

ONLINE-SVR COMMAND-LINE MANUAL

PARAMETERS

PARAMETERS	DESCRIPTION
OPERATIONS	
-Train	Train new samples
-Forget	Forget samples
-Stabilize	Stabilize samples
-Predict	Predict the values
-Margin	Predicted values errors
PARAMETERS	
-C	<i>C</i> parameter
-Epsilon	<i>Epsilon</i> parameter
-KernelType	<i>KernelType</i> parameter (Linear, Polynomail, RBF, GaussianRBF, ExponentialRBF, MLP)
-KernelParam	<i>KernelParam</i> parameter
-KernelParam2	<i>KernelParam2</i> parameter
-ErrorTolerance	<i>ErrorTolerance</i> parameter
-Verbosity	<i>Verbosity</i> parameter (0..3)
FILE I/O	
-Load	Path of .svr file to load
-Save	Path of .svr file to save
-Data	Path of data files
ADVANCED PARAMETERS	
-SaveKernelMatrix	OnlineSVR will be faster, but it will use more memory (default)
-NotSaveKernelMatrix	OnlineSVR will be slower, but it will use less memory
-StabilizedLearning	Check if some samples aren't correct (default)
-NotStabilizedLearning	Doesn't check if some samples aren't correct

EXAMPLES

1) Train a new OnlineSVR with elements contained in data.txt

```
OnlineSVR -Train -Data data.txt
```

2) Train new samples in a old OnlineSVR

```
OnlineSVR -Train -Data data.txt -Load OnlineSVR1.svr -Save OnlineSVR2.svr
```

3) Forget samples contained in a indexes list

```
OnlineSVR -Forget -Data indexes.txt -Load OnlineSVR1.svr -Save OnlineSVR2.svr
```

4) Stabilize OnlineSVR

```
OnlineSVR -Stabilize -Epsilon 1 -Load OnlineSVR1.svr -Save OnlineSVR2.svr
```

5) Predict samples contained in data.txt

```
OnlineSVR -Predict -Data data.txt -Load OnlineSVR.svr
```

6) Margin of samples conteneid in data.txt

```
"OnlineSVR C++.exe" -Margin -Data data.txt -Load OnlineSVR1.svr -Verbosity 0
```

DATA FILES STRUCTURE

LEARNING, MARGIN

```
R C  
Y1 X11 X12 ... X1c  
... ..  
Yr X1r X2r ... Xrc
```

FORGETTING (indexes)

```
I1 I2 ... In
```

PREDICT

```
R C  
X11 X12 ... X1c  
... ..  
Xr1 Xr2 ... Xrc
```

LEGEND:

```
R = rows number  
C = cols number
```