JavaScript is disabled on your browser.

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org.opencv.ml

## Class DTrees

* java.lang.Object
  + [org.opencv.core.Algorithm](http://docs.google.com/org/opencv/core/Algorithm.html)
    - [org.opencv.ml.StatModel](http://docs.google.com/org/opencv/ml/StatModel.html)
      * org.opencv.ml.DTrees
* Direct Known Subclasses: [Boost](http://docs.google.com/org/opencv/ml/Boost.html), [RTrees](http://docs.google.com/org/opencv/ml/RTrees.html)  
    
  public class DTrees  
  extends [StatModel](http://docs.google.com/org/opencv/ml/StatModel.html)  
  The class represents a single decision tree or a collection of decision trees. The current public interface of the class allows user to train only a single decision tree, however the class is capable of storing multiple decision trees and using them for prediction (by summing responses or using a voting schemes), and the derived from DTrees classes (such as RTrees and Boost) use this capability to implement decision tree ensembles. SEE: REF: ml\_intro\_trees

### Field SummaryFields

| Modifier and Type | Field and Description |
| --- | --- |
| static int | [**PREDICT\_AUTO**](http://docs.google.com/org/opencv/ml/DTrees.html#PREDICT_AUTO) |
| static int | [**PREDICT\_MASK**](http://docs.google.com/org/opencv/ml/DTrees.html#PREDICT_MASK) |
| static int | [**PREDICT\_MAX\_VOTE**](http://docs.google.com/org/opencv/ml/DTrees.html#PREDICT_MAX_VOTE) |
| static int | [**PREDICT\_SUM**](http://docs.google.com/org/opencv/ml/DTrees.html#PREDICT_SUM) |

### Fields inherited from class org.opencv.ml.[**StatModel**](http://docs.google.com/org/opencv/ml/StatModel.html)[COMPRESSED\_INPUT](http://docs.google.com/org/opencv/ml/StatModel.html#COMPRESSED_INPUT), [PREPROCESSED\_INPUT](http://docs.google.com/org/opencv/ml/StatModel.html#PREPROCESSED_INPUT), [RAW\_OUTPUT](http://docs.google.com/org/opencv/ml/StatModel.html#RAW_OUTPUT), [UPDATE\_MODEL](http://docs.google.com/org/opencv/ml/StatModel.html#UPDATE_MODEL)

### Method SummaryMethods

| Modifier and Type | Method and Description |
| --- | --- |
| static [DTrees](http://docs.google.com/org/opencv/ml/DTrees.html) | [**\_\_fromPtr\_\_**](http://docs.google.com/org/opencv/ml/DTrees.html#__fromPtr__(long))(long addr) |
| static [DTrees](http://docs.google.com/org/opencv/ml/DTrees.html) | [**create**](http://docs.google.com/org/opencv/ml/DTrees.html#create())() Creates the empty model The static method creates empty decision tree with the specified parameters. |
| int | [**getCVFolds**](http://docs.google.com/org/opencv/ml/DTrees.html#getCVFolds())() SEE: setCVFolds |
| int | [**getMaxCategories**](http://docs.google.com/org/opencv/ml/DTrees.html#getMaxCategories())() SEE: setMaxCategories |
| int | [**getMaxDepth**](http://docs.google.com/org/opencv/ml/DTrees.html#getMaxDepth())() SEE: setMaxDepth |
| int | [**getMinSampleCount**](http://docs.google.com/org/opencv/ml/DTrees.html#getMinSampleCount())() SEE: setMinSampleCount |
| [Mat](http://docs.google.com/org/opencv/core/Mat.html) | [**getPriors**](http://docs.google.com/org/opencv/ml/DTrees.html#getPriors())() SEE: setPriors |
| float | [**getRegressionAccuracy**](http://docs.google.com/org/opencv/ml/DTrees.html#getRegressionAccuracy())() SEE: setRegressionAccuracy |
| boolean | [**getTruncatePrunedTree**](http://docs.google.com/org/opencv/ml/DTrees.html#getTruncatePrunedTree())() SEE: setTruncatePrunedTree |
| boolean | [**getUse1SERule**](http://docs.google.com/org/opencv/ml/DTrees.html#getUse1SERule())() SEE: setUse1SERule |
| boolean | [**getUseSurrogates**](http://docs.google.com/org/opencv/ml/DTrees.html#getUseSurrogates())() SEE: setUseSurrogates |
| static [DTrees](http://docs.google.com/org/opencv/ml/DTrees.html) | [**load**](http://docs.google.com/org/opencv/ml/DTrees.html#load(java.lang.String))(java.lang.String filepath) Loads and creates a serialized DTrees from a file Use DTree::save to serialize and store an DTree to disk. |
| static [DTrees](http://docs.google.com/org/opencv/ml/DTrees.html) | [**load**](http://docs.google.com/org/opencv/ml/DTrees.html#load(java.lang.String,%20java.lang.String))(java.lang.String filepath, java.lang.String nodeName) Loads and creates a serialized DTrees from a file Use DTree::save to serialize and store an DTree to disk. |
| void | [**setCVFolds**](http://docs.google.com/org/opencv/ml/DTrees.html#setCVFolds(int))(int val) getCVFolds SEE: getCVFolds |
| void | [**setMaxCategories**](http://docs.google.com/org/opencv/ml/DTrees.html#setMaxCategories(int))(int val) getMaxCategories SEE: getMaxCategories |
| void | [**setMaxDepth**](http://docs.google.com/org/opencv/ml/DTrees.html#setMaxDepth(int))(int val) getMaxDepth SEE: getMaxDepth |
| void | [**setMinSampleCount**](http://docs.google.com/org/opencv/ml/DTrees.html#setMinSampleCount(int))(int val) getMinSampleCount SEE: getMinSampleCount |
| void | [**setPriors**](http://docs.google.com/org/opencv/ml/DTrees.html#setPriors(org.opencv.core.Mat))([Mat](http://docs.google.com/org/opencv/core/Mat.html) val) getPriors SEE: getPriors |
| void | [**setRegressionAccuracy**](http://docs.google.com/org/opencv/ml/DTrees.html#setRegressionAccuracy(float))(float val) getRegressionAccuracy SEE: getRegressionAccuracy |
| void | [**setTruncatePrunedTree**](http://docs.google.com/org/opencv/ml/DTrees.html#setTruncatePrunedTree(boolean))(boolean val) getTruncatePrunedTree SEE: getTruncatePrunedTree |
| void | [**setUse1SERule**](http://docs.google.com/org/opencv/ml/DTrees.html#setUse1SERule(boolean))(boolean val) getUse1SERule SEE: getUse1SERule |
| void | [**setUseSurrogates**](http://docs.google.com/org/opencv/ml/DTrees.html#setUseSurrogates(boolean))(boolean val) getUseSurrogates SEE: getUseSurrogates |

### Methods inherited from class org.opencv.ml.[**StatModel**](http://docs.google.com/org/opencv/ml/StatModel.html)[calcError](http://docs.google.com/org/opencv/ml/StatModel.html#calcError(org.opencv.ml.TrainData,%20boolean,%20org.opencv.core.Mat)), [empty](http://docs.google.com/org/opencv/ml/StatModel.html#empty()), [getVarCount](http://docs.google.com/org/opencv/ml/StatModel.html#getVarCount()), [isClassifier](http://docs.google.com/org/opencv/ml/StatModel.html#isClassifier()), [isTrained](http://docs.google.com/org/opencv/ml/StatModel.html#isTrained()), [predict](http://docs.google.com/org/opencv/ml/StatModel.html#predict(org.opencv.core.Mat)), [predict](http://docs.google.com/org/opencv/ml/StatModel.html#predict(org.opencv.core.Mat,%20org.opencv.core.Mat)), [predict](http://docs.google.com/org/opencv/ml/StatModel.html#predict(org.opencv.core.Mat,%20org.opencv.core.Mat,%20int)), [train](http://docs.google.com/org/opencv/ml/StatModel.html#train(org.opencv.core.Mat,%20int,%20org.opencv.core.Mat)), [train](http://docs.google.com/org/opencv/ml/StatModel.html#train(org.opencv.ml.TrainData)), [train](http://docs.google.com/org/opencv/ml/StatModel.html#train(org.opencv.ml.TrainData,%20int))

### Methods inherited from class org.opencv.core.[**Algorithm**](http://docs.google.com/org/opencv/core/Algorithm.html)[clear](http://docs.google.com/org/opencv/core/Algorithm.html#clear()), [getDefaultName](http://docs.google.com/org/opencv/core/Algorithm.html#getDefaultName()), [getNativeObjAddr](http://docs.google.com/org/opencv/core/Algorithm.html#getNativeObjAddr()), [save](http://docs.google.com/org/opencv/core/Algorithm.html#save(java.lang.String))

### Methods inherited from class java.lang.Objectequals, getClass, hashCode, notify, notifyAll, toString, wait, wait, wait

### Field Detail

#### PREDICT\_AUTO public static final int PREDICT\_AUTOSee Also:[Constant Field Values](http://docs.google.com/constant-values.html#org.opencv.ml.DTrees.PREDICT_AUTO)

#### PREDICT\_MASK public static final int PREDICT\_MASKSee Also:[Constant Field Values](http://docs.google.com/constant-values.html#org.opencv.ml.DTrees.PREDICT_MASK)

#### PREDICT\_MAX\_VOTE public static final int PREDICT\_MAX\_VOTESee Also:[Constant Field Values](http://docs.google.com/constant-values.html#org.opencv.ml.DTrees.PREDICT_MAX_VOTE)

#### PREDICT\_SUM public static final int PREDICT\_SUMSee Also:[Constant Field Values](http://docs.google.com/constant-values.html#org.opencv.ml.DTrees.PREDICT_SUM)

### Method Detail

#### \_\_fromPtr\_\_ public static [DTrees](http://docs.google.com/org/opencv/ml/DTrees.html) \_\_fromPtr\_\_(long addr)

#### create public static [DTrees](http://docs.google.com/org/opencv/ml/DTrees.html) create() Creates the empty model The static method creates empty decision tree with the specified parameters. It should be then trained using train method (see StatModel::train). Alternatively, you can load the model from file using Algorithm::load<DTrees>(filename).Returns:automatically generated

#### getCVFolds public int getCVFolds() SEE: setCVFoldsReturns:automatically generated

#### getMaxCategories public int getMaxCategories() SEE: setMaxCategoriesReturns:automatically generated

#### getMaxDepth public int getMaxDepth() SEE: setMaxDepthReturns:automatically generated

#### getMinSampleCount public int getMinSampleCount() SEE: setMinSampleCountReturns:automatically generated

#### getPriors public [Mat](http://docs.google.com/org/opencv/core/Mat.html) getPriors() SEE: setPriorsReturns:automatically generated

#### getRegressionAccuracy public float getRegressionAccuracy() SEE: setRegressionAccuracyReturns:automatically generated

#### getTruncatePrunedTree public boolean getTruncatePrunedTree() SEE: setTruncatePrunedTreeReturns:automatically generated

#### getUse1SERule public boolean getUse1SERule() SEE: setUse1SERuleReturns:automatically generated

#### getUseSurrogates public boolean getUseSurrogates() SEE: setUseSurrogatesReturns:automatically generated

#### load public static [DTrees](http://docs.google.com/org/opencv/ml/DTrees.html) load(java.lang.String filepath) Loads and creates a serialized DTrees from a file Use DTree::save to serialize and store an DTree to disk. Load the DTree from this file again, by calling this function with the path to the file. Optionally specify the node for the file containing the classifierParameters:filepath - path to serialized DTree Returns:automatically generated

#### load public static [DTrees](http://docs.google.com/org/opencv/ml/DTrees.html) load(java.lang.String filepath, java.lang.String nodeName) Loads and creates a serialized DTrees from a file Use DTree::save to serialize and store an DTree to disk. Load the DTree from this file again, by calling this function with the path to the file. Optionally specify the node for the file containing the classifierParameters:filepath - path to serialized DTreenodeName - name of node containing the classifier Returns:automatically generated

#### setCVFolds public void setCVFolds(int val) getCVFolds SEE: getCVFoldsParameters:val - automatically generated

#### setMaxCategories public void setMaxCategories(int val) getMaxCategories SEE: getMaxCategoriesParameters:val - automatically generated

#### setMaxDepth public void setMaxDepth(int val) getMaxDepth SEE: getMaxDepthParameters:val - automatically generated

#### setMinSampleCount public void setMinSampleCount(int val) getMinSampleCount SEE: getMinSampleCountParameters:val - automatically generated

#### setPriors public void setPriors([Mat](http://docs.google.com/org/opencv/core/Mat.html) val) getPriors SEE: getPriorsParameters:val - automatically generated

#### setRegressionAccuracy public void setRegressionAccuracy(float val) getRegressionAccuracy SEE: getRegressionAccuracyParameters:val - automatically generated

#### setTruncatePrunedTree public void setTruncatePrunedTree(boolean val) getTruncatePrunedTree SEE: getTruncatePrunedTreeParameters:val - automatically generated

#### setUse1SERule public void setUse1SERule(boolean val) getUse1SERule SEE: getUse1SERuleParameters:val - automatically generated

#### setUseSurrogates public void setUseSurrogates(boolean val) getUseSurrogates SEE: getUseSurrogatesParameters:val - automatically generated

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