

Package ‘ExtractTrainData’

June 23, 2020

Type Package

Title Extract Values from Raster

Version 9.1.5

Date 2020-06-23

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Description By using a multispectral image and ESRI shapefile (Point/ Line/ Polygon), a data table will be generated for classification, regression or other processing. The data table will be contained by band wise raster values and shapefile ids (User Defined).

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Repository CRAN

Depends raster,rgdal, sp

Imports rgeos

Encoding UTF-8

LazyData true

RoxygenNote 7.1.0

NeedsCompilation no

Date/Publication 2020-06-23 12:30:09 UTC

R topics documented:

ExtractByLine	2
ExtractByPoint	2
ExtractByPoly	3

Index	5
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ExtractByLine *Add a Line shapefile and raster image.*

Description

Add a Line shapefile and raster image.

Usage

```
ExtractByLine(img, line.shp, In.colName, Out.colName)
```

Arguments

img	Raster image
line.shp	Line shapefile with class info
In.colName	Name of the column contain line id's
Out.colName	Name of the output column contain line id's

Author(s)

Subhadip Datta

Examples

```
library(raster)
library(ExtractTrainData)
img<-brick(system.file("extdata","ras.tif",package = "ExtractTrainData"))
line.shp<-shapefile(system.file("extdata","lines.shp",package = "ExtractTrainData"))
Out.colName<-In.colName<-"Id"
ExtractByLine(img,line.shp,In.colName,Out.colName)
```

ExtractByPoint *Add a Point shapefile and raster image.*

Description

Add a Point shapefile and raster image.

Usage

```
ExtractByPoint(img, point.shp, In.colName, Out.colName)
```

Arguments

img	Raster image
point.shp	Point shapefile with class info
In.colName	Name of the column contain point id's
Out.colName	Name of the output column contain point id's

Author(s)

Subhadip Datta

Examples

```
library(raster)
library(ExtractTrainData)
img<-brick(system.file("extdata","ras.tif",package = "ExtractTrainData"))
point.shp<-shapefile(system.file("extdata","poin.shp",package = "ExtractTrainData"))
Out.colName<-In.colName<-"Id"
ExtractByPoint(img,point.shp,In.colName,Out.colName)
```

ExtractByPoly	<i>Add a Polygon shapefile and raster image.</i>
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Description

Add a Polygon shapefile and raster image.

Usage

```
ExtractByPoly(img, poly.shp, In.colName, Out.colName)
```

Arguments

img	Raster image
poly.shp	Polygon shapefile with class info
In.colName	Name of the column contain polygon id's
Out.colName	Name of the output column contain polygon id's

Author(s)

Subhadip Datta

Examples

```
library(raster)
library(ExtractTrainData)
img<-brick(system.file("extdata","ras.tif",package = "ExtractTrainData"))
poly.shp<-shapefile(system.file("extdata","poly_shp.shp",package = "ExtractTrainData"))
Out.colName<-In.colName<-"Id"

ExtractByPoly(img,poly.shp,In.colName,Out.colName)
```

Index

ExtractByLine, [2](#)
ExtractByPoint, [2](#)
ExtractByPoly, [3](#)