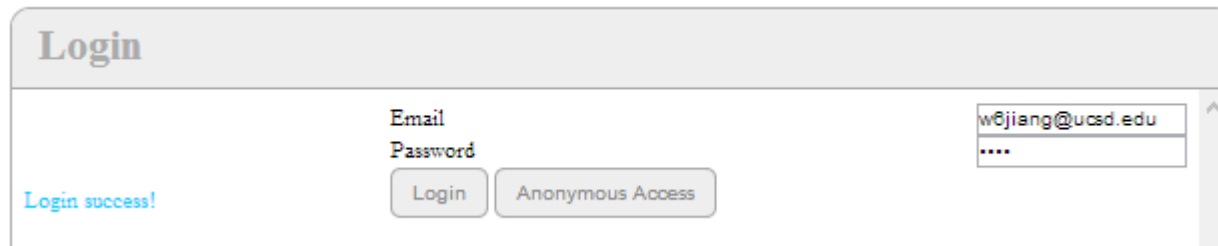
Duplicate email

First name ✓
Last name ✓
Email(* permanent identifier) ✗
Confirm Email ✗
Password ✗
Confirm Password ✗

Register

3. Login into Web GLORE

- 1. Use the registered email and password, a user can login into Web GLORE.
- 2. User can also choose to login anonymously. However, a registered user has higher authority.



The image shows a web browser window with a login form titled "Login". The form has two input fields: "Email" and "Password". The "Email" field contains the text "w@jiang@ucsd.edu". The "Password" field contains four dots, indicating a masked password. Below the input fields are two buttons: "Login" and "Anonymous Access". To the left of the buttons, there is a message "Login success!" in blue text. The form is enclosed in a light gray border with a rounded top-left corner.

Login

Email w@jiang@ucsd.edu

Password

Login success!

Login Anonymous Access

4. Manage your profile

- You can update your profile, view past tasks you joined in, and view your collaborators.

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Navigation

Login

Log into the GLORE system

Home

View your GLORE profile page

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Registration

Register an account in GLORE

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Computation process

Team

Team members

Home

Information

Update Profile

View Tasks

Collaborators

Collaborators:

W J <jwch46@163.com>

t1

task4

test10

Unknown <gg@aa.com>

custom1 custom2 <jwc@abc.com>

challen lur <challenlur@gmail.com>

Unknown <xiaoqian@cs.cmu.edu>

5. Create a Web GLORE task

- 1. Go to the create task page and finish the form.
- 2. You need to upload the directory address of your data. Only the first line in your file is recorded, which shows the attributes

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Navigation

Login

Log into the GLORE system

Home

View your GLORE profile page

Instructions

Learn the fundamentals of using GLORE

Registration

Register an account in GLORE

Create Task

Create a new GLORE task

WaitForParticipants

Wait for other participants

Computation

Computation process

Team

Team members

Create Task

Task Information:

Title ✓

Expires in days ✓

Description

Initiator Email:

✓

Participant Information:

Add

Reset

Task Parameters:

Maximum iterations ✓

Epsilon ✓

Upload data File ✓

Browse

Create

6. Join in a Web GLORE task

- 1. All participants will receive an email with a link to join the task.

Invitation to the Grid Binary LOGistic REGression (GLORE) project ☆
glore.ucsd

You are invited to join the task under the Grid Binary LOGistic REGression (GLORE) project, TaskTest, created by w6jiang@ucsd.edu.
Please click the link below to process your partial data OR check the task status.
Please note that the expiration time of the task is 2013-05-04 06:37:25.

<http://dbmi-engine.ucsd.edu/webglore2/WaitForParticipants.html?email=jwch46@163.com&taskName=TaskTest>

6. Join in a Web GLORE task (cont.)

- 2. Click the link and you will be redirected to “Wait for Participants” page. You can see the status of all participants in the task.
- 3. Click “submit data” and you will be allowed to submit the your data. Web GLORE will check if your data has the same attributes with initiator’s data.

Wait for Participants

Task Parameters:
Task Name:
TaskTest
Initiator Email:
w6jiang@ucsd.edu

Participant Status :

Email	Participant Status	TaskStatus
w6jiang@ucsd.edu	1	0
jwch46@163.com	1	0

Task data properties :
F1 F2 F3 F4 F5 F6 F7 F8 F9 Response

Submit Data

Begin Computation

Wait for Participants

Task Parameters:
Task Name:
TaskTest
Initiator Email:
w6jiang@ucsd.edu

Participant Status :

Email	Participant Status	TaskStatus
w6jiang@ucsd.edu	1	0
jwch46@163.com	1	0

Task data properties :
F1 F2 F3 F4 F5 F6 F7 F8 F9 Response

User data properties :
F1 F2 F3 F4 F5 F6 F7 F8 F9 Response

Upload data File

o:\Desktop\ledin_data\ledin_IPDLR_4.txt

Browse

Submit

Hide submission

Begin Computation

7. Start task

- 1. If all participants are ready, initiator can click “Begin Computation” and all participants jump to “Computation page”

Computation

On-going iterations

Iteration information

-0.006844	-0.006858	-0.001024	-0.038207	0.130023	0.006855	-0.006844
-0.019222	-0.003954	0.001546	-0.004681	-0.000970	0.001836	-0.019222
-0.020461	-0.001600	0.005163	-0.006896	0.006855	0.063199	-0.020461
-0.026634	-0.003465	-0.000590	-0.006408	0.007852	0.008041	-0.026634
-0.019222	-0.003954	0.001546	-0.004681	-0.000970	0.001836	-0.019222
-0.026634	-0.003465	-0.000590	-0.006408	0.007852	0.008041	-0.026634
-0.014497	0.003043	0.000626	-0.000851	0.006856	0.000610	-0.014497
-0.014497	0.003043	0.000626	-0.000851	0.006856	0.000610	-0.014497
-0.022546	-0.001215	-0.000277	-0.000648	-0.003830	0.006270	-0.022546

SD matrix:

-0.022546	-0.001215	-0.000277	-0.000648	-0.003830	0.006270	-0.022546
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SD matrix:

0.252512	0.186275	0.197889	0.243116	0.360587	0.251395	0.252512
0.252512	0.186275	0.197889	0.243116	0.360587	0.251395	0.252512

AUC Value:

0.720465

start end message transmission

AUC Value:

0.720465

GetGlobalReport!

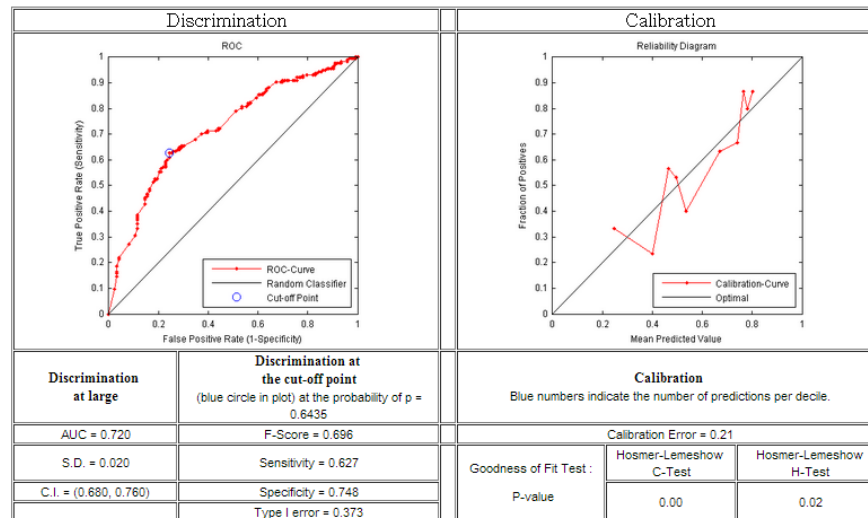
Get Local Report

Test

8. Get reports

- 1. Web GLORE has a server to get the report of GLORE performance

GLORE performance



Attribute Statistics

Predictor	Beta	SE	Z-statistics	df	p	Odds ratio
Intercept	0.9355	0.2525	3.7049	1	0.0002	N/A
F1	0.1653	0.1863	0.8873	1	0.3749	1.1797
F2	-0.0037	0.1979	-0.0189	1	0.9849	0.9963
F3	-0.5396	0.2431	-2.2195	1	0.0265	0.5830
F4	-0.1840	0.3606	-0.5102	1	0.6099	0.8320
F5	-0.0383	0.2514	-0.1523	1	0.8790	0.9624
F6	-1.2949	0.2887	-4.4857	1	0.0000	0.2739
F7	0.1948	0.2053	0.9486	1	0.3428	1.2150
F8	-1.2453	0.1842	-6.7608	1	0.0000	0.2879
F9	0.0967	0.1951	0.4958	1	0.6200	1.1016

9. Test data

- 1. You can test your own data by click “Test” and submit the data you want to test

Test GLORE performance using local data

Upload your test data file:

C:\Users\Wenchao\Desktop\edin_data\edin_IPDLR_3.txt

Browse

Submit

Predicted Probability	Y-value
0.5357577578683944	0.0
0.4954345628047826	0.0
0.4954345628047826	0.0