AMORE++

pre-alpha (active development aiming to release a beta version this summer (2011)) $\,$

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Chapter 1

The AMORE++ package

1.1 Introduction

Here you will find the documentation of the C++ component of the AMORE++ R package.

The AMORE++ package is a new version of the publicly available AMORE package for neural network training and simulation under R

1.2 Motivation

Since the release of the previous version of the AMORE many things have changed in the R programming world.

The advent of the Reference Classes and of packages like Rcpp, inline and RUnit compel us to write a better version of the package in order to provide a more useful framework for neural network training and simulation.

1.3 Road Map

This project is currently very active and the development team intends to provide a beta version as soon as this summer (2011)

Chapter 2

Class Index

2.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

Activation-unction	9
ArcTan	9
Cosine	1
Elliot	7
Exponential	3
Gauss	9
Identity	5
Logistic	
RadialBasis)5
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Chapter 3

Class Index

3.1 Class List

Here are the classes, structs, unions and interfaces with brief descriptions:

6 Class Index

Neuron (Class Neuron -)
PredictBehavior (Class PredictBehavior -)
RadialBasis (Class RadialBasis -)
RadialBasisFactory (Class RadialBasisFactory -)
RBFbehavior (Class RBFbehavior -)
RBFfactory (Class RBFfactory -)
Reciprocal (Class Reciprocal -)
ReciprocalFactory (Class ReciprocalFactory -)
SimpleContainer < T > (Class SimpleContainer -)
SimpleContainerIterator < T > (Class SimpleContainerIterator -)
SimpleNetwork (Class SimpleNetwork -)
SimpleNeuralCreator (Class SimpleNeuralCreator -)
SimpleNeuron (Class SimpleNeuron -)
Sine (Class Sine -)
SineFactory (Class SineFactory -)
Square (Class Square -)
SquareFactory (Class SquareFactory -)
Tanh (Class Tanh -)
TanhFactory (Class TanhFactory -)
Threshold (Class Threshold -)
ThresholdFactory (Class ThresholdFactory -)
TrainingBehavior (Class TrainingBehavior -)

Chapter 4

File Index

4.1 File List

Here is a list of all files with brief descriptions:

pkg/AMORE/src/ActivationFunction.cpp
pkg/AMORE/src/AMORE.h
pkg/AMORE/src/Con.cpp
pkg/AMORE/src/Container.cpp
pkg/AMORE/src/ldentity.cpp
pkg/AMORE/src/IdentityFactory.cpp
pkg/AMORE/src/lterator.cpp
pkg/AMORE/src/lteratorInterface.cpp
pkg/AMORE/src/MLPbehavior.cpp
pkg/AMORE/src/MLPfactory.cpp
pkg/AMORE/src/NeuralNetwork.cpp
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pkg/AMORE/src/Tanh.cpp
pkg/AMORE/src/TanhFactory.cpp
pkg/AMORE/src/dia/ActivationFunction.h
pkg/AMORE/src/dia/AdaptBehavior.h
pkg/AMORE/src/dia/ADAPTgd.h
pkg/AMORE/src/dia/ADAPTgdwm.h
pkg/AMORE/src/dia/ArcTan.h
pkg/AMORE/src/dia/ArcTanFactory.h
pkg/AMORE/src/dia/BatchBehavior.h
pkg/AMORE/src/dia/BATCHgd.h
pkg/AMORE/src/dia/BATCHgdwm.h

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Chapter 5

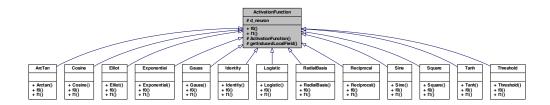
Class Documentation

5.1 ActivationFunction Class Reference

class ActivationFunction -

#include <ActivationFunction.h>

Inheritance diagram for ActivationFunction:



Public Member Functions

- virtual double f0 ()=0
- virtual double f1 ()=0

Protected Member Functions

- ActivationFunction (NeuronPtr neuronPtr)
- double getInducedLocalField ()

Protected Attributes

• NeuronWeakPtr d_neuron

5.1.1 Detailed Description

```
class ActivationFunction -
```

Definition at line 4 of file ActivationFunction.h.

5.1.2 Constructor & Destructor Documentation

```
5.1.2.1 ActivationFunction::ActivationFunction ( NeuronPtr neuronPtr ) [protected]
```

Definition at line 11 of file ActivationFunction.cpp.

```
d_neuron(neuronPtr)
{
}
```

5.1.3 Member Function Documentation

```
5.1.3.1 virtual double ActivationFunction::f0() [pure virtual]
```

Implemented in ArcTan, Cosine, Elliot, Exponential, Gauss, Identity, Logistic, RadialBasis, Reciprocal, Sine, Square, Tanh, and Threshold.

```
5.1.3.2 virtual double ActivationFunction::f1() [pure virtual]
```

Implemented in ArcTan, Cosine, Elliot, Exponential, Gauss, Identity, Logistic, RadialBasis, Reciprocal, Sine, Square, Tanh, and Threshold.

```
5.1.3.3 double ActivationFunction::getInducedLocalField() [protected]
```

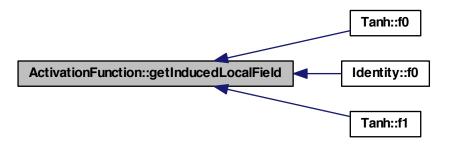
Definition at line 17 of file ActivationFunction.cpp.

References d_neuron.

Referenced by Tanh::f0(), Identity::f0(), and Tanh::f1().

```
{
  NeuronPtr neuronPtr(d_neuron.lock());
  return neuronPtr->getInducedLocalField();
}
```

Here is the caller graph for this function:



5.1.4 Member Data Documentation

5.1.4.1 NeuronWeakPtr ActivationFunction::d_neuron [protected]

Definition at line 7 of file ActivationFunction.h.

 $Referenced\ by\ getInducedLocalField().$

The documentation for this class was generated from the following files:

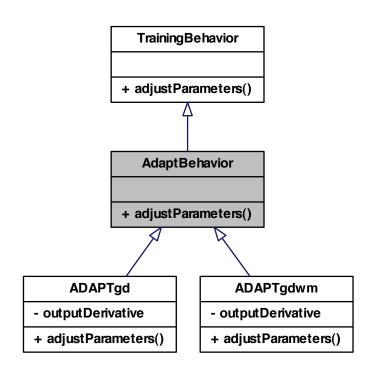
- pkg/AMORE/src/dia/ActivationFunction.h
- pkg/AMORE/src/ActivationFunction.cpp

5.2 AdaptBehavior Class Reference

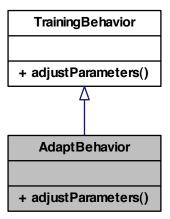
class AdaptBehavior -

#include <AdaptBehavior.h>

Inheritance diagram for AdaptBehavior:



Collaboration diagram for AdaptBehavior:



Public Member Functions

• virtual void adjustParameters ()=0

5.2.1 Detailed Description

class AdaptBehavior -

Definition at line 5 of file AdaptBehavior.h.

5.2.2 Member Function Documentation

5.2.2.1 virtual void AdaptBehavior::adjustParameters() [pure virtual]

Reimplemented from TrainingBehavior.

Implemented in ADAPTgd, and ADAPTgdwm.

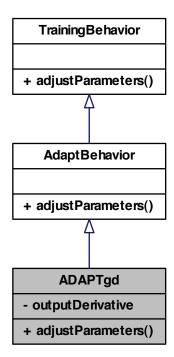
The documentation for this class was generated from the following file:

• pkg/AMORE/src/dia/AdaptBehavior.h

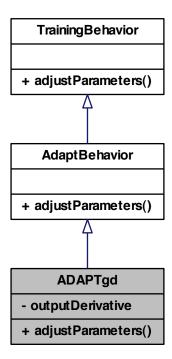
5.3 ADAPTgd Class Reference

class ADAPTgd #include <ADAPTgd.h>

Inheritance diagram for ADAPTgd:



Collaboration diagram for ADAPTgd:



Public Member Functions

• void adjustParameters ()

Private Attributes

• double outputDerivative

5.3.1 Detailed Description

class ADAPTgd -

Definition at line 5 of file ADAPTgd.h.

5.3.2 Member Function Documentation

5.3.2.1 void ADAPTgd::adjustParameters() [virtual]

Implements AdaptBehavior.

5.3.3 Member Data Documentation

5.3.3.1 double ADAPTgd::outputDerivative [private]

Definition at line 8 of file ADAPTgd.h.

The documentation for this class was generated from the following file:

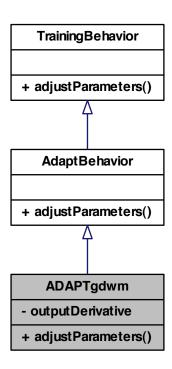
• pkg/AMORE/src/dia/ADAPTgd.h

5.4 ADAPTgdwm Class Reference

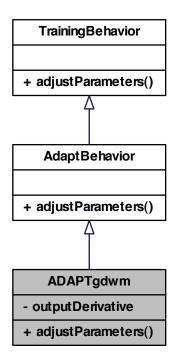
class ADAPTgdwm -

#include <ADAPTgdwm.h>

Inheritance diagram for ADAPTgdwm:



Collaboration diagram for ADAPTgdwm:



Public Member Functions

• void adjustParameters ()

Private Attributes

• double outputDerivative

5.4.1 Detailed Description

class ADAPTgdwm -

Definition at line 5 of file ADAPTgdwm.h.

5.4.2 Member Function Documentation

5.4.2.1 void ADAPTgdwm::adjustParameters() [virtual]

Implements AdaptBehavior.

5.4.3 Member Data Documentation

5.4.3.1 double ADAPTgdwm::outputDerivative [private]

Definition at line 8 of file ADAPTgdwm.h.

The documentation for this class was generated from the following file:

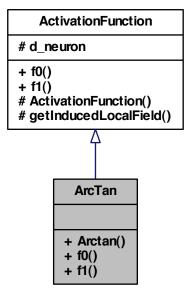
• pkg/AMORE/src/dia/ADAPTgdwm.h

5.5 ArcTan Class Reference

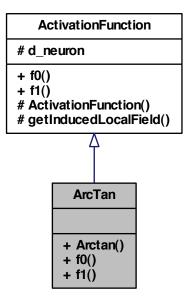
class ArcTan -

#include <ArcTan.h>

Inheritance diagram for ArcTan:



Collaboration diagram for ArcTan:



Public Member Functions

- Arctan (NeuronPtr neuronPtr)
- double f0 ()
- double f1 ()

5.5.1 Detailed Description

class ArcTan -

Definition at line 5 of file ArcTan.h.

5.5.2 Member Function Documentation

5.5.2.1 ArcTan::Arctan (NeuronPtr neuronPtr)

5.5.2.2 double ArcTan::f0() [virtual]

Implements ActivationFunction.

5.5.2.3 double ArcTan::f1() [virtual]

Implements ActivationFunction.

The documentation for this class was generated from the following file:

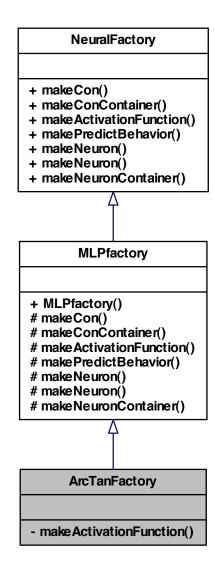
• pkg/AMORE/src/dia/ArcTan.h

5.6 ArcTanFactory Class Reference

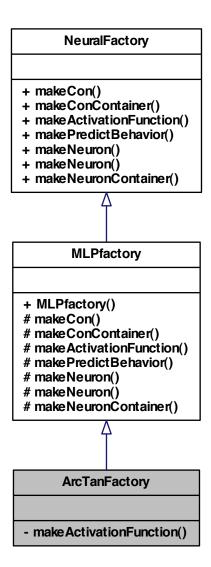
class ArcTanFactory -

#include <ArcTanFactory.h>

Inheritance diagram for ArcTanFactory:



Collaboration diagram for ArcTanFactory:



Private Member Functions

• ActivationFunctionPtr makeActivationFunction (NeuronPtr neuronPtr)

5.6.1 Detailed Description

class ArcTanFactory -

Definition at line 5 of file ArcTanFactory.h.

5.6.2 Member Function Documentation

5.6.2.1 ActivationFunctionPtr ArcTanFactory::makeActivationFunction(NeuronPtr neuronPtr) [private, virtual]

Implements MLPfactory.

The documentation for this class was generated from the following file:

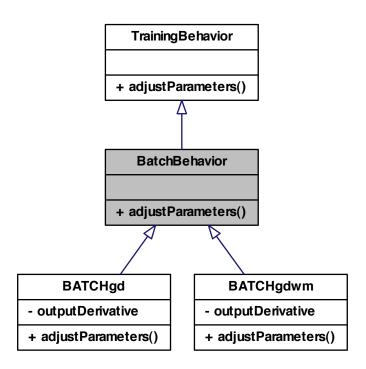
• pkg/AMORE/src/dia/ArcTanFactory.h

5.7 BatchBehavior Class Reference

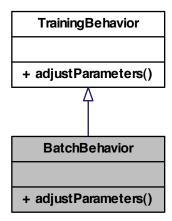
class BatchBehavior -

#include <BatchBehavior.h>

Inheritance diagram for BatchBehavior:



Collaboration diagram for BatchBehavior:



Public Member Functions

• virtual void adjustParameters ()=0

5.7.1 Detailed Description

class BatchBehavior -

Definition at line 5 of file BatchBehavior.h.

5.7.2 Member Function Documentation

5.7.2.1 virtual void BatchBehavior::adjustParameters() [pure virtual]

Reimplemented from TrainingBehavior.

Implemented in BATCHgd, and BATCHgdwm.

The documentation for this class was generated from the following file:

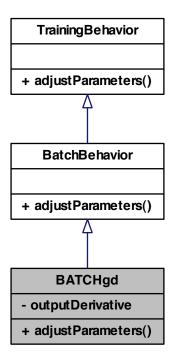
• pkg/AMORE/src/dia/BatchBehavior.h

5.8 BATCHgd Class Reference

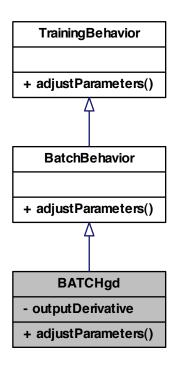
class BATCHgd -

#include <BATCHgd.h>

Inheritance diagram for BATCHgd:



Collaboration diagram for BATCHgd:



Public Member Functions

• void adjustParameters ()

Private Attributes

• double outputDerivative

5.8.1 Detailed Description

class BATCHgd -

Definition at line 5 of file BATCHgd.h.

5.8.2 Member Function Documentation

5.8.2.1 void BATCHgd::adjustParameters() [virtual]
Implements BatchBehavior.

5.8.3 Member Data Documentation

5.8.3.1 double BATCHgd::outputDerivative [private]

Definition at line 8 of file BATCHgd.h.

The documentation for this class was generated from the following file:

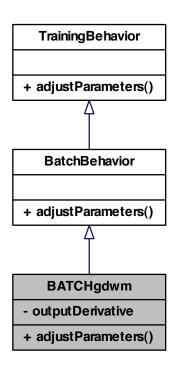
• pkg/AMORE/src/dia/BATCHgd.h

5.9 BATCHgdwm Class Reference

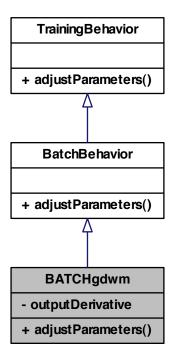
class BATCHgdwm -

#include <BATCHgdwm.h>

Inheritance diagram for BATCHgdwm:



Collaboration diagram for BATCHgdwm:



Public Member Functions

• void adjustParameters ()

Private Attributes

• double outputDerivative

5.9.1 Detailed Description

class BATCHgdwm -

Definition at line 5 of file BATCHgdwm.h.

5.9.2 Member Function Documentation

```
5.9.2.1 void BATCHgdwm::adjustParameters() [virtual]
```

Implements BatchBehavior.

5.9.3 Member Data Documentation

```
5.9.3.1 double BATCHgdwm::outputDerivative [private]
```

Definition at line 8 of file BATCHgdwm.h.

The documentation for this class was generated from the following file:

• pkg/AMORE/src/dia/BATCHgdwm.h

5.10 Con Class Reference

```
class Con -
```

```
#include <Con.h>
```

Public Member Functions

• Con (Neuron &neuron)

Constructor.

• Con (Neuron &neuron, double weight)

Constructor.

• Handler Id ()

A getter of the Id of the Neuron pointed by the from field.

• Neuron & getNeuron ()

from field accessor.

- void setNeuron (Neuron &neuron)
- double getWeight ()

weight field accessor.

- void setWeight (double weight)
- void show ()

Pretty print of the Con information.

• bool validate ()

Object validator.

Private Attributes

- NeuronRef d_neuron
- double d_weight

5.10.1 Detailed Description

class Con -

Definition at line 3 of file Con.h.

5.10.2 Constructor & Destructor Documentation

```
5.10.2.1 Con::Con ( Neuron & neuron )
```

Constructor.

Definition at line 19 of file Con.cpp.

```
:
    d_neuron( boost::ref(neuron) ), d_weight(0)
{
}
```

5.10.2.2 Con::Con (Neuron & neuron, double weight)

Constructor.

Definition at line 30 of file Con.cpp.

```
:
    d_neuron(boost::ref(neuron)), d_weight(weight)
{
}
```

5.10.3 Member Function Documentation

5.10.3.1 Neuron & Con::getNeuron ()

from field accessor.

This method allows access to the address stored in the private from field (a pointer to a Neuron object).*

Returns

A pointer to the Neuron object referred to by the from field.

See also

getId and the unit test files, e.g., runit.Cpp.Con.R, for further examples.

Definition at line 56 of file Con.cpp.

References d_neuron.

```
{
  return d_neuron;
}
```

5.10.3.2 double Con::getWeight ()

weight field accessor.

This method allows access to the value stored in the private field weight

Returns

The value of weight (double)

See also

setWeight and the unit test files, e.g., runit.Cpp.Con.R, for further examples.

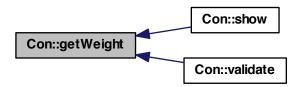
Definition at line 116 of file Con.cpp.

References d_weight.

Referenced by show(), and validate().

```
return d_weight;
}
```

Here is the caller graph for this function:



```
5.10.3.3 int Con::ld ( )
```

A getter of the Id of the Neuron pointed by the from field.

This method gets the Id of the Neuron referred to by the from field

Returns

The value of the Id (an integer).

See also

getFrom, setFrom and the unit test files, e.g., runit.Cpp.Con.R, for further examples.

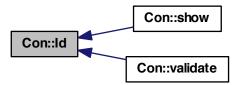
Definition at line 88 of file Con.cpp.

References d_neuron.

Referenced by show(), and validate().

```
{
  return d_neuron.get().getId();
}
```

Here is the caller graph for this function:



```
5.10.3.4 void Con::setNeuron ( Neuron & neuron )
```

Definition at line 63 of file Con.cpp.

References d_neuron.

```
{
  d_neuron=boost::ref(neuron);
}
```

5.10.3.5 void Con::setWeight (double weight)

Definition at line 123 of file Con.cpp.

References d_weight.

```
{
   d_weight=weight;
}
```

5.10.3.6 void Con::show()

Pretty print of the Con information.

This method outputs in the R terminal the contents of the Con fields.

Returns

true in case everything works without throwing an exception

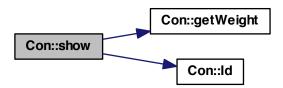
See also

setWeight and the unit test files, e.g., runit.Cpp.Con.R, for usage examples.

Definition at line 135 of file Con.cpp.

References getWeight(), and Id().

Here is the call graph for this function:



5.10.3.7 bool Con::validate ()

Object validator.

This method checks the object for internal coherence. A try / catch mechanism exits normal execution and returns control to the R terminal in case the contents of the Con object are identified as corrupted.

Returns

true in case the checks are Ok.

Exceptions

```
An std::range error if weight or from are not finite.
```

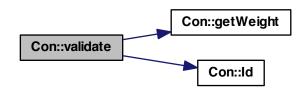
Definition at line 155 of file Con.cpp.

References getWeight(), and Id().

{

```
BEGIN_RCPP
if (! R_FINITE(getWeight()) ) throw std::range_error("weight is not finite.");
if (Id() == NA_INTEGER)
    throw std::range_error("fromId is not finite.");
return (true);
END_RCPP}
```

Here is the call graph for this function:



5.10.4 Member Data Documentation

5.10.4.1 NeuronRef Con::d_neuron [private]

Definition at line 6 of file Con.h.

Referenced by getNeuron(), Id(), and setNeuron().

```
5.10.4.2 double Con::d_weight [private]
```

Definition at line 7 of file Con.h.

Referenced by getWeight(), and setWeight().

The documentation for this class was generated from the following files:

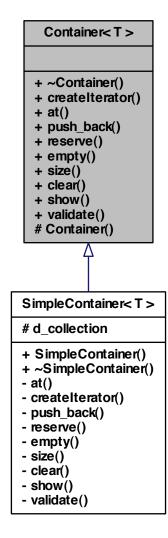
- pkg/AMORE/src/dia/Con.h
- pkg/AMORE/src/Con.cpp

5.11 Container < T > Class Template Reference

class Container -

#include <Container.h>

Inheritance diagram for Container< T >:



Public Member Functions

- virtual ∼Container ()
- virtual boost::shared_ptr< lterator< T >> createlterator ()=0
- virtual T at (size_type element)=0
- virtual void push_back (T const &const_reference)=0
- virtual void reserve (int n)=0

}

Implemented in SimpleContainer< T >.

Implemented in SimpleContainer< T >.

virtual]

```
• virtual bool empty ()=0
    • virtual size_type size ()=0
    • virtual void clear ()=0
    • virtual void show ()=0
    • virtual bool validate ()=0
Protected Member Functions
    • Container ()
5.11.1 Detailed Description
template<typename T>class Container< T>
class Container -
Definition at line 5 of file Container.h.
5.11.2 Constructor & Destructor Documentation
5.11.2.1 template<typename T > Container < T > :: \sim Container ( ) [virtual]
Definition at line 20 of file Container.cpp.
5.11.2.2 template<typename T > Container< T >::Container( ) [protected]
Definition at line 14 of file Container.cpp.
5.11.3 Member Function Documentation
5.11.3.1 template<typename T > virtual T Container< T >::at ( size_type element )
         [pure virtual]
```

5.11.3.2 template < typename T > virtual void Container < T >::clear () [pure

```
5.11.3.3 template < typename T > virtual boost::shared_ptr < Iterator < T > Container < T
        >::createlterator( ) [pure virtual]
Implemented in SimpleContainer< T >.
5.11.3.4 template<typename T > virtual bool Container< T >::empty ( ) [pure
        virtual]
Implemented in SimpleContainer< T >.
5.11.3.5 template < typename T > virtual void Container < T >::push_back ( T const &
        const_reference ) [pure virtual]
Implemented in SimpleContainer< T >.
5.11.3.6 template<typename T > virtual void Container< T >::reserve ( int n ) [pure
        virtual]
Implemented in SimpleContainer< T >.
5.11.3.7 template<typename T > virtual void Container< T >::show ( ) [pure
        virtual]
Implemented in SimpleContainer< T >.
5.11.3.8 template<typename T > virtual size_type Container< T >::size ( ) [pure
        virtual]
Implemented in SimpleContainer< T >.
5.11.3.9 template<typename T > virtual bool Container< T >::validate ( ) [pure
        virtual]
Implemented in SimpleContainer< T >.
The documentation for this class was generated from the following files:
```

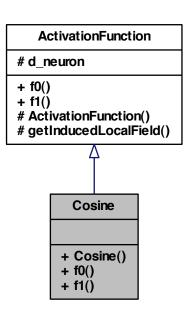
- pkg/AMORE/src/dia/Container.h
- pkg/AMORE/src/Container.cpp

5.12 Cosine Class Reference

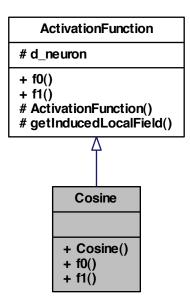
class Cosine -

#include <Cosine.h>

Inheritance diagram for Cosine:



Collaboration diagram for Cosine:



Public Member Functions

- Cosine (NeuronPtr neuronPtr)
- double f0 ()
- double f1 ()

5.12.1 Detailed Description

class Cosine -

Definition at line 5 of file Cosine.h.

5.12.2 Constructor & Destructor Documentation

- 5.12.2.1 Cosine::Cosine (NeuronPtr neuronPtr)
- 5.12.3 Member Function Documentation

```
5.12.3.1 double Cosine::f0() [virtual]
```

Implements ActivationFunction.

```
5.12.3.2 double Cosine::f1() [virtual]
```

Implements ActivationFunction.

The documentation for this class was generated from the following file:

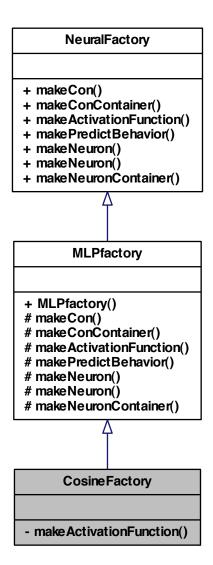
• pkg/AMORE/src/dia/Cosine.h

5.13 CosineFactory Class Reference

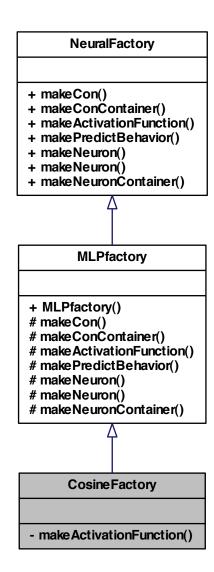
```
class CosineFactory -
```

#include <CosineFactory.h>

Inheritance diagram for CosineFactory:



Collaboration diagram for CosineFactory:



Private Member Functions

• ActivationFunctionPtr makeActivationFunction (NeuronPtr neuronPtr)

5.13.1 Detailed Description

class CosineFactory -

Definition at line 5 of file CosineFactory.h.

5.13.2 Member Function Documentation

5.13.2.1 ActivationFunctionPtr CosineFactory::makeActivationFunction (NeuronPtr neuronPtr) [private, virtual]

Implements MLPfactory.

The documentation for this class was generated from the following file:

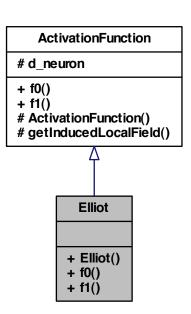
• pkg/AMORE/src/dia/CosineFactory.h

5.14 Elliot Class Reference

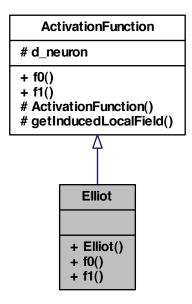
class Elliot -

#include <Elliot.h>

Inheritance diagram for Elliot:



Collaboration diagram for Elliot:



Public Member Functions

- Elliot (NeuronPtr neuronPtr)
- double f0 ()
- double f1 ()

5.14.1 Detailed Description

class Elliot -

Definition at line 5 of file Elliot.h.

5.14.2 Constructor & Destructor Documentation

5.14.2.1 Elliot::Elliot (NeuronPtr neuronPtr)

5.14.3 Member Function Documentation

```
5.14.3.1 double Elliot::f0() [virtual]
```

Implements ActivationFunction.

```
5.14.3.2 double Elliot::f1() [virtual]
```

Implements ActivationFunction.

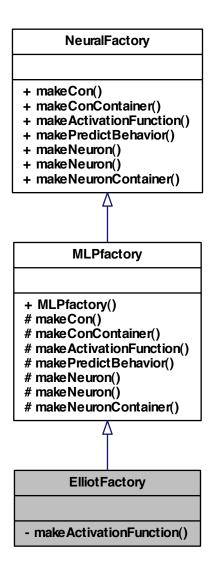
The documentation for this class was generated from the following file:

• pkg/AMORE/src/dia/Elliot.h

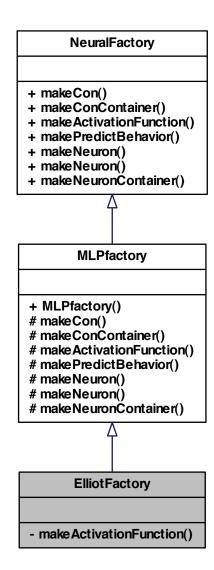
5.15 ElliotFactory Class Reference

```
class ElliotFactory -
#include <ElliotFactory.h>
```

Inheritance diagram for ElliotFactory:



Collaboration diagram for ElliotFactory:



Private Member Functions

• ActivationFunctionPtr makeActivationFunction (NeuronPtr neuronPtr)

5.15.1 Detailed Description

class ElliotFactory -

Definition at line 5 of file ElliotFactory.h.

5.15.2 Member Function Documentation

5.15.2.1 ActivationFunctionPtr ElliotFactory::makeActivationFunction (NeuronPtr neuronPtr) [private, virtual]

Implements MLPfactory.

The documentation for this class was generated from the following file:

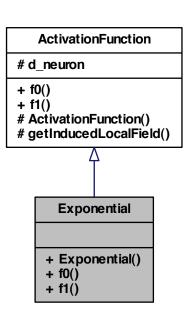
• pkg/AMORE/src/dia/ElliotFactory.h

5.16 Exponential Class Reference

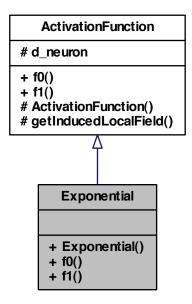
class Exponential -

#include <Exponential.h>

Inheritance diagram for Exponential:



Collaboration diagram for Exponential:



Public Member Functions

- Exponential (NeuronPtr neuronPtr)
- double f0 ()
- double f1 ()

5.16.1 Detailed Description

class Exponential -

Definition at line 5 of file Exponential.h.

- 5.16.2 Constructor & Destructor Documentation
- 5.16.2.1 Exponential::Exponential (NeuronPtr neuronPtr)
- 5.16.3 Member Function Documentation

```
5.16.3.1 double Exponential::f0() [virtual]
```

Implements ActivationFunction.

```
5.16.3.2 double Exponential::f1() [virtual]
```

Implements ActivationFunction.

The documentation for this class was generated from the following file:

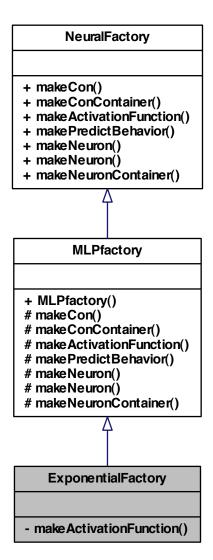
• pkg/AMORE/src/dia/Exponential.h

5.17 ExponentialFactory Class Reference

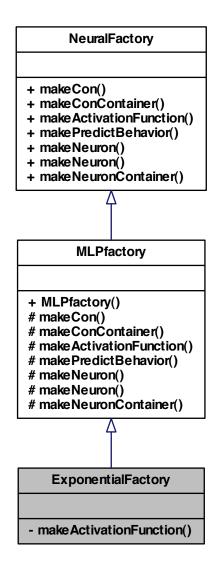
```
class ExponentialFactory -
```

#include <ExponentialFactory.h>

Inheritance diagram for ExponentialFactory:



Collaboration diagram for ExponentialFactory:



Private Member Functions

• ActivationFunctionPtr makeActivationFunction (NeuronPtr neuronPtr)

5.17.1 Detailed Description

class ExponentialFactory -

Definition at line 5 of file ExponentialFactory.h.

5.17.2 Member Function Documentation

5.17.2.1 ActivationFunctionPtr ExponentialFactory::makeActivationFunction(NeuronPtr neuronPtr) [private, virtual]

Implements MLPfactory.

The documentation for this class was generated from the following file:

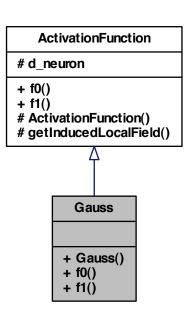
• pkg/AMORE/src/dia/ExponentialFactory.h

5.18 Gauss Class Reference

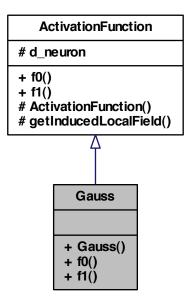
class Gauss -

#include <Gauss.h>

Inheritance diagram for Gauss:



Collaboration diagram for Gauss:



Public Member Functions

- Gauss (NeuronPtr neuronPtr)
- double f0 ()
- double f1 ()

5.18.1 Detailed Description

class Gauss -

Definition at line 5 of file Gauss.h.

- 5.18.2 Constructor & Destructor Documentation
- 5.18.2.1 Gauss::Gauss (NeuronPtr neuronPtr)
- 5.18.3 Member Function Documentation

```
5.18.3.1 double Gauss::f0() [virtual]
```

Implements ActivationFunction.

```
5.18.3.2 double Gauss::f1() [virtual]
```

Implements ActivationFunction.

The documentation for this class was generated from the following file:

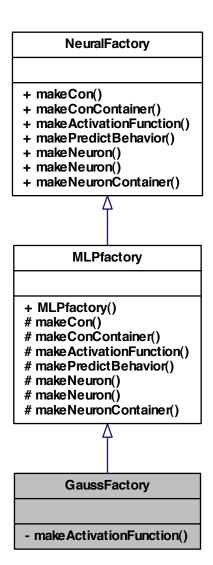
• pkg/AMORE/src/dia/Gauss.h

5.19 GaussFactory Class Reference

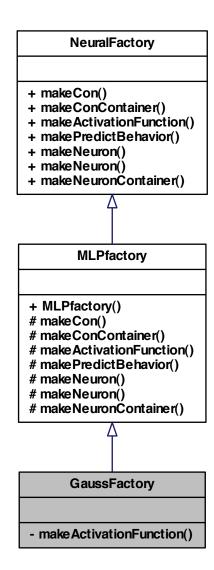
```
class GaussFactory -
```

```
#include <GaussFactory.h>
```

Inheritance diagram for GaussFactory:



Collaboration diagram for GaussFactory:



Private Member Functions

• ActivationFunctionPtr makeActivationFunction (NeuronPtr neuronPtr)

5.19.1 Detailed Description

class GaussFactory -

Definition at line 5 of file GaussFactory.h.

5.19.2 Member Function Documentation

5.19.2.1 ActivationFunctionPtr GaussFactory::makeActivationFunction(NeuronPtr neuronPtr) [private, virtual]

Implements MLPfactory.

The documentation for this class was generated from the following file:

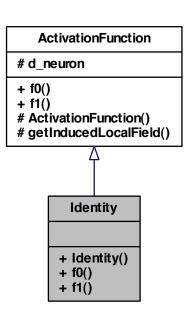
• pkg/AMORE/src/dia/GaussFactory.h

5.20 Identity Class Reference

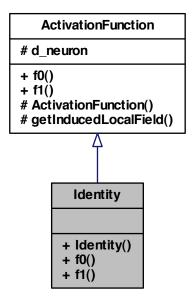
class Identity -

#include <Identity.h>

Inheritance diagram for Identity:



Collaboration diagram for Identity:



Public Member Functions

- Identity (NeuronPtr neuronPtr)
- double f0 ()
- double f1 ()

5.20.1 Detailed Description

class Identity -

Definition at line 5 of file Identity.h.

5.20.2 Constructor & Destructor Documentation

5.20.2.1 Identity::Identity (NeuronPtr neuronPtr)

Definition at line 12 of file Identity.cpp.

: ActivationFunction(neuronPtr) {

}

5.20.3 Member Function Documentation

```
5.20.3.1 double Identity::f0() [virtual]
```

Implements ActivationFunction.

Definition at line 16 of file Identity.cpp.

References ActivationFunction::getInducedLocalField().

```
{
  return getInducedLocalField();
}
```

Here is the call graph for this function:



```
5.20.3.2 double Identity::f1() [virtual]
```

Implements ActivationFunction.

Definition at line 20 of file Identity.cpp.

```
return 1 ; }
```

The documentation for this class was generated from the following files:

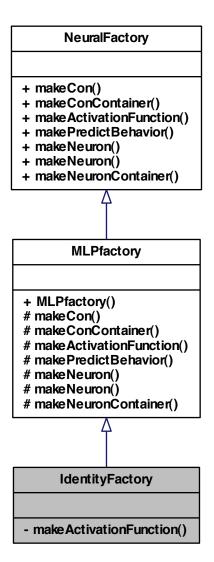
- pkg/AMORE/src/dia/Identity.h
- pkg/AMORE/src/ldentity.cpp

5.21 IdentityFactory Class Reference

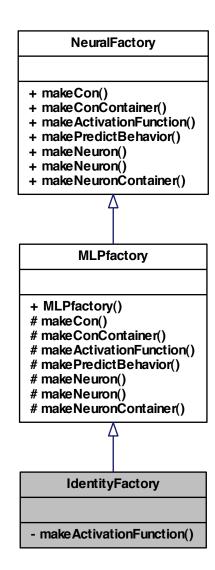
class IdentityFactory -

#include <IdentityFactory.h>

Inheritance diagram for IdentityFactory:



Collaboration diagram for IdentityFactory:



Private Member Functions

• ActivationFunctionPtr makeActivationFunction (NeuronPtr neuronPtr)

5.21.1 Detailed Description

class IdentityFactory -

Definition at line 5 of file IdentityFactory.h.

5.21.2 Member Function Documentation

5.21.2.1 ActivationFunctionPtr IdentityFactory::makeActivationFunction (NeuronPtr neuronPtr) [private, virtual]

Implements MLPfactory.

Definition at line 17 of file IdentityFactory.cpp.

```
{
   ActivationFunctionPtr activationFunctionPtr(new Identity(neuronPtr));
   return activationFunctionPtr;
}
```

The documentation for this class was generated from the following files:

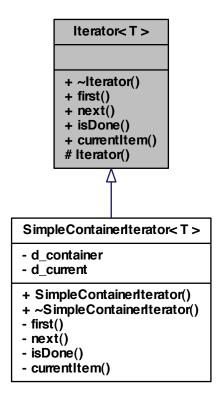
- pkg/AMORE/src/dia/IdentityFactory.h
- pkg/AMORE/src/IdentityFactory.cpp

5.22 Iterator < T > Class Template Reference

```
class Iterator -
```

```
#include <Iterator.h>
```

Inheritance diagram for Iterator< T >:



Public Member Functions

- virtual ∼lterator ()
- virtual void first ()=0
- virtual void next ()=0
- virtual bool isDone ()=0
- virtual T currentItem ()=0

Protected Member Functions

• Iterator ()

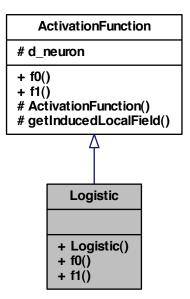
5.22.1 Detailed Description

```
template<typename T>class Iterator< T>
class Iterator -
Definition at line 5 of file Iterator.h.
5.22.2 Constructor & Destructor Documentation
5.22.2.1 template<typename T > Iterator< T >::~Iterator( ) [virtual]
Definition at line 20 of file Iterator.cpp.
5.22.2.2 template<typename T > lterator< T >::lterator( ) [protected]
Definition at line 14 of file Iterator.cpp.
        Member Function Documentation
5.22.3
5.22.3.1 template < typename T > virtual T lterator < T >::currentltem ( ) [pure
        virtuall
Implemented in SimpleContainerIterator< T >.
5.22.3.2 template<typename T > virtual void Iterator< T >::first ( ) [pure
        virtual]
Implemented in SimpleContainerIterator< T >.
5.22.3.3 template<typename T > virtual bool Iterator < T >::isDone ( ) [pure
        virtual]
Implemented in SimpleContainerIterator< T >.
5.22.3.4 template<typename T > virtual void Iterator< T >::next ( ) [pure
        virtual]
Implemented in SimpleContainerIterator< T >.
The documentation for this class was generated from the following files:
```

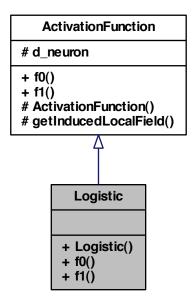
- pkg/AMORE/src/dia/lterator.h
- pkg/AMORE/src/Iterator.cpp

5.23 Logistic Class Reference

```
class Logistic -
#include <Logistic.h>
Inheritance diagram for Logistic:
```



Collaboration diagram for Logistic:



Public Member Functions

- Logistic (NeuronPtr neuronPtr)
- double f0 ()
- double f1 ()

5.23.1 Detailed Description

class Logistic -

Definition at line 5 of file Logistic.h.

- 5.23.2 Constructor & Destructor Documentation
- 5.23.2.1 Logistic::Logistic (NeuronPtr neuronPtr)
- 5.23.3 Member Function Documentation

```
5.23.3.1 double Logistic::f0() [virtual]
```

Implements ActivationFunction.

```
5.23.3.2 double Logistic::f1() [virtual]
```

Implements ActivationFunction.

The documentation for this class was generated from the following file:

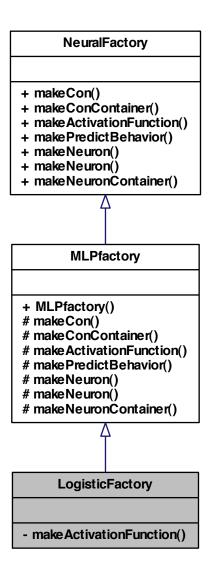
• pkg/AMORE/src/dia/Logistic.h

5.24 LogisticFactory Class Reference

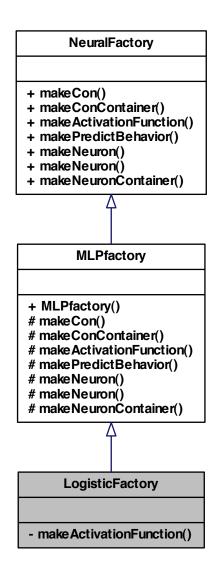
```
class LogisticFactory -
```

#include <LogisticFactory.h>

Inheritance diagram for LogisticFactory:



Collaboration diagram for LogisticFactory:



Private Member Functions

• ActivationFunctionPtr makeActivationFunction (NeuronPtr neuronPtr)

5.24.1 Detailed Description

class LogisticFactory -

Definition at line 5 of file LogisticFactory.h.

5.24.2 Member Function Documentation

5.24.2.1 ActivationFunctionPtr LogisticFactory::makeActivationFunction (NeuronPtr neuronPtr) [private, virtual]

Implements MLPfactory.

The documentation for this class was generated from the following file:

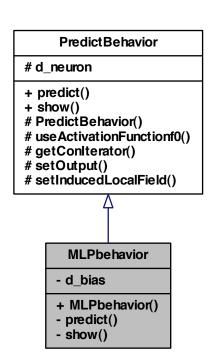
• pkg/AMORE/src/dia/LogisticFactory.h

5.25 MLPbehavior Class Reference

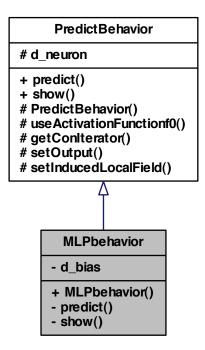
class MLPbehavior -

#include <MLPbehavior.h>

Inheritance diagram for MLPbehavior:



Collaboration diagram for MLPbehavior:



Public Member Functions

• MLPbehavior (NeuronPtr neuronPtr)

Private Member Functions

- void predict ()
- void show ()

Private Attributes

• double d_bias

Friends

class MLPfactory

5.25.1 Detailed Description

class MLPbehavior -

Definition at line 5 of file MLPbehavior.h.

5.25.2 Constructor & Destructor Documentation

```
5.25.2.1 MLPbehavior::MLPbehavior ( NeuronPtr neuronPtr )
```

Definition at line 13 of file MLPbehavior.cpp.

```
PredictBehavior(neuronPtr) , d_bias(0.0)
{
}
```

5.25.3 Member Function Documentation

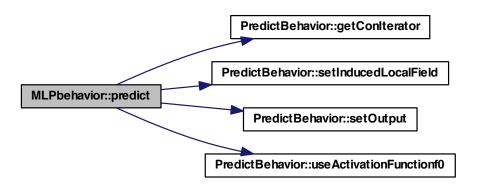
```
5.25.3.1 void MLPbehavior::predict( ) [private, virtual]
```

Implements PredictBehavior.

Definition at line 19 of file MLPbehavior.cpp.

 $References\ d_bias,\ PredictBehavior::getConIterator(),\ PredictBehavior::setInducedLocalField(),\ PredictBehavior::setOutput(),\ and\ PredictBehavior::useActivationFunctionf0().$

Here is the call graph for this function:



```
5.25.3.2 void MLPbehavior::show() [private, virtual]
```

Implements PredictBehavior.

Definition at line 38 of file MLPbehavior.cpp.

References d_bias.

```
{
   Rprintf("\n bias: %lf", d_bias);
}
```

5.25.4 Friends And Related Function Documentation

5.25.4.1 friend class MLPfactory [friend]

Definition at line 11 of file MLPbehavior.h.

5.25.5 Member Data Documentation

5.25.5.1 double MLPbehavior::d_bias [private]

Definition at line 8 of file MLPbehavior.h.

Referenced by MLPfactory::makeNeuron(), predict(), and show().

The documentation for this class was generated from the following files:

- pkg/AMORE/src/dia/MLPbehavior.h
- pkg/AMORE/src/MLPbehavior.cpp

5.26 MLPfactory Class Reference

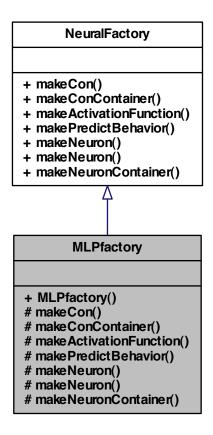
class MLPfactory -

#include <MLPfactory.h>

Inheritance diagram for MLPfactory:



Collaboration diagram for MLPfactory:



Public Member Functions

• MLPfactory ()

Protected Member Functions

- ConPtr makeCon (Neuron &neuron, double weight)
- ConContainerPtr makeConContainer ()
- virtual ActivationFunctionPtr makeActivationFunction (NeuronPtr neuronPtr)=0
- PredictBehaviorPtr makePredictBehavior (NeuronPtr neuronPtr)
- NeuronPtr makeNeuron (Handler Id)
- NeuronPtr makeNeuron (Handler Id, NeuronIteratorPtr neuronIteratorPtr, double totalAmountOfParameters)

• NeuronContainerPtr makeNeuronContainer ()

5.26.1 Detailed Description

```
class MLPfactory -
```

Definition at line 5 of file MLPfactory.h.

5.26.2 Constructor & Destructor Documentation

```
5.26.2.1 MLPfactory::MLPfactory ( )
```

Definition at line 13 of file MLPfactory.cpp.

{ }

5.26.3 Member Function Documentation

5.26.3.1 virtual ActivationFunctionPtr MLPfactory::makeActivationFunction(NeuronPtr neuronPtr) [protected, pure virtual]

Implements NeuralFactory.

Implemented in ArcTanFactory, CosineFactory, ElliotFactory, ExponentialFactory, Gauss-Factory, IdentityFactory, LogisticFactory, ReciprocalFactory, SineFactory, SquareFactory, TanhFactory, and ThresholdFactory.

Referenced by makeNeuron().

Here is the caller graph for this function:



Implements NeuralFactory.

Definition at line 19 of file MLPfactory.cpp.

Referenced by makeNeuron().

```
{
  ConPtr conPtr(new Con(neuron, weight));
  return conPtr;
}
```

Here is the caller graph for this function:



```
5.26.3.3 ConContainerPtr MLPfactory::makeConContainer( ) [protected, virtual]
```

Implements NeuralFactory.

Definition at line 26 of file MLPfactory.cpp.

```
{
   ConContainerPtr conContainerPtr(new SimpleContainer<ConPtr> );
   return conContainerPtr;
}
```

5.26.3.4 NeuronPtr MLPfactory::makeNeuron (Handler *Id*) [protected, virtual]

Implements NeuralFactory.

Definition at line 40 of file MLPfactory.cpp.

References makeActivationFunction(), and makePredictBehavior().

Referenced by makeNeuron().

```
NeuronPtr neuronPtr(new SimpleNeuron(*this));
neuronPtr->setId(Id);
neuronPtr->setPredictBehavior(makePredictBehavior(neuronPtr));
neuronPtr->setActivationFunction(makeActivationFunction(neuronPtr));
return neuronPtr;
```

Here is the call graph for this function:



Here is the caller graph for this function:



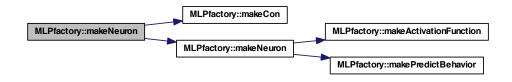
5.26.3.5 NeuronPtr MLPfactory::makeNeuron (Handler Id, NeuronIteratorPtr neuronIteratorPtr, double totalAmountOfParameters) [protected, virtual]

Implements NeuralFactory.

Definition at line 50 of file MLPfactory.cpp.

References MLPbehavior::d_bias, makeCon(), and makeNeuron().

Here is the call graph for this function:



```
5.26.3.6 NeuronContainerPtr MLPfactory::makeNeuronContainer( ) [protected, virtual]
```

Implements NeuralFactory.

Definition at line 72 of file MLPfactory.cpp.

```
{
  NeuronContainerPtr neuronContainerPtr(new SimpleContainer<NeuronPtr> );
  return neuronContainerPtr;
}
```

5.26.3.7 PredictBehaviorPtr MLPfactory::makePredictBehavior(NeuronPtr *neuronPtr***)** [protected, virtual]

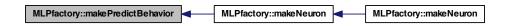
Implements NeuralFactory.

Definition at line 33 of file MLPfactory.cpp.

Referenced by makeNeuron().

```
{
   PredictBehaviorPtr predictBehaviorPtr(new MLPbehavior(neuronPtr));
   return predictBehaviorPtr;
}
```

Here is the caller graph for this function:



The documentation for this class was generated from the following files:

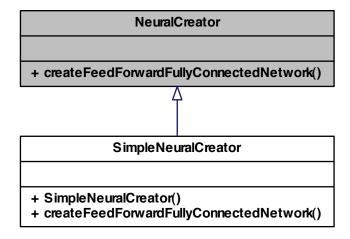
- pkg/AMORE/src/dia/MLPfactory.h
- pkg/AMORE/src/MLPfactory.cpp

5.27 NeuralCreator Class Reference

class NeuralCreator -

#include <NeuralCreator.h>

Inheritance diagram for NeuralCreator:



Public Member Functions

virtual NeuralNetworkPtr createFeedForwardFullyConnectedNetwork (NeuralFactoryPtr neuralFactoryPtr)=0

5.27.1 Detailed Description

class NeuralCreator -

Definition at line 4 of file NeuralCreator.h.

5.27.2 Member Function Documentation

5.27.2.1 virtual NeuralNetworkPtr NeuralCreator::createFeedForwardFullyConnectedNetwork (NeuralFactoryPtr neuralFactoryPtr) [pure virtual]

Implemented in SimpleNeuralCreator.

The documentation for this class was generated from the following file:

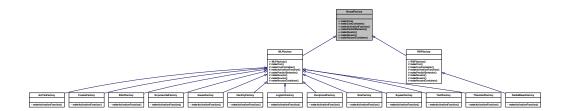
pkg/AMORE/src/dia/NeuralCreator.h

5.28 NeuralFactory Class Reference

class NeuralFactory -

#include <NeuralFactory.h>

Inheritance diagram for NeuralFactory:



Public Member Functions

- virtual ConPtr makeCon (Neuron &neuron, double weight)=0
- virtual ConContainerPtr makeConContainer ()=0
- virtual ActivationFunctionPtr makeActivationFunction (NeuronPtr neuronPtr)=0
- virtual PredictBehaviorPtr makePredictBehavior (NeuronPtr neuronPtr)=0
- virtual NeuronPtr makeNeuron (Handler Id)=0

- virtual NeuronPtr makeNeuron (Handler Id, NeuronIteratorPtr neuronIteratorPtr, double totalAmountOfParameters)=0
- virtual NeuronContainerPtr makeNeuronContainer ()=0

5.28.1 Detailed Description

class NeuralFactory -

Definition at line 4 of file NeuralFactory.h.

5.28.2 Member Function Documentation

```
5.28.2.1 virtual ActivationFunctionPtr NeuralFactory::makeActivationFunction (
NeuronPtr neuronPtr ) [pure virtual]
```

Implemented in ArcTanFactory, CosineFactory, ElliotFactory, ExponentialFactory, Gauss-Factory, IdentityFactory, LogisticFactory, MLPfactory, RadialBasisFactory, RBFfactory, ReciprocalFactory, SineFactory, SquareFactory, TanhFactory, and ThresholdFactory.

```
5.28.2.2 virtual ConPtr NeuralFactory::makeCon ( Neuron & neuron, double weight )

[pure virtual]
```

Implemented in MLPfactory.

```
5.28.2.3 virtual ConContainerPtr NeuralFactory::makeConContainer( ) [pure virtual]
```

Implemented in MLPfactory, and RBFfactory.

Referenced by Neuron::Neuron().

Here is the caller graph for this function:

NeuralFactory::makeConContainer Neuron::Neuron

```
5.28.2.4 virtual NeuronPtr NeuralFactory::makeNeuron ( Handler Id ) [pure virtual]
```

Implemented in MLPfactory, and RBFfactory.

5.28.2.5 virtual NeuronPtr NeuralFactory::makeNeuron (Handler *Id*, NeuronIteratorPtr neuronIteratorPtr, double totalAmountOfParameters) [pure virtual]

Implemented in MLPfactory, and RBFfactory.

5.28.2.6 virtual NeuronContainerPtr NeuralFactory::makeNeuronContainer() [pure virtual]

Implemented in MLPfactory, and RBFfactory.

5.28.2.7 virtual PredictBehaviorPtr NeuralFactory::makePredictBehavior(NeuronPtr neuronPtr) [pure virtual]

Implemented in MLPfactory.

The documentation for this class was generated from the following file:

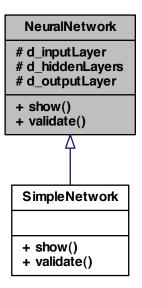
• pkg/AMORE/src/dia/NeuralFactory.h

5.29 NeuralNetwork Class Reference

class NeuralNetwork -

#include <NeuralNetwork.h>

Inheritance diagram for NeuralNetwork:



Public Member Functions

- void show ()
- bool validate ()

Protected Attributes

- LayerPtr d_inputLayer
- $\bullet \ boost:: shared_ptr < Container < LayerPtr >> d_hiddenLayers$
- LayerPtr d_outputLayer

5.29.1 Detailed Description

class NeuralNetwork -

Definition at line 3 of file NeuralNetwork.h.

5.29.2 Member Function Documentation

```
5.29.2.1 void NeuralNetwork::show ( )
```

Reimplemented in SimpleNetwork.

```
5.29.2.2 bool NeuralNetwork::validate ( )
```

Reimplemented in SimpleNetwork.

5.29.3 Member Data Documentation

Definition at line 7 of file NeuralNetwork.h.

```
5.29.3.2 LayerPtr NeuralNetwork::d_inputLayer [protected]
```

Definition at line 6 of file NeuralNetwork.h.

```
5.29.3.3 LayerPtr NeuralNetwork::d_outputLayer [protected]
```

Definition at line 8 of file NeuralNetwork.h.

The documentation for this class was generated from the following file:

• pkg/AMORE/src/dia/NeuralNetwork.h

5.30 Neuron Class Reference

```
class Neuron -
```

```
#include <Neuron.h>
```

Inheritance diagram for Neuron:

Neuron # d predictBehavior # d_activationFunction #d Id # d_nCons # d_inducedLocalField # d_output + getInducedLocalField() + setInducedLocalField() + getOutput() + setOutput() + getId() + setId() + getConIterator() + addCon() + setActivationFunction() + setPredictBehavior() + useActivationFunctionf0() + predict() + show() + validate() # Neuron() SimpleNeuron + SimpleNeuron() - getInducedLocalField() - setInducedLocalField() - getOutput() - setOutput() - getId() - setId() - getConIterator() - addCon() - setActivationFunction() - setPredictBehavior()

- useActivationFunctionf0()

predict()show()validate()

Public Member Functions

- virtual double getInducedLocalField ()=0
- virtual void setInducedLocalField (double inducedLocalField)=0
- virtual double getOutput ()=0
- virtual void setOutput (double output)=0
- virtual Handler getId ()=0
- virtual void setId (Handler Id)=0
- virtual ConIteratorPtr getConIterator ()=0
- virtual void addCon (ConPtr conPtr)=0
- virtual void setActivationFunction (ActivationFunctionPtr activationFunctionPtr)=0
- virtual void setPredictBehavior (PredictBehaviorPtr predictBehaviorPtr)=0
- virtual double useActivationFunctionf0 ()=0
- virtual void predict ()=0
- virtual void show ()=0
- virtual bool validate ()=0

Protected Member Functions

• Neuron (NeuralFactory &neuralFactory)

Protected Attributes

- · PredictBehaviorPtr d predictBehavior
- ActivationFunctionPtr d_activationFunction
- · Handler d Id
- · ConContainerPtr d nCons
- double d_inducedLocalField
- double d output

Friends

class MLPfactory

5.30.1 Detailed Description

class Neuron -

Definition at line 3 of file Neuron.h.

5.30.2 Constructor & Destructor Documentation

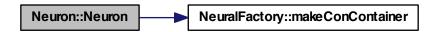
```
5.30.2.1 Neuron::Neuron ( NeuralFactory & neuralFactory ) [protected]
```

Definition at line 10 of file Neuron.cpp.

References d_nCons, and NeuralFactory::makeConContainer().

```
d_Id(NA_INTEGER), d_inducedLocalField(0.0), d_output(0.0)
{
    d_nCons = neuralFactory.makeConContainer();
}
```

Here is the call graph for this function:



```
5.30.3 Member Function Documentation
```

```
5.30.3.1 virtual void Neuron::addCon ( ConPtr conPtr ) [pure virtual]
```

Implemented in SimpleNeuron.

```
5.30.3.2 virtual ConIteratorPtr Neuron::getConIterator( ) [pure virtual]
```

Implemented in SimpleNeuron.

```
5.30.3.3 virtual Handler Neuron::getld() [pure virtual]
```

Implemented in SimpleNeuron.

5.30.3.4 virtual double Neuron::getInducedLocalField() [pure virtual]

Implemented in SimpleNeuron.

5.30.3.5 virtual double Neuron::getOutput() [pure virtual]

Implemented in SimpleNeuron.

```
5.30.3.6 virtual void Neuron::predict() [pure virtual]
Implemented in SimpleNeuron.
5.30.3.7 virtual void Neuron::setActivationFunction ( ActivationFunctionPtr
        activationFunctionPtr ) [pure virtual]
Implemented in SimpleNeuron.
5.30.3.8 virtual void Neuron::setld ( Handler Id ) [pure virtual]
Implemented in SimpleNeuron.
5.30.3.9 virtual void Neuron::setInducedLocalField ( double inducedLocalField ) [pure
        virtual]
Implemented in SimpleNeuron.
5.30.3.10 virtual void Neuron::setOutput ( double output ) [pure virtual]
Implemented in SimpleNeuron.
5.30.3.11 virtual void Neuron::setPredictBehavior ( PredictBehaviorPtr predictBehaviorPtr )
         [pure virtual]
Implemented in SimpleNeuron.
5.30.3.12 virtual void Neuron::show() [pure virtual]
Implemented in SimpleNeuron.
5.30.3.13 virtual double Neuron::useActivationFunctionf0() [pure virtual]
Implemented in SimpleNeuron.
5.30.3.14 virtual bool Neuron::validate() [pure virtual]
Implemented in SimpleNeuron.
```

5.30.4 Friends And Related Function Documentation

5.30.4.1 friend class MLPfactory [friend]

Definition at line 15 of file Neuron.h.

5.30.5 Member Data Documentation

5.30.5.1 ActivationFunctionPtr Neuron::d activationFunction [protected]

Definition at line 7 of file Neuron.h.

 $Referenced \ by \ Simple Neuron:: set Activation Function (), and \ Simple Neuron:: use Activation Function fo ().$

5.30.5.2 Handler Neuron::d_ld [protected]

Definition at line 9 of file Neuron.h.

Referenced by SimpleNeuron::getId(), and SimpleNeuron::setId().

5.30.5.3 double Neuron::d inducedLocalField [protected]

Definition at line 11 of file Neuron.h.

 $Referenced \ by \ Simple Neuron:: getInducedLocalField(), \ and \ Simple Neuron:: setInducedLocalField().$

5.30.5.4 ConContainerPtr Neuron::d_nCons [protected]

Definition at line 10 of file Neuron.h.

Referenced by SimpleNeuron::addCon(), SimpleNeuron::getConIterator(), Neuron(), and SimpleNeuron::show().

5.30.5.5 double Neuron::d_output [protected]

Definition at line 12 of file Neuron.h.

Referenced by SimpleNeuron::getOutput(), SimpleNeuron::setOutput(), and SimpleNeuron::show().

5.30.5.6 PredictBehaviorPtr Neuron::d predictBehavior [protected]

Definition at line 6 of file Neuron.h.

Referenced by SimpleNeuron::predict(), SimpleNeuron::setPredictBehavior(), and SimpleNeuron::show().

The documentation for this class was generated from the following files:

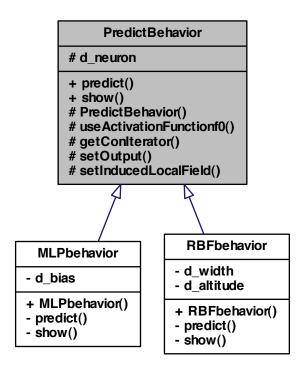
- pkg/AMORE/src/dia/Neuron.h
- pkg/AMORE/src/Neuron.cpp

5.31 PredictBehavior Class Reference

class PredictBehavior -

#include <PredictBehavior.h>

Inheritance diagram for PredictBehavior:



Public Member Functions

- virtual void predict ()=0
- virtual void show ()=0

Protected Member Functions

- PredictBehavior (NeuronPtr neuronPtr)
- double useActivationFunctionf0 ()
- ConlteratorPtr getConlterator ()
- void setOutput (double output)
- void setInducedLocalField (double inducedLocalField)

Protected Attributes

· NeuronWeakPtr d neuron

5.31.1 Detailed Description

class PredictBehavior -

Definition at line 4 of file PredictBehavior.h.

5.31.2 Constructor & Destructor Documentation

```
5.31.2.1 PredictBehavior::PredictBehavior ( NeuronPtr neuronPtr ) [protected]
```

Definition at line 11 of file PredictBehavior.cpp.

```
d_neuron(neuronPtr)
```

5.31.3 Member Function Documentation

```
5.31.3.1 ConIteratorPtr PredictBehavior::getConIterator( ) [protected]
```

Definition at line 25 of file PredictBehavior.cpp.

References d neuron.

Referenced by MLPbehavior::predict().

```
{
  NeuronPtr neuronPtr( d_neuron.lock() ) ;
  return neuronPtr->getConIterator();
}
```

Here is the caller graph for this function:

```
5.31.3.2 virtual void PredictBehavior::predict() [pure virtual]
```

Implemented in MLPbehavior, and RBFbehavior.

```
5.31.3.3 void PredictBehavior::setInducedLocalField ( double inducedLocalField ) [protected]
```

Definition at line 39 of file PredictBehavior.cpp.

References d_neuron.

Referenced by MLPbehavior::predict().

```
{
  NeuronPtr neuronPtr( d_neuron.lock() );
  return neuronPtr->setInducedLocalField(inducedLocalField);
}
```

Here is the caller graph for this function:

 $\textbf{5.31.3.4} \quad \textbf{void PredictBehavior::setOutput (double \textit{output})} \quad \texttt{[protected]}$

Definition at line 32 of file PredictBehavior.cpp.

References d neuron.

Referenced by MLPbehavior::predict().

```
{
  NeuronPtr neuronPtr( d_neuron.lock() );
  return neuronPtr->setOutput(output);
}
```

Here is the caller graph for this function:



```
5.31.3.5 virtual void PredictBehavior::show( ) [pure virtual]
```

Implemented in MLPbehavior, and RBFbehavior.

```
5.31.3.6 double PredictBehavior::useActivationFunctionf0() [protected]
```

Definition at line 17 of file PredictBehavior.cpp.

References d_neuron.

Referenced by MLPbehavior::predict().

```
{
  NeuronPtr neuronPtr( d_neuron.lock() );
  return neuronPtr->useActivationFunctionf0();
```

Here is the caller graph for this function:

```
PredictBehavior::useActivationFunctionf0  MLPbehavior::predict
```

5.31.4 Member Data Documentation

5.31.4.1 NeuronWeakPtr PredictBehavior::d_neuron [protected]

Definition at line 7 of file PredictBehavior.h.

Referenced by getConIterator(), setInducedLocalField(), setOutput(), and useActivationFunctionf0().

The documentation for this class was generated from the following files:

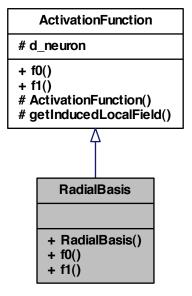
- pkg/AMORE/src/dia/PredictBehavior.h
- pkg/AMORE/src/PredictBehavior.cpp

5.32 RadialBasis Class Reference

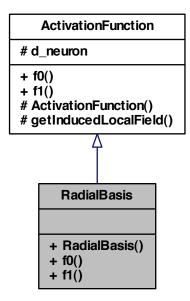
class RadialBasis -

#include <RadialBasis.h>

Inheritance diagram for RadialBasis:



Collaboration diagram for RadialBasis:



Public Member Functions

- RadialBasis (NeuronPtr neuronPtr)
- double f0 ()
- double f1 ()

5.32.1 Detailed Description

class RadialBasis -

Definition at line 5 of file RadialBasis.h.

- 5.32.2 Constructor & Destructor Documentation
- 5.32.2.1 RadialBasis::RadialBasis (NeuronPtr neuronPtr)
- 5.32.3 Member Function Documentation

```
5.32.3.1 double RadialBasis::f0() [virtual]
```

Implements ActivationFunction.

```
5.32.3.2 double RadialBasis::f1() [virtual]
```

Implements ActivationFunction.

The documentation for this class was generated from the following file:

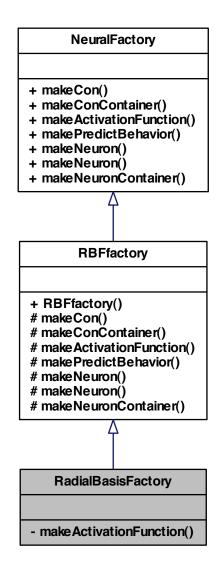
• pkg/AMORE/src/dia/RadialBasis.h

5.33 RadialBasisFactory Class Reference

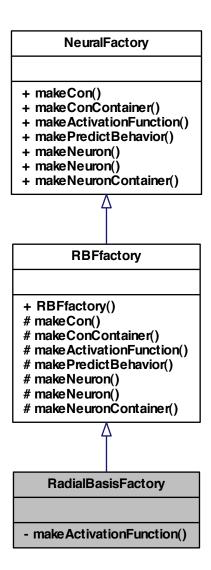
class RadialBasisFactory -

```
#include <RadialBasisFactory.h>
```

Inheritance diagram for RadialBasisFactory:



Collaboration diagram for RadialBasisFactory:



Private Member Functions

• ActivationFunctionPtr makeActivationFunction (NeuronPtr neuronPtr)

5.33.1 Detailed Description

class RadialBasisFactory -

Definition at line 5 of file RadialBasisFactory.h.

5.33.2 Member Function Documentation

5.33.2.1 ActivationFunctionPtr RadialBasisFactory::makeActivationFunction(NeuronPtr neuronPtr) [private, virtual]

Implements RBFfactory.

The documentation for this class was generated from the following file:

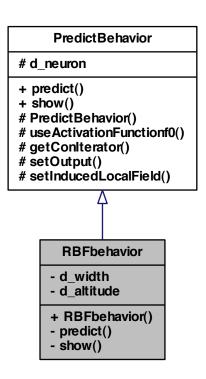
• pkg/AMORE/src/dia/RadialBasisFactory.h

5.34 RBFbehavior Class Reference

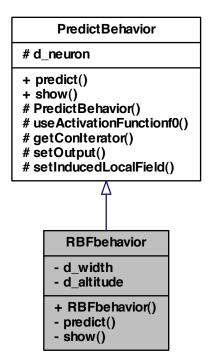
class RBFbehavior -

#include <RBFbehavior.h>

Inheritance diagram for RBFbehavior:



Collaboration diagram for RBFbehavior:



Public Member Functions

• RBFbehavior (NeuronPtr neuronPtr)

Private Member Functions

- void predict ()
- void show ()

Private Attributes

- double d_width
- double d_altitude

5.34.1 Detailed Description

```
class RBFbehavior -
```

Definition at line 5 of file RBFbehavior.h.

5.34.2 Constructor & Destructor Documentation

```
5.34.2.1 RBFbehavior::RBFbehavior ( NeuronPtr neuronPtr )
```

5.34.3 Member Function Documentation

```
5.34.3.1 void RBFbehavior::predict() [private, virtual]
```

Implements PredictBehavior.

```
5.34.3.2 void RBFbehavior::show() [private, virtual]
```

Implements PredictBehavior.

5.34.4 Member Data Documentation

```
5.34.4.1 double RBFbehavior::d_altitude [private]
```

Definition at line 9 of file RBFbehavior.h.

```
5.34.4.2 double RBFbehavior::d width [private]
```

Definition at line 8 of file RBFbehavior.h.

The documentation for this class was generated from the following file:

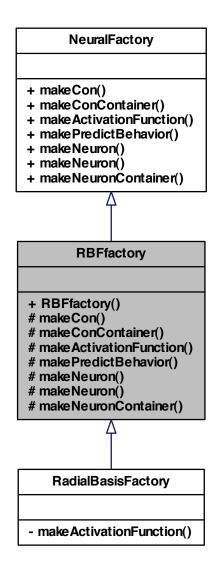
• pkg/AMORE/src/dia/RBFbehavior.h

5.35 RBFfactory Class Reference

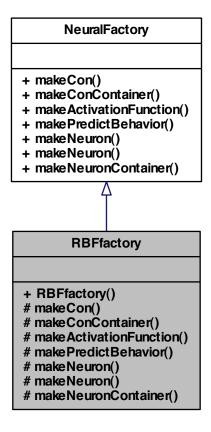
```
class RBFfactory -
```

```
#include <RBFfactory.h>
```

Inheritance diagram for RBFfactory:



Collaboration diagram for RBFfactory:



Public Member Functions

• RBFfactory ()

Protected Member Functions

- ConPtr makeCon (Neuron *neuron, double weight)
- ConContainerPtr makeConContainer ()
- virtual ActivationFunctionPtr makeActivationFunction (NeuronPtr neuronPtr)=0
- PredictBehaviorPtr makePredictBehavior ()
- NeuronPtr makeNeuron (Handler Id)
- NeuronPtr makeNeuron (Handler Id, NeuronIteratorPtr neuronIteratorPtr, double totalAmountOfParameters)

NeuronContainerPtr makeNeuronContainer ()

```
5.35.1 Detailed Description
```

```
class RBFfactory -
```

Definition at line 5 of file RBFfactory.h.

- 5.35.2 Constructor & Destructor Documentation
- 5.35.2.1 RBFfactory::RBFfactory()
- 5.35.3 Member Function Documentation
- 5.35.3.1 virtual ActivationFunctionPtr RBFfactory::makeActivationFunction(NeuronPtr neuronPtr) [protected, pure virtual]

Implements NeuralFactory.

Implemented in RadialBasisFactory.

- 5.35.3.2 ConPtr RBFfactory::makeCon (Neuron * neuron, double weight) [protected]
- **5.35.3.3 ConContainerPtr RBFfactory::makeConContainer()** [protected, virtual]

Implements NeuralFactory.

5.35.3.4 NeuronPtr RBFfactory::makeNeuron (Handler *Id*) [protected, virtual]

Implements NeuralFactory.

5.35.3.5 NeuronPtr RBFfactory::makeNeuron (Handler *Id*, NeuronIteratorPtr neuronIteratorPtr, double totalAmountOfParameters) [protected, virtual]

Implements NeuralFactory.

5.35.3.6 NeuronContainerPtr RBFfactory::makeNeuronContainer() [protected, virtual]

Implements NeuralFactory.

5.35.3.7 PredictBehaviorPtr RBFfactory::makePredictBehavior() [protected]

The documentation for this class was generated from the following file:

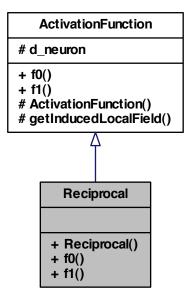
• pkg/AMORE/src/dia/RBFfactory.h

5.36 Reciprocal Class Reference

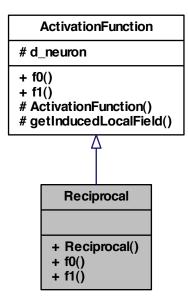
class Reciprocal -

#include <Reciprocal.h>

Inheritance diagram for Reciprocal:



Collaboration diagram for Reciprocal:



Public Member Functions

- Reciprocal (NeuronPtr neuronPtr)
- void f0 ()
- void f1 ()

5.36.1 Detailed Description

class Reciprocal -

Definition at line 5 of file Reciprocal.h.

- 5.36.2 Constructor & Destructor Documentation
- 5.36.2.1 Reciprocal::Reciprocal (NeuronPtr neuronPtr)
- 5.36.3 Member Function Documentation

```
5.36.3.1 void Reciprocal::f0() [virtual]
```

Implements ActivationFunction.

```
5.36.3.2 void Reciprocal::f1() [virtual]
```

Implements ActivationFunction.

The documentation for this class was generated from the following file:

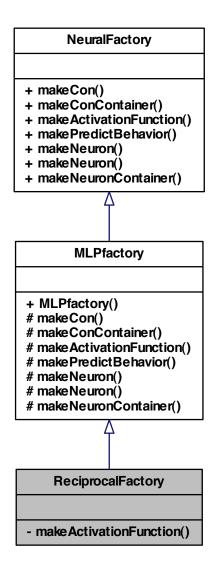
• pkg/AMORE/src/dia/Reciprocal.h

5.37 ReciprocalFactory Class Reference

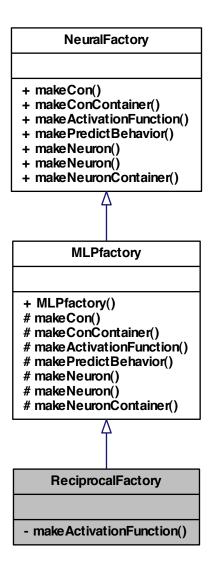
```
class ReciprocalFactory -
```

#include <ReciprocalFactory.h>

Inheritance diagram for ReciprocalFactory:



Collaboration diagram for ReciprocalFactory:



Private Member Functions

• ActivationFunctionPtr makeActivationFunction (NeuronPtr neuronPtr)

5.37.1 Detailed Description

class ReciprocalFactory -

Definition at line 5 of file ReciprocalFactory.h.

5.37.2 Member Function Documentation

5.37.2.1 ActivationFunctionPtr ReciprocalFactory::makeActivationFunction (NeuronPtr neuronPtr) [private, virtual]

Implements MLPfactory.

The documentation for this class was generated from the following file:

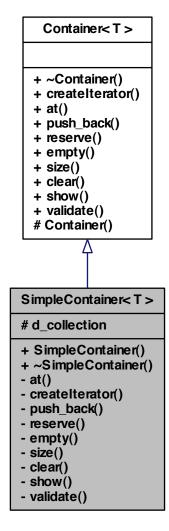
• pkg/AMORE/src/dia/ReciprocalFactory.h

5.38 SimpleContainer < T > Class Template Reference

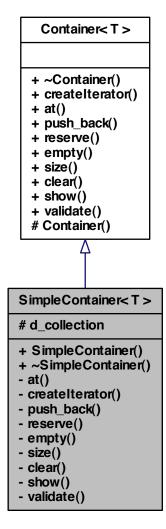
class SimpleContainer -

#include <SimpleContainer.h>

Inheritance diagram for SimpleContainer< T >:



Collaboration diagram for SimpleContainer< T >:



Public Member Functions

- SimpleContainer ()
- ∼SimpleContainer ()

Protected Attributes

• std::vector< T > d_collection

Private Member Functions

```
T at (size_type element)

Append a shared_ptr at the end of collection.
boost::shared_ptr < Iterator < T >> createIterator ()
void push_back (T const &const_reference)
void reserve (int n)
bool empty ()
size_type size ()

Returns the size or length of the vector.
void clear ()
void show ()

Pretty print of the SimpleContainer < T>
bool validate ()
```

Friends

class SimpleContainerIterator< T >

5.38.1 Detailed Description

Object validator.

```
\label{lem:container} template < typename T > class Simple Container < T > \\ class Simple Container - \\ Definition at line 6 of file Simple Container.h.
```

5.38.2 Constructor & Destructor Documentation

```
5.38.2.1 template < typename T > SimpleContainer < T >::SimpleContainer ( )

Definition at line 11 of file SimpleContainer.cpp.
```

```
5.38.2.2 template < typename T > Simple Container < T >:: \sim Simple Container ( )
```

Definition at line 17 of file SimpleContainer.cpp.

```
{
```

5.38.3 Member Function Documentation

Append a shared_ptr at the end of collection.

Implements push back for the Container class

Parameters

TsharedPtr | A shared ptr pointer to be inserted at the end of collection

```
//========
         //Usage example:
          //========
          // Data set up
                 Neuron N1, N2, N3;
                 Container < Con> conContainer;
                 std::vector<ConPtr> vc;
                 std::vector<int> result;
                 N1.setId(10);
                 N2.setId(20);
                 N3.setId(30);
         // Test
                 ConPtr ptCon( new Con(&N1, 1.13) ); // Create new Con
and initialize ptCon
                 conContainer.push_back(ptCon);
/ push_back
                 ptCon.reset( new Con(&N2, 2.22));
                                                                // create
new Con and assign to ptCon
                 conContainer.push_back(ptCon);
/ push_back
                 ptCon.reset( new Con(&N3, 3.33));
                                                                // create
new Con and assign to ptCon
                 conContainer.push_back(ptCon);
/ push_back
                 vc = conContainer.load();
                 result.push_back(vc.at(0)->getId());
                 result.push_back(vc.at(1)->getId());
                 result.push_back(vc.at(2)->getId());
  // After execution of this code, result contains a numeric vector with va
lues 10, 20 and 30.
```

See also

C++ documentation for std::vector::push_back and the unit test files, e.g., runit.Cpp.Container.R, for usage examples.

```
Implements Container < T >.
```

Definition at line 69 of file SimpleContainer.cpp.

```
{
return d_collection.at(element);
}
```

Implements Container < T >.

Definition at line 182 of file SimpleContainer.cpp.

```
{
d_collection.clear();
}
```

5.38.3.3 template<typename T > boost::shared_ptr< Iterator< T > > SimpleContainer< T >::createlterator() [private, virtual]

Implements Container < T >.

Definition at line 23 of file SimpleContainer.cpp.

```
{
  boost::shared_ptr < SimpleContainerIterator<T> > iteratorPtr( new
    SimpleContainerIterator<T> ());
  iteratorPtr->d_container = this;
  iteratorPtr->d_current= 0;
  return iteratorPtr;
}
```


Implements Container < T >.

Definition at line 168 of file SimpleContainer.cpp.

```
{
  return (d_collection.empty());
}
```

```
5.38.3.5 template < typename T > void SimpleContainer < T >::push_back ( T const & const_reference ) [private, virtual]
Implements Container < T >.
```

Definition at line 77 of file SimpleContainer.cpp.

```
{
d_collection.push_back(reference);
}
```

Implements Container < T >.

Definition at line 175 of file SimpleContainer.cpp.

```
{
d_collection.reserve(n);
}
```

```
5.38.3.7 template<typename T > void Simple Container < T > :::show( ) [private, virtual]
```

Pretty print of the SimpleContainer<T>

This method outputs in the R terminal the contents of Container::collection.

Returns

true in case everything works without throwing an exception

*

```
//========
         //Usage example:
         //========
         // Data set up
                 ContainerNeuronPtr
                                        neuronContainerPtr( new
Container<Neuron>() );
                 ContainerConPtr conContainerPtr( new Container<Con>() );
                 ConPtr ptC;
                 NeuronPtr ptN;
                 int ids[] = \{10, 20, 30\};
                 double weights[] = \{1.13, 2.22, 3.33\};
                 for (int i=0; i<=2; i++) {
/ Let's create a vector with three neurons
                         ptN.reset( new Neuron( ids[i] ) );
                         neuronContainerPtr->push_back(ptN);
                 }
```

```
for (int i=0; i<=2; i++) {
\slash\, and a vector with three connections
                          ptC.reset( new Con( neuronContainerPtr->load().at
(i), weights[i]) );
                          conContainerPtr->push_back(ptC);
          // Test
                  conContainerPtr->show();
          // The output at the R terminal would display:
                                                  1.130000
2.220000
          //
                  # From: 10
                                  Weight=
                  # From: 10 Weight=
# From: 20 Weight=
                  # From: 30
                                   Weight=
                                                    3.330000
```

See also

The unit test files, e.g., runit.Cpp.Container.R, for usage examples.

Implements Container < T >.

Definition at line 127 of file SimpleContainer.cpp.

```
{
  boost::shared_ptr< Iterator <T> > itr = createIterator();
  for ( itr->first(); !itr->isDone(); itr->next() ) {
    itr->currentItem()->show();
  }
}
```

Returns the size or length of the vector.

This method returns the size of the vector. In the classes derived from SimpleContainer<T> this is aliased as numOfCons, numOfNeurons and numOfLayers. The unit test files, e.g., runit.Cpp.Container.R, for usage examples.

Implements Container < T >.

Definition at line 160 of file SimpleContainer.cpp.

```
{
  return d_collection.size();
}
```

```
5.38.3.9 template < typename T > bool Simple Container < T >::validate ( ) [private, virtual]
```

Object validator.

This method checks the object for internal coherence. This method calls the validate method for each element in collection,

See also

The unit test files, e.g., runit.Cpp.Container.R, for usage examples.

Implements Container < T >.

Definition at line 142 of file SimpleContainer.cpp.

```
{
  boost::shared_ptr< Iterator <T> > itr = createIterator();
  for ( itr->first(); !itr->isDone(); itr->next() ) {
    itr->currentItem()->validate();
  }
return true;
}
```

5.38.4 Friends And Related Function Documentation

5.38.4.1 template < typename T > friend class SimpleContainerIterator < T > [friend]

Definition at line 12 of file SimpleContainer.h.

5.38.5 Member Data Documentation

5.38.5.1 template < typename T > std::vector < T > Simple Container < T > ::d_collection [protected]

Definition at line 9 of file SimpleContainer.h.

The documentation for this class was generated from the following files:

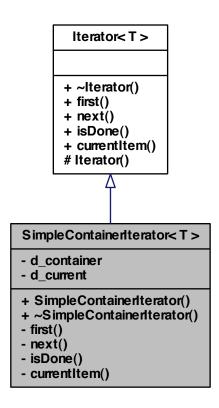
- pkg/AMORE/src/dia/SimpleContainer.h
- pkg/AMORE/src/SimpleContainer.cpp

5.39 SimpleContainerIterator < T > Class Template Reference

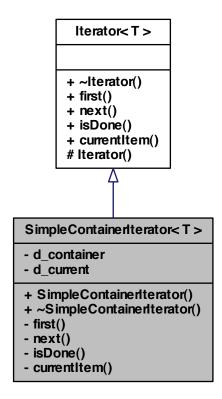
class SimpleContainerIterator -

#include <SimpleContainerIterator.h>

Inheritance diagram for SimpleContainerIterator< T >:



Collaboration diagram for SimpleContainerIterator< T >:



Public Member Functions

- SimpleContainerIterator ()
- ∼SimpleContainerIterator ()

Private Member Functions

- void first ()
- void next ()
- bool isDone ()
- T currentItem ()

Private Attributes

```
• Container < T > * d_container
```

```
    size_type d_current
```

Friends

class SimpleContainer< T >

5.39.1 Detailed Description

```
template < typename T> class Simple Container Iterator < T>
```

class SimpleContainerIterator -

Definition at line 6 of file SimpleContainerIterator.h.

5.39.2 Constructor & Destructor Documentation

```
5.39.2.1 template<typename T > SimpleContainerIterator< T >::SimpleContainerIterator( )
```

Definition at line 4 of file SimpleContainerIterator.cpp.

```
{
}
```

```
5.39.2.2 template<typename T > SimpleContainerIterator< T >::\simSimpleContainerIterator ( )
```

Definition at line 9 of file SimpleContainerIterator.cpp.

```
{
}
```

5.39.3 Member Function Documentation

Implements Iterator< T >.

Definition at line 37 of file SimpleContainerIterator.cpp.

```
{
      if (isDone()) throw std::range_error("SimpleContainerIterator::currentItem
       Error: IteratorOutOfBounds");
      return d container->at(d current);
  }
5.39.3.2 template<typename T > void SimpleContainerIterator< T >::first ( )
        [private, virtual]
Implements Iterator< T >.
Definition at line 15 of file SimpleContainerIterator.cpp.
    d_current = 0;
5.39.3.3 template < typename T > bool SimpleContainerIterator < T >::isDone ( )
        [private, virtual]
Implements Iterator< T >.
Definition at line 29 of file SimpleContainerIterator.cpp.
    bool IteratorIsDone(d_current == d_container->size());
    return IteratorIsDone;
5.39.3.4 template < typename T > void SimpleContainerIterator < T >::next ( )
        [private, virtual]
Implements Iterator< T >.
Definition at line 22 of file SimpleContainerIterator.cpp.
    ++d_current;
5.39.4 Friends And Related Function Documentation
```

Definition at line 13 of file SimpleContainerIterator.h.

5.39.4.1 template < typename T > friend class SimpleContainer < T > [friend]

5.39.5 Member Data Documentation

Definition at line 9 of file SimpleContainerIterator.h.

5.39.5.2 template> size_type SimpleContainerIterator< T
$$>$$
::d_current [private]

Definition at line 10 of file SimpleContainerIterator.h.

The documentation for this class was generated from the following files:

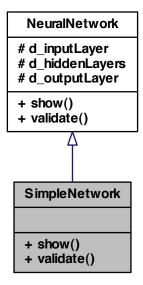
- pkg/AMORE/src/dia/SimpleContainerIterator.h
- pkg/AMORE/src/SimpleContainerIterator.cpp

5.40 SimpleNetwork Class Reference

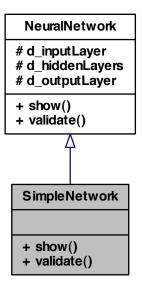
class SimpleNetwork -

#include <SimpleNetwork.h>

Inheritance diagram for SimpleNetwork:



Collaboration diagram for SimpleNetwork:



Public Member Functions

- void show ()
- bool validate ()

5.40.1 Detailed Description

class SimpleNetwork -

Definition at line 5 of file SimpleNetwork.h.

5.40.2 Member Function Documentation

5.40.2.1 void SimpleNetwork::show ()

Reimplemented from NeuralNetwork.

5.40.2.2 bool SimpleNetwork::validate ()

Reimplemented from NeuralNetwork.

The documentation for this class was generated from the following file:

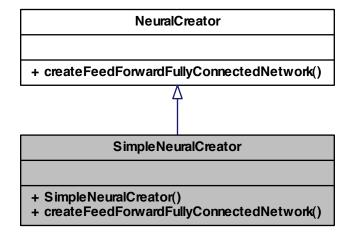
• pkg/AMORE/src/dia/SimpleNetwork.h

5.41 SimpleNeuralCreator Class Reference

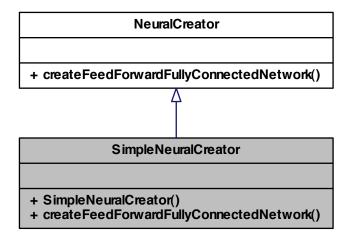
class SimpleNeuralCreator -

#include <SimpleNeuralCreator.h>

Inheritance diagram for SimpleNeuralCreator:



Collaboration diagram for SimpleNeuralCreator:



Public Member Functions

- SimpleNeuralCreator ()
- NeuralNetworkPtr createFeedForwardFullyConnectedNetwork (NeuralFactoryPtr neuralFactoryPtr)

5.41.1 Detailed Description

class SimpleNeuralCreator -

Definition at line 5 of file SimpleNeuralCreator.h.

5.41.2 Constructor & Destructor Documentation

5.41.2.1 SimpleNeuralCreator::SimpleNeuralCreator ()

Definition at line 15 of file SimpleNeuralCreator.cpp.

{

5.41.3 Member Function Documentation

5.41.3.1 NeuralNetworkPtr SimpleNeuralCreator::createFeedForwardFullyConnectedNetwork (NeuralFactoryPtr neuralFactoryPtr) [virtual]

Implements NeuralCreator.

Definition at line 22 of file SimpleNeuralCreator.cpp.

```
{
  NeuralNetworkPtr n;
  return n ; // change this, does'n make sense
```

The documentation for this class was generated from the following files:

- pkg/AMORE/src/dia/SimpleNeuralCreator.h
- pkg/AMORE/src/SimpleNeuralCreator.cpp

5.42 SimpleNeuron Class Reference

```
class SimpleNeuron -
```

```
#include <SimpleNeuron.h>
```

Inheritance diagram for SimpleNeuron:

Neuron # d predictBehavior # d activationFunction #d Id # d_nCons # d_inducedLocalField # d_output + getInducedLocalField() + setInducedLocalField() + getOutput() + setOutput() + getId() + setId() + getConIterator() + addCon() + setActivationFunction() + setPredictBehavior() + use ActivationFunctionf0() + predict() + show() + validate() # Neuron() **SimpleNeuron** + SimpleNeuron() - getInducedLocalField() - setInducedLocalField() - getOutput() - setOutput() - getId() - setId() - getConIterator() - addCon()

setActivationFunction()setPredictBehavior()useActivationFunctionf0()

predict()show()validate()

Collaboration diagram for SimpleNeuron:

Neuron # d predictBehavior # d activationFunction #d Id # d_nCons # d_inducedLocalField # d_output + getInducedLocalField() + setInducedLocalField() + getOutput() + setOutput() + getId() + setId() + getConIterator() + addCon() + setActivationFunction() + setPredictBehavior() + use ActivationFunctionf0() + predict() + show() + validate() # Neuron() **SimpleNeuron** + SimpleNeuron() - getInducedLocalField() - setInducedLocalField() - getOutput() - setOutput() - getId() - setId()

getConIterator()addCon()

predict()show()validate()

setActivationFunction()setPredictBehavior()useActivationFunctionf0()

Public Member Functions

• SimpleNeuron (NeuralFactory &neuralFactory)

Private Member Functions

- double getInducedLocalField ()
- void setInducedLocalField (double inducedLocalField)
- double getOutput ()
- void setOutput (double output)
- Handler getId ()
- void setId (Handler Id)
- ConIteratorPtr getConIterator ()
- void addCon (ConPtr conPtr)
- void setActivationFunction (ActivationFunctionPtr activationFunctionPtr)
- void setPredictBehavior (PredictBehaviorPtr predictBehaviorPtr)
- double useActivationFunctionf0 ()
- void predict ()
- void show ()
- bool validate ()

5.42.1 Detailed Description

class SimpleNeuron -

Definition at line 5 of file SimpleNeuron.h.

5.42.2 Constructor & Destructor Documentation

5.42.2.1 SimpleNeuron::SimpleNeuron (NeuralFactory & neuralFactory)

Definition at line 10 of file SimpleNeuron.cpp.

```
Neuron(neuralFactory)
{
}
```

5.42.3 Member Function Documentation

```
5.42.3.1 void SimpleNeuron::addCon(ConPtr conPtr) [private, virtual]
```

Implements Neuron.

Definition at line 59 of file SimpleNeuron.cpp.

References Neuron::d nCons.

```
{
  d_nCons->push_back( conPtr) ;
}
```

5.42.3.2 ConIteratorPtr SimpleNeuron::getConIterator() [private, virtual]

Implements Neuron.

Definition at line 53 of file SimpleNeuron.cpp.

References Neuron::d_nCons.

```
{
  return d_nCons->createIterator();
}
```

5.42.3.3 Handler SimpleNeuron::getld() [private, virtual]

Implements Neuron.

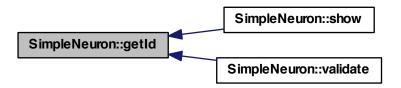
Definition at line 41 of file SimpleNeuron.cpp.

References Neuron::d_ld.

Referenced by show(), and validate().

```
{
  return d_Id;
}
```

Here is the caller graph for this function:



5.42.3.4 double SimpleNeuron::getInducedLocalField() [private, virtual]

Implements Neuron.

```
Definition at line 17 of file SimpleNeuron.cpp.
```

References Neuron::d inducedLocalField.

```
{
  return d_inducedLocalField;
}
```

```
5.42.3.5 double SimpleNeuron::getOutput( ) [private, virtual]
```

Implements Neuron.

Definition at line 29 of file SimpleNeuron.cpp.

References Neuron::d_output.

```
{
return d_output;
}
```

```
5.42.3.6 void SimpleNeuron::predict() [private, virtual]
```

Implements Neuron.

Definition at line 83 of file SimpleNeuron.cpp.

References Neuron::d_predictBehavior.

```
{
   d_predictBehavior->predict();
}
```

5.42.3.7 void SimpleNeuron::setActivationFunction (ActivationFunctionPtr activationFunctionPtr) [private, virtual]

Implements Neuron.

Definition at line 65 of file SimpleNeuron.cpp.

References Neuron::d_activationFunction.

```
{
   d_activationFunction = activationFunctionPtr;
}
```

5.42.3.8 void SimpleNeuron::setId (Handler Id) [private, virtual]

Implements Neuron.

Definition at line 47 of file SimpleNeuron.cpp.

References Neuron::d Id.

```
d_Id = Id;
5.42.3.9 void SimpleNeuron::setInducedLocalField ( double inducedLocalField )
        [private, virtual]
Implements Neuron.
Definition at line 23 of file SimpleNeuron.cpp.
References Neuron::d_inducedLocalField.
  d_inducedLocalField = inducedLocalField;
5.42.3.10 void SimpleNeuron::setOutput ( double output ) [private, virtual]
Implements Neuron.
Definition at line 35 of file SimpleNeuron.cpp.
References Neuron::d output.
  d_output = output;
5.42.3.11 void SimpleNeuron::setPredictBehavior ( PredictBehaviorPtr predictBehaviorPtr )
         [private, virtual]
Implements Neuron.
Definition at line 71 of file SimpleNeuron.cpp.
References Neuron::d_predictBehavior.
  d_predictBehavior = predictBehaviorPtr;
5.42.3.12 void SimpleNeuron::show( ) [private, virtual]
Implements Neuron.
Definition at line 89 of file SimpleNeuron.cpp.
References Neuron::d nCons, Neuron::d output, Neuron::d predictBehavior, and getId().
```

```
int id = getId();
Rprintf("\n-----
                  ----\n");
if (id == NA_INTEGER)
   Rprintf("\n Id: NA, Invalid neuron Id");
else
 {
   Rprintf("\n Id: %d", id);
Rprintf("\n----\n");
d_predictBehavior->show();
Rprintf("\n output: %lf", d_output);
Rprintf("\n----\n");
if (d_nCons->size() == 0)
   Rprintf("\n No connections defined");
else
   d_nCons->show();
Rprintf("\n----\n");
```

Here is the call graph for this function:



```
5.42.3.13 double SimpleNeuron::useActivationFunctionf0() [private, virtual]
```

Implements Neuron.

Definition at line 77 of file SimpleNeuron.cpp.

 $References\ Neuron:: \\ d_activation Function.$

```
{
  return d_activationFunction->f0();
}
```

5.42.3.14 bool SimpleNeuron::validate() [private, virtual]

Implements Neuron.

Definition at line 118 of file SimpleNeuron.cpp.

References getId().

```
{
  BEGIN_RCPP
  if (getId() == NA_INTEGER ) throw std::range_error("[C++ SimpleNeuron::validate
    ]: Error, Id is NA.");
  // nCons.validate();
  return (TRUE);
END_RCPP}
```

Here is the call graph for this function:



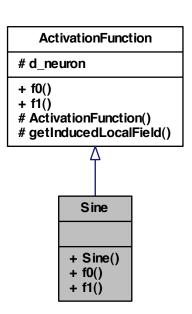
The documentation for this class was generated from the following files:

- pkg/AMORE/src/dia/SimpleNeuron.h
- pkg/AMORE/src/SimpleNeuron.cpp

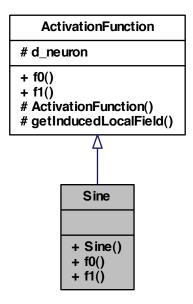
5.43 Sine Class Reference

```
class Sine -
#include <Sine.h>
```

Inheritance diagram for Sine:



Collaboration diagram for Sine:



Public Member Functions

- Sine (NeuronPtr neuronPtr)
- double f0 ()
- double f1 ()

5.43.1 Detailed Description

class Sine -

Definition at line 5 of file Sine.h.

- 5.43.2 Constructor & Destructor Documentation
- 5.43.2.1 Sine::Sine (NeuronPtr neuronPtr)
- 5.43.3 Member Function Documentation

```
5.43.3.1 double Sine::f0() [virtual]
```

Implements ActivationFunction.

```
5.43.3.2 double Sine::f1() [virtual]
```

Implements ActivationFunction.

The documentation for this class was generated from the following file:

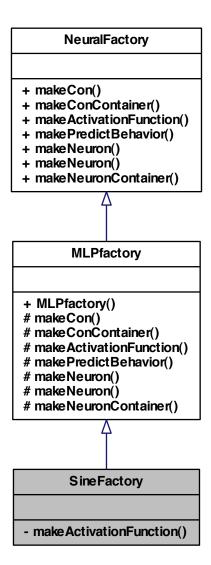
• pkg/AMORE/src/dia/Sine.h

5.44 SineFactory Class Reference

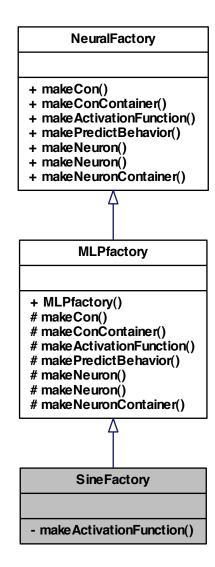
```
class SineFactory -
```

#include <SineFactory.h>

Inheritance diagram for SineFactory:



Collaboration diagram for SineFactory:



Private Member Functions

• ActivationFunctionPtr makeActivationFunction (NeuronPtr neuronPtr)

5.44.1 Detailed Description

class SineFactory -

Definition at line 5 of file SineFactory.h.

5.44.2 Member Function Documentation

5.44.2.1 ActivationFunctionPtr SineFactory::makeActivationFunction (NeuronPtr neuronPtr) [private, virtual]

Implements MLPfactory.

The documentation for this class was generated from the following file:

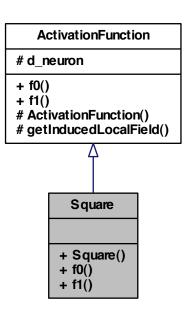
• pkg/AMORE/src/dia/SineFactory.h

5.45 Square Class Reference

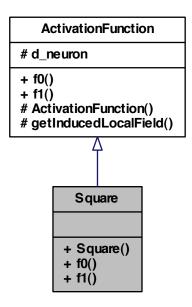
class Square -

#include <Square.h>

Inheritance diagram for Square:



Collaboration diagram for Square:



Public Member Functions

- Square (NeuronPtr neuronPtr)
- double f0 ()
- double f1 ()

5.45.1 Detailed Description

class Square -

Definition at line 5 of file Square.h.

- 5.45.2 Constructor & Destructor Documentation
- 5.45.2.1 Square::Square (NeuronPtr neuronPtr)
- 5.45.3 Member Function Documentation

```
5.45.3.1 double Square::f0() [virtual]
```

Implements ActivationFunction.

```
5.45.3.2 double Square::f1() [virtual]
```

Implements ActivationFunction.

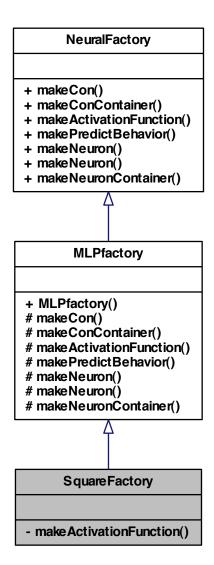
The documentation for this class was generated from the following file:

• pkg/AMORE/src/dia/Square.h

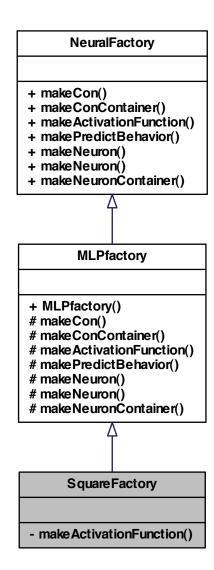
5.46 SquareFactory Class Reference

```
class SquareFactory -
#include <SquareFactory.h>
```

Inheritance diagram for SquareFactory:



Collaboration diagram for SquareFactory:



Private Member Functions

• ActivationFunctionPtr makeActivationFunction (NeuronPtr neuronPtr)

5.46.1 Detailed Description

class SquareFactory -

Definition at line 5 of file SquareFactory.h.

5.46.2 Member Function Documentation

5.46.2.1 ActivationFunctionPtr SquareFactory::makeActivationFunction (NeuronPtr neuronPtr) [private, virtual]

Implements MLPfactory.

The documentation for this class was generated from the following file:

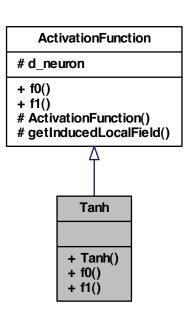
• pkg/AMORE/src/dia/SquareFactory.h

5.47 Tanh Class Reference

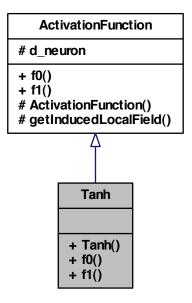
class Tanh -

#include <Tanh.h>

Inheritance diagram for Tanh:



Collaboration diagram for Tanh:



Public Member Functions

- Tanh (NeuronPtr neuronPtr)
- double f0 ()
- double f1 ()

5.47.1 Detailed Description

class Tanh -

Definition at line 5 of file Tanh.h.

5.47.2 Constructor & Destructor Documentation

5.47.2.1 Tanh::Tanh (NeuronPtr neuronPtr)

Definition at line 12 of file Tanh.cpp.

: ActivationFunction(neuronPtr) {

}

5.47.3 Member Function Documentation

```
5.47.3.1 double Tanh::f0() [virtual]
```

Implements ActivationFunction.

Definition at line 16 of file Tanh.cpp.

References ActivationFunction::getInducedLocalField().

```
{
  return tanh(getInducedLocalField());
}
```

Here is the call graph for this function:



```
5.47.3.2 double Tanh::f1() [virtual]
```

Implements ActivationFunction.

Definition at line 21 of file Tanh.cpp.

References ActivationFunction::getInducedLocalField().

```
{
  double tanhx ( tanh(getInducedLocalField()) );
  return (1-tanhx*tanhx); // TODO consider speeding up the calculation by using
    caller.d_output instead of tanhx
}
```

Here is the call graph for this function:



The documentation for this class was generated from the following files:

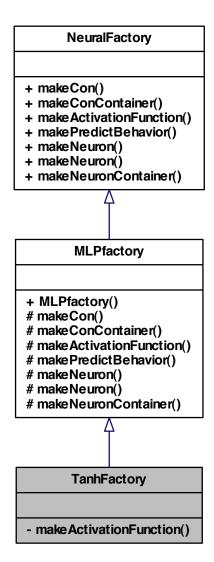
- pkg/AMORE/src/dia/Tanh.h
- pkg/AMORE/src/Tanh.cpp

5.48 TanhFactory Class Reference

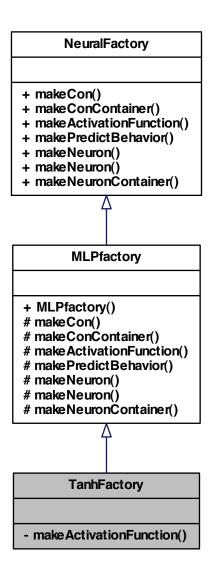
class TanhFactory -

#include <TanhFactory.h>

Inheritance diagram for TanhFactory:



Collaboration diagram for TanhFactory:



Private Member Functions

• ActivationFunctionPtr makeActivationFunction (NeuronPtr neuronPtr)

5.48.1 Detailed Description

class TanhFactory -

Definition at line 5 of file TanhFactory.h.

5.48.2 Member Function Documentation

```
5.48.2.1 ActivationFunctionPtr TanhFactory::makeActivationFunction ( NeuronPtr neuronPtr ) [private, virtual]
```

Implements MLPfactory.

Definition at line 17 of file TanhFactory.cpp.

```
{
   ActivationFunctionPtr activationFunctionPtr(new Tanh(neuronPtr));
   return activationFunctionPtr;
}
```

The documentation for this class was generated from the following files:

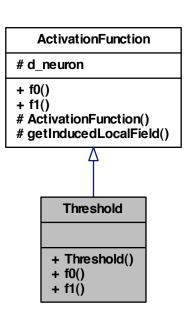
- pkg/AMORE/src/dia/TanhFactory.h
- pkg/AMORE/src/TanhFactory.cpp

5.49 Threshold Class Reference

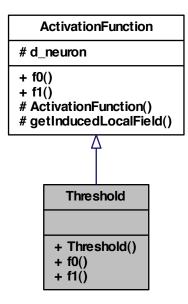
```
class Threshold -
```

#include <Threshold.h>

Inheritance diagram for Threshold:



Collaboration diagram for Threshold:



Public Member Functions

- Threshold (NeuronPtr neuronPtr)
- double f0 ()
- double f1 ()

5.49.1 Detailed Description

class Threshold -

Definition at line 5 of file Threshold.h.

- 5.49.2 Constructor & Destructor Documentation
- 5.49.2.1 Threshold::Threshold (NeuronPtr neuronPtr)
- 5.49.3 Member Function Documentation

```
5.49.3.1 double Threshold::f0() [virtual]
Implements ActivationFunction.
```

```
5.49.3.2 double Threshold::f1() [virtual]
```

Implements ActivationFunction.

The documentation for this class was generated from the following file:

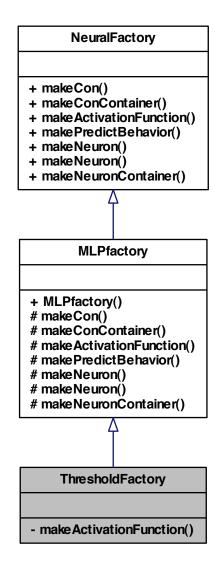
• pkg/AMORE/src/dia/Threshold.h

5.50 ThresholdFactory Class Reference

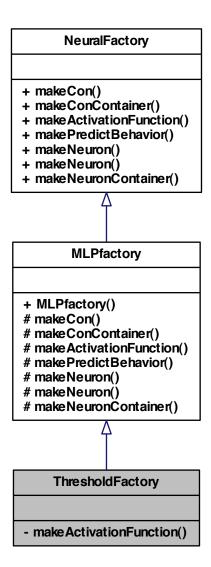
```
class ThresholdFactory -
```

#include <ThresholdFactory.h>

Inheritance diagram for ThresholdFactory:



Collaboration diagram for ThresholdFactory:



Private Member Functions

• ActivationFunctionPtr makeActivationFunction (NeuronPtr neuronPtr)

5.50.1 Detailed Description

class ThresholdFactory -

Definition at line 5 of file ThresholdFactory.h.

5.50.2 Member Function Documentation

5.50.2.1 ActivationFunctionPtr ThresholdFactory::makeActivationFunction (NeuronPtr neuronPtr) [private, virtual]

Implements MLPfactory.

The documentation for this class was generated from the following file:

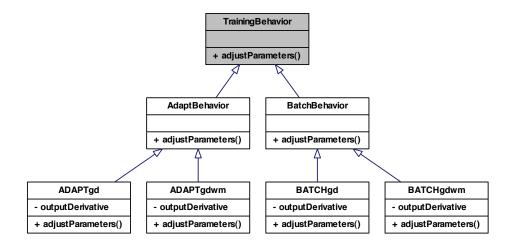
• pkg/AMORE/src/dia/ThresholdFactory.h

5.51 TrainingBehavior Class Reference

class TrainingBehavior -

#include <TrainingBehavior.h>

Inheritance diagram for TrainingBehavior:



Public Member Functions

• void adjustParameters ()

5.51.1 Detailed Description

class TrainingBehavior -

Definition at line 4 of file TrainingBehavior.h.

5.51.2 Member Function Documentation

5.51.2.1 void TrainingBehavior::adjustParameters ()

Reimplemented in AdaptBehavior, ADAPTgd, ADAPTgdwm, BatchBehavior, BATCHgd, and BATCHgdwm.

The documentation for this class was generated from the following file:

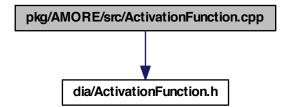
• pkg/AMORE/src/dia/TrainingBehavior.h

Chapter 6

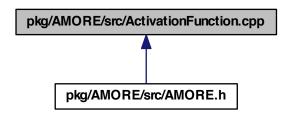
File Documentation

6.1 pkg/AMORE/src/ActivationFunction.cpp File Reference

#include "dia/ActivationFunction.h"
Include dependency graph for ActivationFunction.cpp:



This graph shows which files directly or indirectly include this file:



6.2 pkg/AMORE/src/AMORE.h File Reference

```
#include <iostream>
#include <sstream>
#include <algorithm>
#include <vector>
#include <iterator>
#include <boost/shared_ptr.hpp>
#include <boost/weak_ptr.hpp>
#include <boost/foreach.hpp>
#include <boost/ref.hpp>
#include <valarray>
#include <Rcpp.h>
#include "dia/Con.h"
#include "dia/ActivationFunction.h"
#include "dia/Tanh.h"
#include "dia/Identity.h"
#include "dia/PredictBehavior.h"
#include "dia/MLPBehavior.h"
#include "dia/Neuron.h"
#include "dia/SimpleNeuron.h"
#include "dia/NeuralFactory.h"
```

```
#include "dia/MLPfactory.h"
#include "dia/TanhFactory.h"
#include "dia/IdentityFactory.h"
#include "dia/NeuralNetwork.h"
#include "dia/SimpleNetwork.h"
#include "dia/NeuralCreator.h"
#include "dia/SimpleNeuralCreator.h"
#include "dia/Container.h"
#include "dia/SimpleContainer.h"
#include "dia/Iterator.h"
#include "dia/SimpleContainerIterator.h"
#include "Con.cpp"
#include "ActivationFunction.cpp"
#include "Tanh.cpp"
#include "Identity.cpp"
#include "PredictBehavior.cpp"
#include "MLPbehavior.cpp"
#include "Neuron.cpp"
#include "SimpleNeuron.cpp"
#include "MLPfactory.cpp"
#include "TanhFactory.cpp"
#include "IdentityFactory.cpp"
#include "NeuralNetwork.cpp"
#include "SimpleNetwork.cpp"
#include "SimpleNeuralCreator.cpp"
#include "Container.cpp"
#include "Iterator.cpp"
#include "SimpleContainer.cpp"
#include "SimpleContainerIterator.cpp"
```

Include dependency graph for AMORE.h:



Defines

- #define foreach BOOST FOREACH
- #define size_type unsigned int

Typedefs

- · typedef int Handler
- typedef boost::reference wrapper< PredictBehavior > ActivationFunctionRef
- typedef boost::reference_wrapper< PredictBehavior > PredictBehaviorRef
- typedef boost::reference_wrapper< TrainingBehavior > TrainingBehaviorRef
- typedef boost::reference_wrapper< Neuron > NeuronRef
- typedef boost::shared_ptr< ActivationFunction > ActivationFunctionPtr
- typedef boost::shared_ptr< PredictBehavior > PredictBehaviorPtr
- typedef boost::shared_ptr< Neuron > NeuronPtr
- typedef boost::shared ptr< Con > ConPtr
- typedef boost::shared ptr< NeuralNetwork > NeuralNetworkPtr
- typedef boost::shared_ptr< Iterator< NeuronPtr > > NeuronIteratorPtr
- typedef boost::shared_ptr< lterator< ConPtr >> ConIteratorPtr
- typedef boost::shared ptr< Container< NeuronPtr > > LayerPtr
- typedef boost::shared_ptr< Container< NeuronPtr > > NeuronContainerPtr
- typedef boost::shared_ptr< Container< ConPtr >> ConContainerPtr
- typedef boost::shared ptr< NeuralFactory > NeuralFactoryPtr
- typedef boost::shared_ptr< NeuralCreator > NeuralCreatorPtr
- typedef boost::weak_ptr< Neuron > NeuronWeakPtr

6.2.1 Define Documentation

6.2.1.1 #define foreach BOOST_FOREACH

Definition at line 68 of file AMORE.h.

6.2.1.2 #define size_type unsigned int

Definition at line 71 of file AMORE.h.

6.2.2 Typedef Documentation

6.2.2.1 typedef boost::shared_ptr<ActivationFunction> ActivationFunctionPtr

Definition at line 83 of file AMORE.h.

6.2.2.2 typedef boost::reference_wrapper< PredictBehavior> ActivationFunctionRef

Definition at line 77 of file AMORE.h.

 $\textbf{6.2.2.3} \quad \textbf{typedef boost::shared_ptr} < \textbf{Container} < \textbf{ConPtr} > > \textbf{ConContainerPtr}$

Definition at line 95 of file AMORE.h.

6.2.2.4 typedef boost::shared_ptr< Iterator<ConPtr> > ConIteratorPtr

Definition at line 91 of file AMORE.h.

6.2.2.5 typedef boost::shared_ptr<Con> ConPtr

Definition at line 86 of file AMORE.h.

6.2.2.6 typedef int Handler

Definition at line 74 of file AMORE.h.

6.2.2.7 typedef boost::shared_ptr< Container<NeuronPtr>> LayerPtr

Definition at line 93 of file AMORE.h.

 ${\it 6.2.2.8} \quad typedef \ boost:: shared_ptr < \ Neural Creator > Neural Creator Ptr$

Definition at line 98 of file AMORE.h.

 $\textbf{6.2.2.9} \quad \textbf{typedef boost::shared_ptr} < \textbf{NeuralFactory} > \textbf{NeuralFactoryPtr}$

Definition at line 97 of file AMORE.h.

 $\textbf{6.2.2.10} \quad typedef \ boost:: shared_ptr < \textbf{NeuralNetwork} > \textbf{NeuralNetworkPtr}$

Definition at line 87 of file AMORE.h.

 $\textbf{6.2.2.11} \quad typedef \ boost:: shared_ptr < \textbf{Container} < \textbf{NeuronPtr} > > \textbf{NeuronContainerPtr}$

Definition at line 94 of file AMORE.h.

 $\textbf{6.2.2.12} \quad typedef \ boost:: shared_ptr < Iterator < NeuronPtr > > NeuronIteratorPtr$

Definition at line 90 of file AMORE.h.

6.2.2.13 typedef boost::shared_ptr<Neuron> NeuronPtr

Definition at line 85 of file AMORE.h.

6.2.2.14 typedef boost::reference_wrapper<Neuron> NeuronRef

Definition at line 80 of file AMORE.h.

6.2.2.15 typedef boost::weak_ptr<Neuron> NeuronWeakPtr

Definition at line 100 of file AMORE.h.

6.2.2.16 typedef boost::shared_ptr<PredictBehavior> PredictBehaviorPtr

Definition at line 84 of file AMORE.h.

6.2.2.17 typedef boost::reference_wrapper<PredictBehavior> PredictBehaviorRef

Definition at line 78 of file AMORE.h.

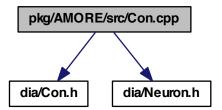
6.2.2.18 typedef boost::reference_wrapper<TrainingBehavior> TrainingBehaviorRef

Definition at line 79 of file AMORE.h.

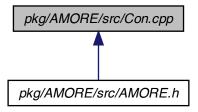
6.3 pkg/AMORE/src/Con.cpp File Reference

#include "dia/Con.h"
#include "dia/Neuron.h"

Include dependency graph for Con.cpp:



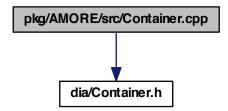
This graph shows which files directly or indirectly include this file:



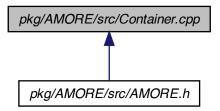
6.4 pkg/AMORE/src/Container.cpp File Reference

#include "dia/Container.h"

Include dependency graph for Container.cpp:



This graph shows which files directly or indirectly include this file:



6.5 pkg/AMORE/src/dia/ActivationFunction.h File Reference

This graph shows which files directly or indirectly include this file:



Classes

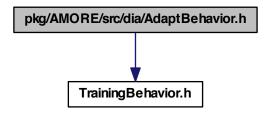
• class ActivationFunction

class ActivationFunction -

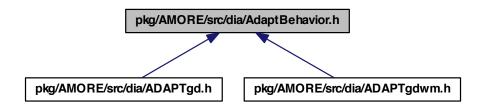
6.6 pkg/AMORE/src/dia/AdaptBehavior.h File Reference

#include "TrainingBehavior.h"

Include dependency graph for AdaptBehavior.h:



This graph shows which files directly or indirectly include this file:



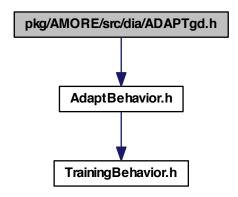
Classes

class AdaptBehavior class AdaptBehavior -

6.7 pkg/AMORE/src/dia/ADAPTgd.h File Reference

#include "AdaptBehavior.h"

Include dependency graph for ADAPTgd.h:



Classes

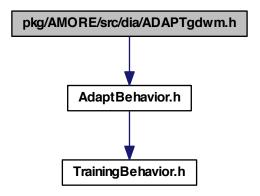
class ADAPTgd

class ADAPTgd -

6.8 pkg/AMORE/src/dia/ADAPTgdwm.h File Reference

#include "AdaptBehavior.h"

Include dependency graph for ADAPTgdwm.h:



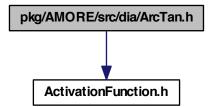
Classes

• class ADAPTgdwm - class ADAPTgdwm -

6.9 pkg/AMORE/src/dia/ArcTan.h File Reference

#include "ActivationFunction.h"

Include dependency graph for ArcTan.h:



Classes

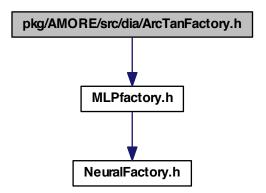
• class ArcTan

class ArcTan -

6.10 pkg/AMORE/src/dia/ArcTanFactory.h File Reference

#include "MLPfactory.h"

Include dependency graph for ArcTanFactory.h:



Classes

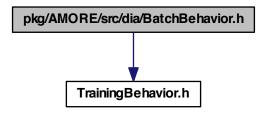
class ArcTanFactory

class ArcTanFactory -

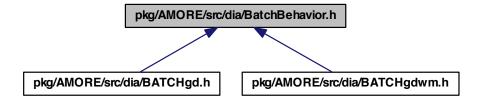
6.11 pkg/AMORE/src/dia/BatchBehavior.h File Reference

#include "TrainingBehavior.h"

Include dependency graph for BatchBehavior.h:



This graph shows which files directly or indirectly include this file:



Classes

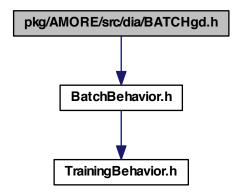
· class BatchBehavior

class BatchBehavior -

6.12 pkg/AMORE/src/dia/BATCHgd.h File Reference

#include "BatchBehavior.h"

Include dependency graph for BATCHgd.h:



Classes

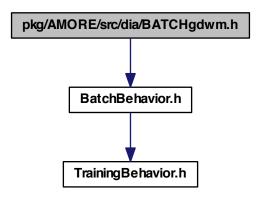
• class BATCHgd

class BATCHgd -

6.13 pkg/AMORE/src/dia/BATCHgdwm.h File Reference

#include "BatchBehavior.h"

Include dependency graph for BATCHgdwm.h:



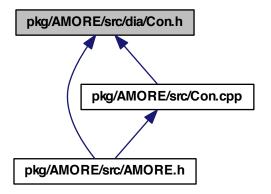
Classes

• class BATCHgdwm

class BATCHgdwm -

6.14 pkg/AMORE/src/dia/Con.h File Reference

This graph shows which files directly or indirectly include this file:



Classes

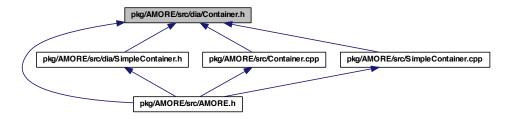
190

• class Con

class Con -

6.15 pkg/AMORE/src/dia/Container.h File Reference

This graph shows which files directly or indirectly include this file:



Classes

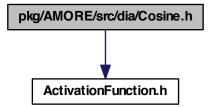
class Container< T >

class Container -

6.16 pkg/AMORE/src/dia/Cosine.h File Reference

#include "ActivationFunction.h"

Include dependency graph for Cosine.h:



Classes

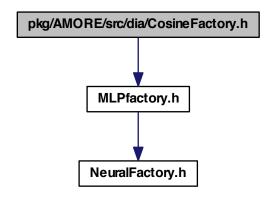
• class Cosine

class Cosine -

6.17 pkg/AMORE/src/dia/CosineFactory.h File Reference

#include "MLPfactory.h"

Include dependency graph for CosineFactory.h:

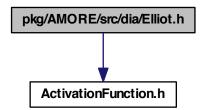


Classes

• class CosineFactory - class CosineFactory -

6.18 pkg/AMORE/src/dia/Elliot.h File Reference

#include "ActivationFunction.h"
Include dependency graph for Elliot.h:



Classes

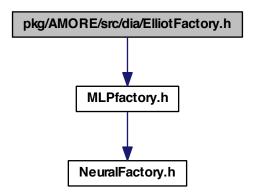
· class Elliot

class Elliot -

6.19 pkg/AMORE/src/dia/ElliotFactory.h File Reference

#include "MLPfactory.h"

Include dependency graph for ElliotFactory.h:



Classes

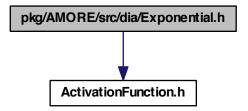
• class ElliotFactory

class ElliotFactory -

6.20 pkg/AMORE/src/dia/Exponential.h File Reference

#include "ActivationFunction.h"

Include dependency graph for Exponential.h:



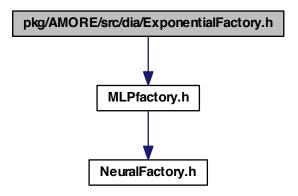
Classes

• class Exponential - class Exponential -

6.21 pkg/AMORE/src/dia/ExponentialFactory.h File Reference

#include "MLPfactory.h"

Include dependency graph for ExponentialFactory.h:



Classes

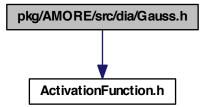
• class ExponentialFactory

class ExponentialFactory -

6.22 pkg/AMORE/src/dia/Gauss.h File Reference

#include "ActivationFunction.h"

Include dependency graph for Gauss.h:



Classes

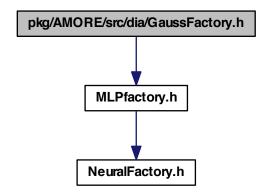
• class Gauss

class Gauss -

6.23 pkg/AMORE/src/dia/GaussFactory.h File Reference

#include "MLPfactory.h"

Include dependency graph for GaussFactory.h:



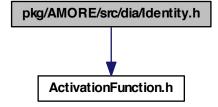
Classes

• class GaussFactory - class GaussFactory -

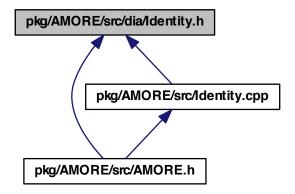
6.24 pkg/AMORE/src/dia/Identity.h File Reference

#include "ActivationFunction.h"

Include dependency graph for Identity.h:



This graph shows which files directly or indirectly include this file:



Classes

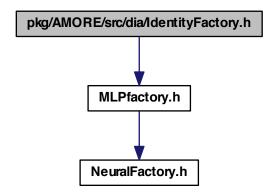
· class Identity

class Identity -

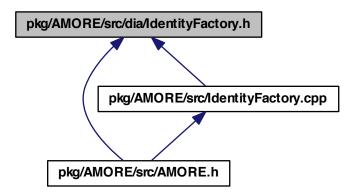
6.25 pkg/AMORE/src/dia/IdentityFactory.h File Reference

#include "MLPfactory.h"

Include dependency graph for IdentityFactory.h:



This graph shows which files directly or indirectly include this file:

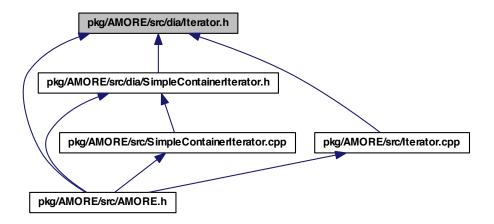


Classes

• class IdentityFactory - class IdentityFactory -

6.26 pkg/AMORE/src/dia/Iterator.h File Reference

This graph shows which files directly or indirectly include this file:



Classes

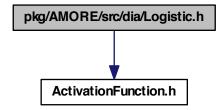
class Iterator< T >

class Iterator -

6.27 pkg/AMORE/src/dia/Logistic.h File Reference

#include "ActivationFunction.h"

Include dependency graph for Logistic.h:



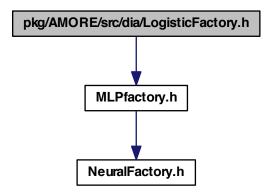
Classes

• class Logistic - class Logistic -

6.28 pkg/AMORE/src/dia/LogisticFactory.h File Reference

#include "MLPfactory.h"

Include dependency graph for LogisticFactory.h:



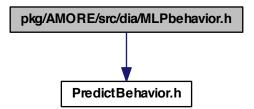
Classes

• class LogisticFactory - class LogisticFactory -

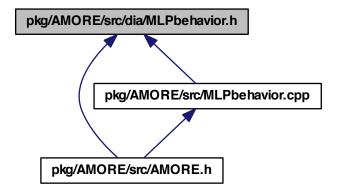
6.29 pkg/AMORE/src/dia/MLPbehavior.h File Reference

#include "PredictBehavior.h"

Include dependency graph for MLPbehavior.h:



This graph shows which files directly or indirectly include this file:



Classes

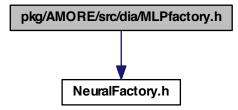
• class MLPbehavior

class MLPbehavior -

6.30 pkg/AMORE/src/dia/MLPfactory.h File Reference

#include "NeuralFactory.h"

Include dependency graph for MLPfactory.h:



This graph shows which files directly or indirectly include this file:



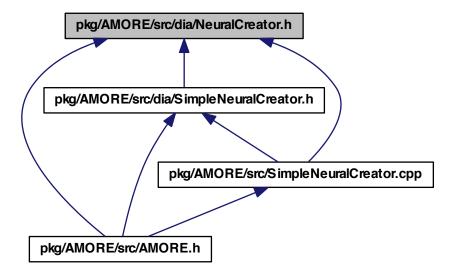
Classes

class MLPfactory

class MLPfactory -

6.31 pkg/AMORE/src/dia/NeuralCreator.h File Reference

This graph shows which files directly or indirectly include this file:



Classes

class NeuralCreator
 class NeuralCreator -

6.32 pkg/AMORE/src/dia/NeuralFactory.h File Reference

This graph shows which files directly or indirectly include this file:



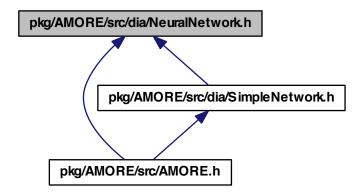
Classes

· class NeuralFactory

class NeuralFactory -

6.33 pkg/AMORE/src/dia/NeuralNetwork.h File Reference

This graph shows which files directly or indirectly include this file:



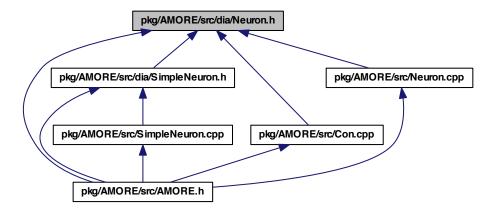
Classes

class NeuralNetwork

class NeuralNetwork -

6.34 pkg/AMORE/src/dia/Neuron.h File Reference

This graph shows which files directly or indirectly include this file:



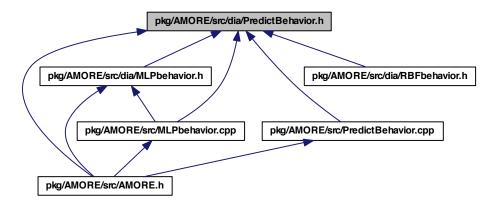
Classes

• class Neuron

class Neuron -

6.35 pkg/AMORE/src/dia/PredictBehavior.h File Reference

This graph shows which files directly or indirectly include this file:



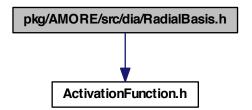
Classes

class PredictBehavior
 class PredictBehavior -

6.36 pkg/AMORE/src/dia/RadialBasis.h File Reference

#include "ActivationFunction.h"

Include dependency graph for RadialBasis.h:



Classes

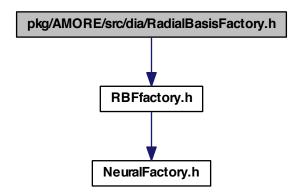
• class RadialBasis

class RadialBasis -

6.37 pkg/AMORE/src/dia/RadialBasisFactory.h File Reference

#include "RBFfactory.h"

Include dependency graph for RadialBasisFactory.h:



Classes

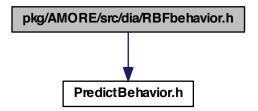
· class RadialBasisFactory

class RadialBasisFactory -

6.38 pkg/AMORE/src/dia/RBFbehavior.h File Reference

#include "PredictBehavior.h"

Include dependency graph for RBFbehavior.h:



Classes

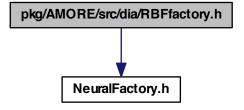
• class RBFbehavior

class RBFbehavior -

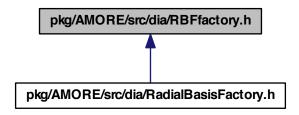
6.39 pkg/AMORE/src/dia/RBFfactory.h File Reference

#include "NeuralFactory.h"

Include dependency graph for RBFfactory.h:



This graph shows which files directly or indirectly include this file:



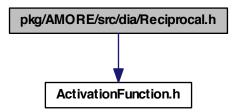
Classes

• class RBFfactory - class RBFfactory -

6.40 pkg/AMORE/src/dia/Reciprocal.h File Reference

#include "ActivationFunction.h"

Include dependency graph for Reciprocal.h:



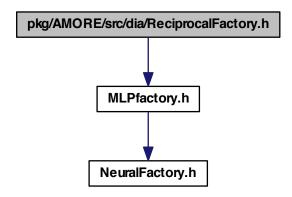
Classes

• class Reciprocal - class Reciprocal -

6.41 pkg/AMORE/src/dia/ReciprocalFactory.h File Reference

#include "MLPfactory.h"

Include dependency graph for ReciprocalFactory.h:



Classes

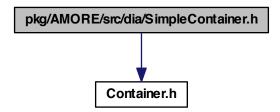
class ReciprocalFactory

class ReciprocalFactory -

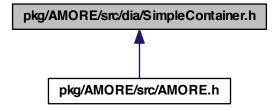
6.42 pkg/AMORE/src/dia/SimpleContainer.h File Reference

#include "Container.h"

Include dependency graph for SimpleContainer.h:



This graph shows which files directly or indirectly include this file:



Classes

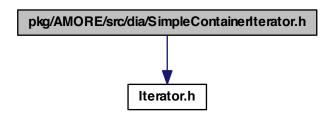
class SimpleContainer< T >

class SimpleContainer -

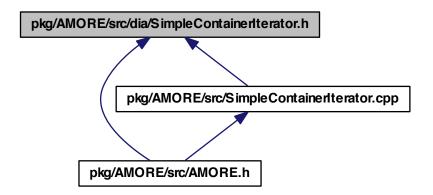
6.43 pkg/AMORE/src/dia/SimpleContainerIterator.h File Reference

#include "Iterator.h"

Include dependency graph for SimpleContainerIterator.h:



This graph shows which files directly or indirectly include this file:



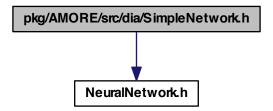
Classes

class SimpleContainerIterator < T >
 class SimpleContainerIterator -

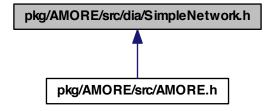
6.44 pkg/AMORE/src/dia/SimpleNetwork.h File Reference

#include "NeuralNetwork.h"

Include dependency graph for SimpleNetwork.h:



This graph shows which files directly or indirectly include this file:



Classes

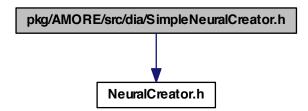
class SimpleNetwork

class SimpleNetwork -

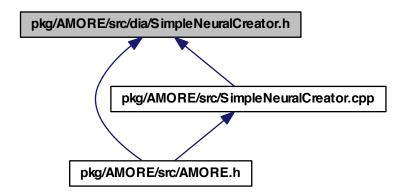
6.45 pkg/AMORE/src/dia/SimpleNeuralCreator.h File Reference

#include "NeuralCreator.h"

Include dependency graph for SimpleNeuralCreator.h:



This graph shows which files directly or indirectly include this file:



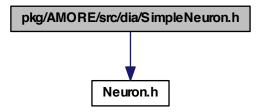
Classes

class SimpleNeuralCreator
 class SimpleNeuralCreator -

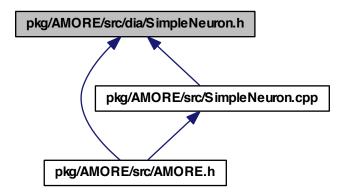
6.46 pkg/AMORE/src/dia/SimpleNeuron.h File Reference

#include "Neuron.h"

Include dependency graph for SimpleNeuron.h:



This graph shows which files directly or indirectly include this file:



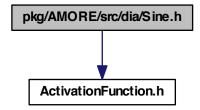
Classes

• class SimpleNeuron - class SimpleNeuron -

6.47 pkg/AMORE/src/dia/Sine.h File Reference

#include "ActivationFunction.h"

Include dependency graph for Sine.h:



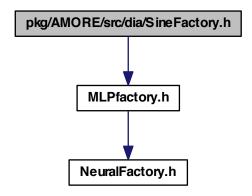
Classes

• class Sine - class Sine -

6.48 pkg/AMORE/src/dia/SineFactory.h File Reference

#include "MLPfactory.h"

Include dependency graph for SineFactory.h:



Classes

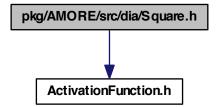
• class SineFactory

class SineFactory -

6.49 pkg/AMORE/src/dia/Square.h File Reference

#include "ActivationFunction.h"

Include dependency graph for Square.h:



Classes

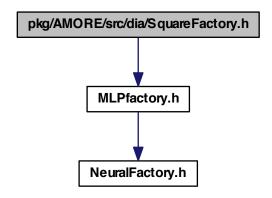
• class Square

class Square -

6.50 pkg/AMORE/src/dia/SquareFactory.h File Reference

#include "MLPfactory.h"

Include dependency graph for SquareFactory.h:

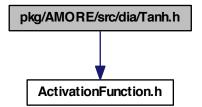


Classes

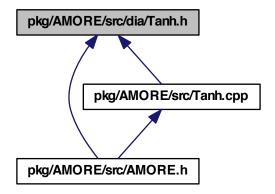
• class SquareFactory - class SquareFactory -

6.51 pkg/AMORE/src/dia/Tanh.h File Reference

#include "ActivationFunction.h"
Include dependency graph for Tanh.h:



This graph shows which files directly or indirectly include this file:



Classes

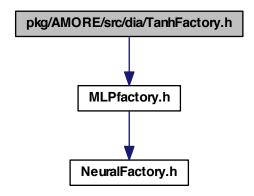
• class Tanh

class Tanh -

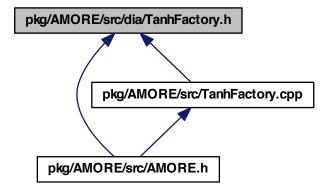
6.52 pkg/AMORE/src/dia/TanhFactory.h File Reference

#include "MLPfactory.h"

Include dependency graph for TanhFactory.h:



This graph shows which files directly or indirectly include this file:



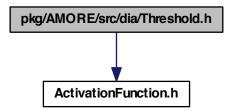
Classes

• class TanhFactory - class TanhFactory -

6.53 pkg/AMORE/src/dia/Threshold.h File Reference

#include "ActivationFunction.h"

Include dependency graph for Threshold.h:



Classes

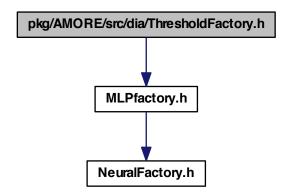
class Threshold

class Threshold -

6.54 pkg/AMORE/src/dia/ThresholdFactory.h File Reference

#include "MLPfactory.h"

Include dependency graph for ThresholdFactory.h:

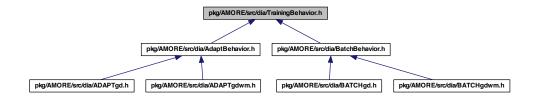


Classes

• class ThresholdFactory class ThresholdFactory -

6.55 pkg/AMORE/src/dia/TrainingBehavior.h File Reference

This graph shows which files directly or indirectly include this file:



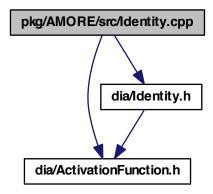
Classes

• class TrainingBehavior class TrainingBehavior -

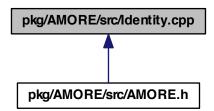
6.56 pkg/AMORE/src/Identity.cpp File Reference

#include "dia/ActivationFunction.h"
#include "dia/Identity.h"

Include dependency graph for Identity.cpp:



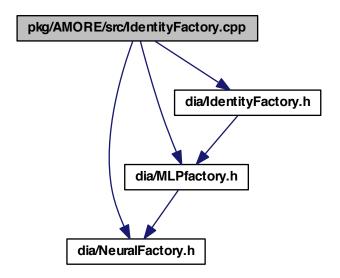
This graph shows which files directly or indirectly include this file:



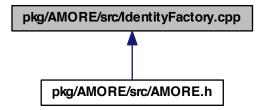
6.57 pkg/AMORE/src/IdentityFactory.cpp File Reference

#include "dia/NeuralFactory.h"

```
#include "dia/MLPfactory.h"
#include "dia/IdentityFactory.h"
Include dependency graph for IdentityFactory.cpp:
```



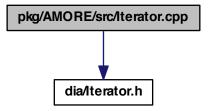
This graph shows which files directly or indirectly include this file:



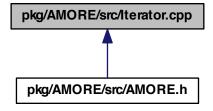
6.58 pkg/AMORE/src/Iterator.cpp File Reference

#include "dia/Iterator.h"

Include dependency graph for Iterator.cpp:



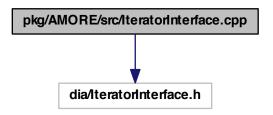
This graph shows which files directly or indirectly include this file:



6.59 pkg/AMORE/src/lteratorInterface.cpp File Reference

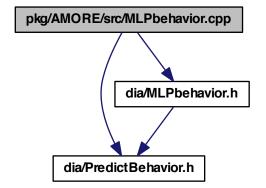
#include "dia/IteratorInterface.h"

Include dependency graph for IteratorInterface.cpp:

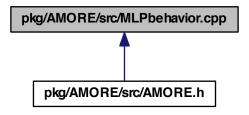


6.60 pkg/AMORE/src/MLPbehavior.cpp File Reference

#include "dia/PredictBehavior.h"
#include "dia/MLPbehavior.h"
Include dependency graph for MLPbehavior.cpp:



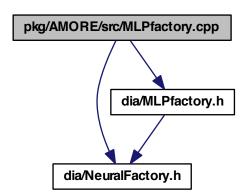
This graph shows which files directly or indirectly include this file:



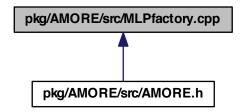
6.61 pkg/AMORE/src/MLPfactory.cpp File Reference

#include "dia/NeuralFactory.h"
#include "dia/MLPfactory.h"

Include dependency graph for MLPfactory.cpp:

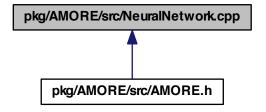


This graph shows which files directly or indirectly include this file:



6.62 pkg/AMORE/src/NeuralNetwork.cpp File Reference

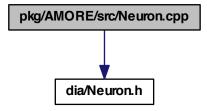
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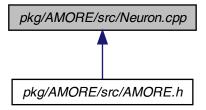
6.63 pkg/AMORE/src/Neuron.cpp File Reference

#include "dia/Neuron.h"

Include dependency graph for Neuron.cpp:



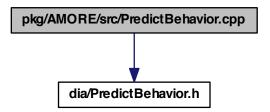
This graph shows which files directly or indirectly include this file:



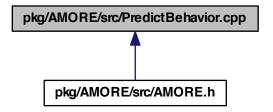
6.64 pkg/AMORE/src/PredictBehavior.cpp File Reference

#include "dia/PredictBehavior.h"

Include dependency graph for PredictBehavior.cpp:



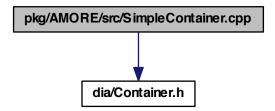
This graph shows which files directly or indirectly include this file:



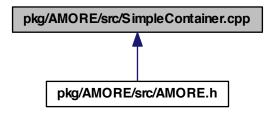
6.65 pkg/AMORE/src/SimpleContainer.cpp File Reference

#include "dia/Container.h"

Include dependency graph for SimpleContainer.cpp:



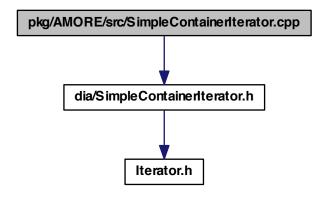
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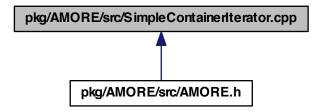
6.66 pkg/AMORE/src/SimpleContainerIterator.cpp File Reference

#include "dia/SimpleContainerIterator.h"

Include dependency graph for SimpleContainerIterator.cpp:

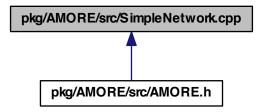


This graph shows which files directly or indirectly include this file:



6.67 pkg/AMORE/src/SimpleNetwork.cpp File Reference

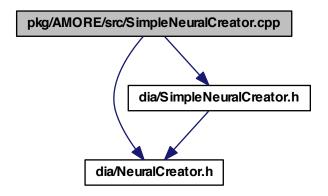
This graph shows which files directly or indirectly include this file:



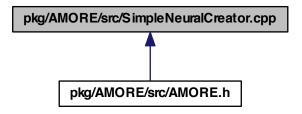
6.68 pkg/AMORE/src/SimpleNeuralCreator.cpp File Reference

```
#include "dia/NeuralCreator.h"
#include "dia/SimpleNeuralCreator.h"
```

 $Include\ dependency\ graph\ for\ SimpleNeuralCreator.cpp:$



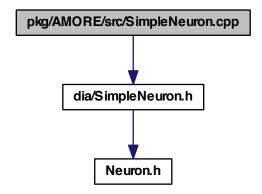
This graph shows which files directly or indirectly include this file:



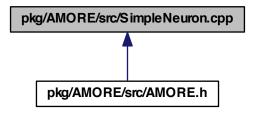
6.69 pkg/AMORE/src/SimpleNeuron.cpp File Reference

#include "dia/SimpleNeuron.h"

Include dependency graph for SimpleNeuron.cpp:



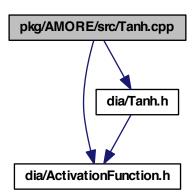
This graph shows which files directly or indirectly include this file:



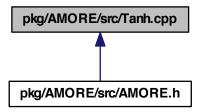
6.70 pkg/AMORE/src/Tanh.cpp File Reference

#include "dia/ActivationFunction.h"
#include "dia/Tanh.h"

Include dependency graph for Tanh.cpp:



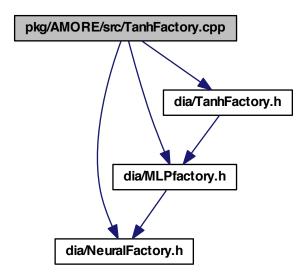
This graph shows which files directly or indirectly include this file:



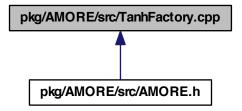
6.71 pkg/AMORE/src/TanhFactory.cpp File Reference

```
#include "dia/NeuralFactory.h"
#include "dia/MLPfactory.h"
#include "dia/TanhFactory.h"
```

Include dependency graph for TanhFactory.cpp:



This graph shows which files directly or indirectly include this file:



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