

HOW TO USE

AVALON

version 5.0 by A.GASPANI (May, 1995)

Search for the time of extremum of a noisy randomly sampled function
by artificial neural

Input File: RZ CAS

Input file must be an ASCII file with the following format:

Time[space]Magnitude	
0.2917	-6.7
0.3007	-6.9
0.3083	-7.1
...	...
0.3639	-7.1
0.3681	-6.9
0.3750	-6.7

Run AVALON computer program.

Input data filename: name of the DAT file (rzcas.dat)

Output data filename: name of the output file (rzcas.ava)

Restored Signal filename: output file (rzcas.av2)



press enter

```

Esecuzione terminata - AVALON
Auto
...the Mist of Avalon...
Input Data Filename: rzcas.dat
Output Data Filename: rzcas.ava
Output Restored Signal Filename: rzcas.av2

Doing neural processing...

-----
Neurons in the Input Layer:  Np=          22
Neurons in the Hidden Layer: Nh=          22
Number of Output Neurons :  No=           1
-----

Kind of extremum: Minimum

Optimal Time of Extremum: To=  3.340389E-001
Optimal Error on the Extremum: e(To)= 3.786363E-003

*** Program AVALON executed!! ***

```

Output Files:

RZCAS.AVA

ASCII output file containing time of extremum and its error:

```

*===== AVALON =====*
| Artificial Neural Network Searching for the |
| Time of Extremum of a Sampled Noisy Function |
*-----*
| by A.Gaspani (GEOS, GDS), May 1995 - Rel. 5.0 |
*=====*

-----
Neurons in the Input Layer:  Np=          22
Neurons in the Hidden Layer: Nh=          22
Number of Output Neurons :  No=           1
-----

Optimal Time of Extremum: To=  3.340389E-001
Optimal Error on the Extremum: e(To)= 3.786363E-003
Kind of extremum: Minimum
-----

```

RZCAS.AV2

ASCII output file containing restored signal:

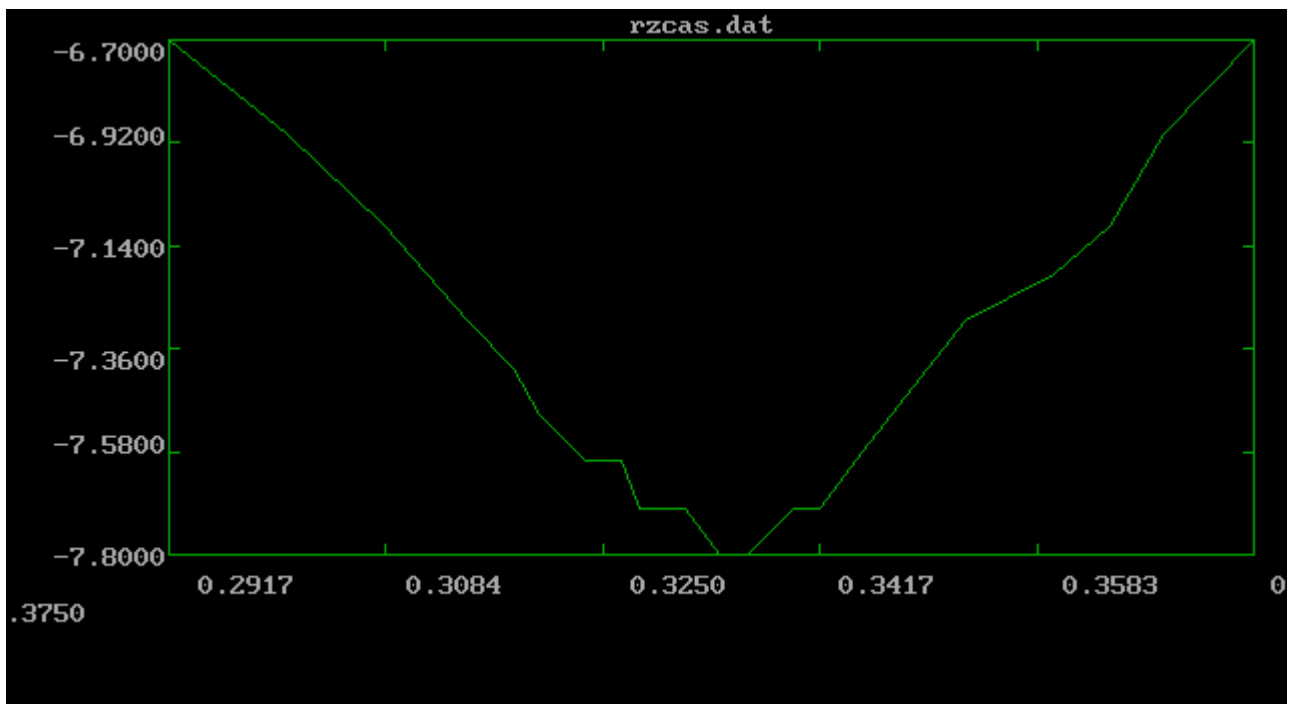
```

2.917000E-001      -6.8362590
2.956667E-001      -6.8839620
2.996333E-001      -6.9409550
...
3.670667E-001      -7.0121160
3.710333E-001      -6.9505610
3.750000E-001      -6.8924640

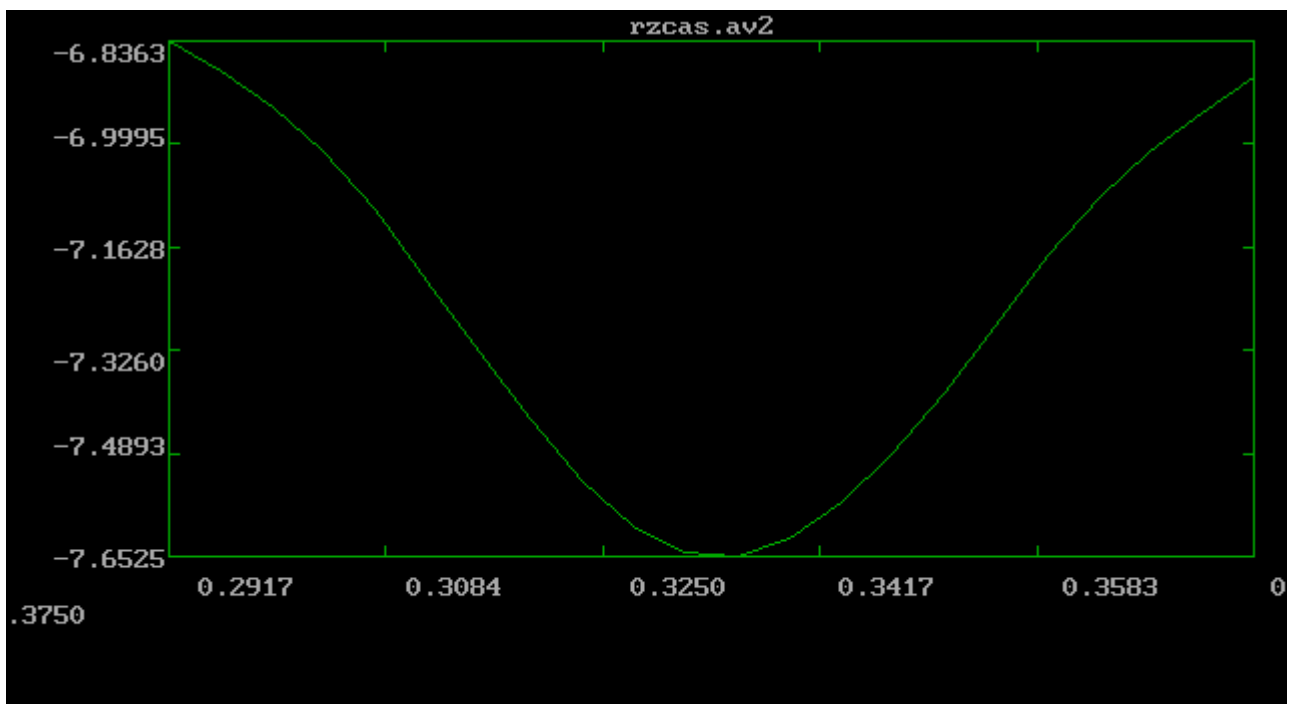
```

Run MNG program

Type "plot rzcas.dat" and press enter to see the DATA file:



type "plot rzcas.av2" and press enter to see the restored signal:



type "end" and press enter to exit from MNG