R Reference Card for Data Mining

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The latest version is available at http://www.RDataMining.com. Click the link also for document *R* and Data Mining: Examples and Case Studies.

The package names are in parentheses.

Association Rules & Frequent Itemsets

APRIORI Algorithm

a level-wise, breadth-first algorithm which counts transactions to find frequent itemsets

apriori () mine associations with APRIORI algorithm (arules)

ECLAT Algorithm

employs equivalence classes, depth-first search and set intersection instead of counting

eclat () mine frequent itemsets with the Eclat algorithm (arules)

Packages

arules mine frequent itemsets, maximal frequent itemsets, closed frequent itemsets and association rules. It includes two algorithms, Apriori and Eclat. *arules Viz* visualizing association rules

Sequential Patterns

Functions

cspade () mining frequent sequential patterns with the cSPADE algorithm (arulesSequences)

seqefsub() searching for frequent subsequences (*TraMineR*)

Packages

arules Sequences add-on for arules to handle and mine frequent sequences TraMineR mining, describing and visualizing sequences of states or events

Classification & Prediction

Decision Trees

ctree () conditional inference trees, recursive partitioning for continuous, censored, ordered, nominal and multivariate response variables in a conditional inference framework (party)

rpart () recursive partitioning and regression trees (rpart)

mob () model-based recursive partitioning, yielding a tree with fitted models associated with each terminal node (*party*)

Random Forest

cforest () random forest and bagging ensemble (party)

randomForest() random forest (randomForest)

varimp() variable importance (party)

importance() variable importance (randomForest)

Neural Networks

nnet () fit single-hidden-layer neural network (nnet)

mlp(), dlvq(), rbf(), rbfDDA(), elman(), jordan(),
 som(), art1(), art2(), artmap(), assoz()
 various types of neural networks (RSNNS)

neuralnet training of neural networks (*neuralnet*)

Support Vector Machine (SVM)

svm() train a support vector machine for regression, classification or density-estimation (e1071)

ksvm() support vector machines (*kernlab*)

Performance Evaluation

performance () provide various measures for evaluating performance of prediction and classification models (*ROCR*)

roc() build a ROC curve (pROC)

auc () compute the area under the ROC curve (pROC)

ROC () draw a ROC curve (DiagnosisMed)

PRcurve () precision-recall curves (*DMwR*)

CRchart () cumulative recall charts (DMwR)

Packages

rpart recursive partitioning and regression trees

party recursive partitioning

randomForest classification and regression based on a forest of trees using random inputs

rpartOrdinal ordinal classification trees, deriving a classification tree when the response to be predicted is ordinal

rpart.plot plots rpart models with an enhanced version of plot.rpart in the
rpart package

ROCR visualize the performance of scoring classifiers

pROC display and analyze ROC curves

nnet feed-forward neural networks and multinomial log-linear models

RSNNS neural networks in R using the Stuttgart Neural Network Simulator (SNNS)

neuralnet training of neural networks using backpropagation, resilient backpropagation with or without weight backtracking

Regression

Functions

lm() linear regression

glm() generalized linear regression

nls() non-linear regression

predict () predict with models

residuals () residuals, the difference between observed values and fitted values

gls () fit a linear model using generalized least squares (nlme)

gnls () fit a nonlinear model using generalized least squares (nlme)

Packages

nlme linear and nonlinear mixed effects models

Clustering

Partitioning based Clustering

partition the data into k groups first and then try to improve the quality of clustering by moving objects from one group to another

kmeans () perform k-means clustering on a data matrix

kmeansCBI () interface function for kmeans (fpc)

kmeansruns () call kmeans for the k-means clustering method and includes estimation of the number of clusters and finding an optimal solution from several starting points (*fpc*)

pam () the Partitioning Around Medoids (PAM) clustering method (cluster)

pamk () the Partitioning Around Medoids (PAM) clustering method with estimation of number of clusters (fpc)

clara() Clustering Large Applications (cluster)

fanny (x, k, . . .) compute a fuzzy clustering of the data into k clusters (*cluster*)

kcca () k-centroids clustering (flexclust)

ccfkms () clustering with Conjugate Convex Functions (cba)

apcluster() affinity propagation clustering for a given similarity matrix (apcluster)

apclusterK() affinity propagation clustering to get K clusters (apcluster)

cclust() Convex Clustering, incl. k-means and two other clustering algorithms (cclust)

KMeansSparseCluster() sparse k-means clustering (*sparcl*)

tclust(x,k,alpha,...) trimmed k-means with which a proportion alpha of observations may be trimmed (tclust)

Hierarchical Clustering

a hierarchical decomposition of data in either bottom-up (agglomerative) or topdown (divisive) way

hclust (d, method, ...) hierarchical cluster analysis on a set of dissimilarities d using the method for agglomeration

birch() the BIRCH algorithm that clusters very large data with a CF-tree (birch)

pvclust() hierarchical clustering with p-values via multi-scale bootstrap resampling (pvclust)

agnes () agglomerative hierarchical clustering (*cluster*)

diana() divisive hierarchical clustering (cluster)

mona () divisive hierarchical clustering of a dataset with binary variables only (cluster)

rockCluster() cluster a data matrix using the Rock algorithm (cba)

proximus () cluster the rows of a logical matrix using the Proximus algorithm (cba)

isopam() Isopam clustering algorithm (isopam)

LLAhclust () hierarchical clustering based on likelihood linkage analysis
(LLAhclust)

flashClust() optimal hierarchical clustering (*flashClust*)

fastcluster() fast hierarchical clustering (fastcluster)

cutreeDynamic(), cutreeHybrid() detection of clusters in hierarchical clustering dendrograms (dynamicTreeCut)

HierarchicalSparseCluster() hierarchical sparse clustering (sparcl)

Model based Clustering

Mclust() model-based clustering (mclust)

HDDC () a model-based method for high dimensional data clustering (HDclassif)

fixmahal () Mahalanobis Fixed Point Clustering (fpc)

fixreg() Regression Fixed Point Clustering (fpc)

mergenormals () clustering by merging Gaussian mixture components (fpc)

Density based Clustering

generate clusters by connecting dense regions

dbscan (data, eps, MinPts,...) generate a density based clustering of arbitrary shapes, with neighborhood radius set as eps and density threshold as MinPts (fpc)

pdfCluster() clustering via kernel density estimation (pdfCluster)



Other Clustering Techniques

mixer() random graph clustering (mixer)

nncluster() fast clustering with restarted minimum spanning tree (nnclust) orclus () ORCLUS subspace clustering (orclus)

Plotting Clustering Solutions

plotcluster() visualisation of a clustering or grouping in data (fpc) bannerplot () a horizontal barplot visualizing a hierarchical clustering (cluster)

Cluster Validation

silhouette () compute or extract silhouette information (*cluster*)

cluster.stats() compute several cluster validity statistics from a clustering and a dissimilarity matrix (fpc)

clValid() calculate validation measures for a given set of clustering algorithms and number of clusters (clValid)

clustIndex() calculate the values of several clustering indexes, which can be independently used to determine the number of clusters existing in a data set (cclust)

NbClust () provide 30 indices for cluster validation and determining the number of clusters (NbClust)

Packages

cluster cluster analysis

fpc various methods for clustering and cluster validation

mclust model-based clustering and normal mixture modeling

birch clustering very large datasets using the BIRCH algorithm

pvclust hierarchical clustering with p-values

apcluster Affinity Propagation Clustering

cclust Convex Clustering methods, including k-means algorithm, On-line Update algorithm and Neural Gas algorithm and calculation of indexes for finding the number of clusters in a data set

cba Clustering for Business Analytics, including clustering techniques such as Proximus and Rock

bclust Bayesian clustering using spike-and-slab hierarchical model, suitable for clustering high-dimensional data

biclust algorithms to find bi-clusters in two-dimensional data

clue cluster ensembles

clues clustering method based on local shrinking

clValid validation of clustering results

clv cluster validation techniques, contains popular internal and external cluster validation methods for outputs produced by package *cluster*

bayesclust tests/searches for significant clusters in genetic data

clustvarsel variable selection for model-based clustering

clustsig significant cluster analysis, tests to see which (if any) clusters are statistically different

clusterfly explore clustering interactively

clusterSim search for optimal clustering procedure for a data set

clusterGeneration random cluster generation

clusterCons calculate the consensus clustering result from re-sampled clustering experiments with the option of using multiple algorithms and parameter

gcExplorer graphical cluster explorer

hybridHclust hybrid hierarchical clustering via mutual clusters

Modalclust hierarchical modal Clustering

iCluster integrative clustering of multiple genomic data types

EMCC evolutionary Monte Carlo (EMC) methods for clustering

rEMM extensible Markov Model (EMM) for data stream clustering

Outlier Detection

boxplot.stats() \$out list data points lying beyond the extremes of the

lofactor() calculate local outlier factors using the LOF algorithm (DMwR or dprep)

lof () a parallel implementation of the LOF algorithm (*Rlof*)

extremevalues detect extreme values in one-dimensional data *mvoutlier* multivariate outlier detection based on robust methods *outliers* some tests commonly used for identifying outliers

Rlof a parallel implementation of the LOF algorithm

Time Series Analysis

Construction & Plot

ts() create time-series objects (stats)

plot.ts() plot time-series objects (stats)

smoothts() time series smoothing (ast)

sfilter() remove seasonal fluctuation using moving average (ast)

Decomposition

decomp () time series decomposition by square-root filter (timsac)

decompose () classical seasonal decomposition by moving averages (*stats*)

stl() seasonal decomposition of time series by loess (stats)

tsr() time series decomposition (ast)

ardec() time series autoregressive decomposition (ArDec)

Forecasting

arima() fit an ARIMA model to a univariate time series (stats) predict.Arima() forecast from models fitted by arima (stats) auto.arima() fit best ARIMA model to univariate time series (forecast) forecast.stl(), forecast.ets(), forecast.Arima()

forecast time series using stl, ets and arima models (forecast)

Packages

forecast displaying and analysing univariate time series forecasts

timsac time series analysis and control program

ast time series analysis

ArDec time series autoregressive-based decomposition

ares a toolbox for time series analyses using generalized additive models dse tools for multivariate, linear, time-invariant, time series models

Text Mining

Functions

Corpus () build a corpus, which is a collection of text documents (tm)

tm_map() transform text documents, e.g., stemming, stopword removal (tm)

tm_filter() filtering out documents (tm)

TermDocumentMatrix(), DocumentTermMatrix() construct a term-document matrix or a document-term matrix (tm)

Dictionary() construct a dictionary from a character vector or a termdocument matrix (tm)

findAssocs() find associations in a term-document matrix (tm)

findFreqTerms () find frequent terms in a term-document matrix (tm)

stemDocument () stem words in a text document (tm)

stemCompletion() complete stemmed words (tm)

termFreq() generate a term frequency vector from a text document (tm) **stopwords (language)** return stopwords in different languages (tm) removeNumbers(), removePunctuation(), removeWords() remove numbers, punctuation marks, or a set of words from a text docu-

removeSparseTerms() remove sparse terms from a term-document matrix

textcat() n-gram based text categorization (*textcat*)

SnowballStemmer() Snowball word stemmers (Snowball)

LDA () fit a LDA (latent Dirichlet allocation) model (*topicmodels*)

CTM() fit a CTM (correlated topics model) model (topicmodels)

terms () extract the most likely terms for each topic (topic models)

topics () extract the most likely topics for each document (topicmodels)

wordcloud() plot a word cloud (wordcloud)

comparison.cloud() plot a cloud comparing the frequencies of words across documents (wordcloud)

commonality.cloud() plot a cloud of words shared across documents (wordcloud)

Packages

tm a framework for text mining applications

lda fit topic models with LDA

ment (tm)

topic models with LDA and CTM

RTextTools automatic text classification via supervised learning

tm.plugin.dc a plug-in for package tm to support distributed text mining

tm.plugin.mail a plug-in for package tm to handle mail

RemdrPlugin.TextMining GUI for demonstration of text mining concepts and tm package

textir a suite of tools for inference about text documents and associated sentiment tau utilities for text analysis

textcat n-gram based text categorization

wordcloud various word clouds

Social Network Analysis and Graph Mining

graph(), graph.edgelist(), graph.adjacency(),

graph.incidence() create graph objects respectively from edges, an edge list, an adjacency matrix and an incidence matrix (*igraph*)

plot(), tkplot(), rglplot() static, interactive and 3D plotting of graphs (igraph)

gplot(), gplot3d() plot graphs (sna)

vcount(), ecount() number of vertices/edges (igraph)

V(), **E()** vertex/edge sequence of igraph (*igraph*)

is.directed() whether the graph is directed (*igraph*)

are.connected() check whether two nodes are connected (igraph)

degree(), betweenness(), closeness(), transitivity() various centrality scores (*igraph*, *sna*)

add.edges(), add.vertices(), delete.edges(),

delete.vertices() add and delete edges and vertices (*igraph*)

neighborhood() neighborhood of graph vertices (*igraph*, *sna*) get.adjlist() adjacency lists for edges or vertices (igraph)

nei(), adj(), from(), to() vertex/edge sequence indexing (igraph)

cliques(), largest.cliques(), maximal.cliques(),

clique.number() find cliques, ie. complete subgraphs (igraph) clusters(), no.clusters() maximal connected components of a

graph and the number of them (igraph)



fastgreedy.community(), spinglass.community() community boxplot.stats() box plot statistics detection (igraph) cohesive.blocks() calculate cohesive blocks (igraph) induced. subgraph () create a subgraph of a graph (*igraph*) %->%, %<-%, %--% edge sequence indexing (*igraph*) **get.edgelist()** return an edge list in a two-column matrix (*igraph*) read.graph(), write.graph() read and writ graphs from and to files of various formats (igraph) **Packages** igraph network analysis and visualization

sna social network analysis

statnet a set of tools for the representation, visualization, analysis and simulation of network data

egonet ego-centric measures in social network analysis

snort social network-analysis on relational tables

network tools to create and modify network objects

bipartite visualising bipartite networks and calculating some (ecological) indices **blockmodeling** generalized and classical blockmodeling of valued networks

diagram visualising simple graphs (networks), plotting flow diagrams

NetCluster clustering for networks

NetData network data for McFarland's SNA R labs

NetIndices estimating network indices, including trophic structure of foodwebs

NetworkAnalysis statistical inference on populations of weighted or unweighted

tnet analysis of weighted, two-mode, and longitudinal networks

triads triad census for networks

Spatial Data Analysis

Functions

geocode () geocodes a location using Google Maps (ggmap)

qmap () quick map plot (ggmap)

get_map () queries the Google Maps, OpenStreetMap, or Stamen Maps server for a map at a certain location (ggmap)

qvisGeoChart(), qvisGeoMap(), qvisIntensityMap(), gvisMap() Google geo charts and maps (googleVis)

GetMap () download a static map from the Google server (*RgoogleMaps*)

ColorMap () plot levels of a variable in a colour-coded map (*RgoogleMaps*) PlotOnStaticMap() overlay plot on background image of map tile (RgoogleMaps)

TextOnStaticMap() plot text on map (RgoogleMaps)

Packages

plotGoogleMaps plot spatial data as HTML map mushup over Google Maps RgoogleMaps overlay on Google map tiles in R

plotKML visualization of spatial and spatio-temporal objects in Google Earth ggmap Spatial visualization with Google Maps and OpenStreetMap

clustTool GUI for clustering data with spatial information

SGCS Spatial Graph based Clustering Summaries for spatial point patterns spdep spatial dependence: weighting schemes, statistics and models

Statistics

Summarization

summary() summarize data

describe () concise statistical description of data (*Hmisc*)

Analysis of Variance

aov () fit an analysis of variance model (*stats*)

anova () compute analysis of variance (or deviance) tables for one or more fitted model objects (stats)

Statistical Test

t.test() student's t-test (stats)

prop.test() test of equal or given proportions (stats)

binom.test() exact binomial test (stats)

Mixed Effects Models

1me () fit a linear mixed-effects model (nlme)

nlme() fit a nonlinear mixed-effects model (nlme)

Principal Components and Factor Analysis

princomp() principal components analysis (stats)

prcomp () principal components analysis (stats)

Other Functions

var(), cov(), cor() variance, covariance, and correlation (stats)

density () compute kernel density estimates (*stats*)

Packages

nlme linear and nonlinear mixed effects models

Graphics

Functions

plot () generic function for plotting (graphics)

barplot(), pie(), hist() bar chart, pie chart and histogram (graph-

boxplot () box-and-whisker plot (*graphics*)

stripchart() one dimensional scatter plot (*graphics*)

dotchart () Cleveland dot plot (graphics)

ggnorm(), ggplot(), ggline() OO (quantile-quantile) plot (stats)

coplot () conditioning plot (graphics)

splom() conditional scatter plot matrices (lattice)

pairs () a matrix of scatterplots (graphics)

cpairs () enhanced scatterplot matrix (*gclus*)

parcoord() parallel coordinate plot (MASS)

cparcoord() enhanced parallel coordinate plot (*gclus*)

paracoor() parallel coordinates plot (denpro)

parallelplot () parallel coordinates plot (lattice)

densityplot() kernel density plot (*lattice*)

contour(), filled.contour() contour plot (graphics)

levelplot(), contourplot() level plots and contour plots (lattice)

smoothScatter() scatterplots with smoothed densities color representation:

capable of visualizing large datasets (graphics) **sunflowerplot()** a sunflower scatter plot (graphics)

assocplot () association plot (*graphics*)

mosaicplot() mosaic plot (graphics)

matplot() plot the columns of one matrix against the columns of another

fourfoldplot () a fourfold display of a $2 \times 2 \times k$ contingency table (graphics)

persp () perspective plots of surfaces over the x?y plane (graphics)

cloud(), wireframe() 3d scatter plots and surfaces (lattice)

interaction.plot() two-way interaction plot (stats)

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iplot(), ihist(), ibar(), ipcp() interactive scatter plot, his-
      togram, bar plot, and parallel coordinates plot (iplots)
pdf(), postscript(), win.metafile(), jpeg(), bmp(),
      png(), tiff() save graphs into files of various formats
gvisAnnotatedTimeLine(), gvisAreaChart(),
      qvisBarChart(), qvisBubbleChart(),
      gvisCandlestickChart(), gvisColumnChart(),
      gvisComboChart(), gvisGauge(), gvisGeoChart(),
      gvisGeoMap(), gvisIntensityMap(),
      gvisLineChart(), gvisMap(), gvisMerge(),
      gvisMotionChart(), gvisOrgChart(),
      qvisPieChart(), qvisScatterChart(),
      gvisSteppedAreaChart(), gvisTable(),
      qvisTreeMap() various interactive charts produced with the Google
      Visualisation API (googleVis)
```

gvisMerge() merge two googleVis charts into one (googleVis)

Packages

ggplot2 an implementation of the Grammar of Graphics

googleVis an interface between R and the Google Visualisation API to create

lattice a powerful high-level data visualization system, with an emphasis on multivariate data

vcd visualizing categorical data

denpro visualization of multivariate, functions, sets, and data *iplots* interactive graphics

Data Manipulation

Functions

transform() transform a data frame

scale () scaling and centering of matrix-like objects

t () matrix transpose

aperm() array transpose

sample() sampling

table(), tabulate(), xtabs() cross tabulation (stats)

stack(), unstack() stacking vectors

split(), unsplit() divide data into groups and reassemble

reshape () reshape a data frame between "wide" and "long" format (stats)

merge () merge two data frames; similar to database join operations

aggregate() compute summary statistics of data subsets (stats)

by () apply a function to a data frame split by factors

melt(), cast() melt and then cast data into the reshaped or aggregated form you want (reshape)

complete.cases () find complete cases, i.e., cases without missing values na.fail, na.omit, na.exclude, na.pass handle missing values

Packages

reshape flexibly restructure and aggregate data

data.table extension of data.frame for fast indexing, ordered joins, assignment, and grouping and list columns

gdata various tools for data manipulation

Data Access

Functions

save(), load() save and load R data objects

read.csv(), write.csv() import from and export to .CSV files



read.table(), write.table(), scan(), write() read and big.matrix() create a standard big.matrix, which is constrained to availwrite data read.fwf() read fixed width format files (utils) write.matrix() write a matrix or data frame (MASS) readLines(), writeLines() read/write text lines from/to a connection, such as a text file **sqlQuery ()** submit an SQL query to an ODBC database (*RODBC*) sqlFetch() read a table from an ODBC database (RODBC) sqlSave(), sqlUpdate() write or update a table in an ODBC database (RODBC) sqlColumns () enquire about the column structure of tables (*RODBC*) sglTables () list tables on an ODBC connection (RODBC) odbcConnect(), odbcClose(), odbcCloseAll() open/close connections to ODBC databases (RODBC) dbSendQuery execute an SQL statement on a given database connection (DBI)dbConnect(), dbDisconnect() create/close a connection to a DBMS (DBI)**Packages** RODBC ODBC database access **DBI** a database interface (DBI) between R and relational DBMS RMvSOL interface to the MySOL database RJDBC access to databases through the JDBC interface RSQLite SQLite interface for R ROracle Oracle database interface (DBI) driver RpgSQL DBI/RJDBC interface to PostgreSQL database **RODM** interface to Oracle Data Mining xlsReadWrite read and write Excel files WriteXLS create Excel 2003 (XLS) files from data frames **MapReduce and Hadoop Functions Packages** rmr2 perform data analysis with R via MapReduce on a Hadoop cluster *rhdfs* connect to the Hadoop Distributed File System (HDFS) rhbase connect to the NoSOL HBase database **Rhipe** R and Hadoop Integrated Processing Environment RHive distributed computing via HIVE query Segue Parallel R in the cloud using Amazon's Elastic Map Reduce (EMR) engine HadoopStreaming Utilities for using R scripts in Hadoop streaming hive distributed computing via the MapReduce paradigm rHadoopClient Hadoop client interface for R rHadoopClient sadfdsafdsa Large Data Functions as.ffdf() coerce a dataframe to an ffdf (ff) read.table.ffdf(), read.csv.ffdf() read data from a flat file to an ffdf object (ff) write.table.ffdf(), write.csv.ffdf() write an ffdf object to a knitr a general-purpose package for dynamic report generation in R **ffdfappend ()** append a dataframe or an ffdf to an existing ffdf (*ffdf*)

able RAM (bigmemory) read.big.matrix() create a big.matrix by reading from an ASCII file write.big.matrix() write a big.matrix to a file (bigmemory) filebacked.big.matrix() create a file-backed big.matrix, which may exceed available RAM by using hard drive space (bigmemory) **mwhich()** expanded "which"-like functionality (*bigmemory*) **Packages** ff memory-efficient storage of large data on disk and fast access functions ffbase basic statistical functions for package ff filehash a simple key-value database for handling large data g.data create and maintain delayed-data packages BufferedMatrix a matrix data storage object held in temporary files biglm regression for data too large to fit in memory bigmemory manage massive matrices with shared memory and memory-mapped biganalytics extend the bigmemory package with various analytics bigtabulate table-, tapply-, and split-like functionality for matrix and big.matrix objects **Parallel Computing Functions** foreach(...) %dopar% looping in parallel (foreach) registerDoSEQ(), registerDoSNOW(), registerDoMC() register respectively the sequential, SNOW and multicore parallel backend with the *foreach* package (*foreach*, *doSNOW*, *doMC*) sfInit(), sfStop() initialize and stop the cluster (snowfall) sfLapply(), sfSapply(), sfApply() parallel versions of lapply(), sapply(), apply() (snowfall) **Packages** multicore parallel processing of R code on machines with multiple cores or **snow** simple parallel computing in R snowfall usability wrapper around snow for easier development of parallel R snowFT extension of snow supporting fault tolerant and reproducible applications, and easy-to-use parallel programming **Rmpi** interface (Wrapper) to MPI (Message-Passing Interface) rpvm R interface to PVM (Parallel Virtual Machine) nws provide coordination and parallel execution facilities foreach foreach looping construct for R doMC foreach parallel adaptor for the multicore package doSNOW for each parallel adaptor for the snow package **doMPI** foreach parallel adaptor for the *Rmpi* package doParallel foreach parallel adaptor for the multicore package doRNG generic reproducible parallel backend for foreach Loops GridR execute functions on remote hosts, clusters or grids fork R functions for handling multiple processes **Generating Reports Sweave ()** mixing text and R/S code for automatic report generation (*utils*)

R2HTML making HTML reports



R2PPT generating Microsoft PowerPoint presentations

MultiBoostAB(), Stacking(),

CostSensitiveClassifier()

Normalize(), Discretize()

Tinn-R a free GUI for R language and environment

rattle graphical user interface for data mining in R

Rpad workbook-style, web-based interface to R

Other R Reference Cards

R Reference Card, by Tom Short

R Reference Card, by Jonathan Baron

R Functions for Regression Analysis, by Vito Ricci

R Functions for Time Series Analysis, by Vito Ricci

R-refcard.pdf or

pdf

RStudio a free integrated development environment (IDE) for R

gWidgets a toolkit-independent API for building interactive GUIs

Red-R An open source visual programming GUI interface for R

latticist a graphical user interface for exploratory visualisation

Apriori(), Tertius()

Package RWeka is an R interface to Weka, and enables to use the following Weka

LinearRegression(), Logistic(), SMO()

AdaBoostM1(), Bagging(), LogitBoost(),

JRip(), M5Rules(), OneR(), PART()

J48(), LMT(), M5P(), DecisionStump()

Cobweb(), FarthestFirst(), SimpleKMeans(),

IteratedLovinsStemmer(), LovinsStemmer()

AlphabeticTokenizer(), NGramTokenizer(),

RPMG graphical user interface (GUI) for interactive R analysis sessions

R AnalyticFlow a software which enables data analysis by drawing analysis

http://rpad.googlecode.com/svn-history/r76/Rpad_homepage/

http://cran.r-project.org/doc/contrib/Ricci-refcard-regression.

http://cran.r-project.org/doc/contrib/Ricci-refcard-ts.pdf

http://cran.r-project.org/doc/contrib/Short-refcard.pdf

http://cran.r-project.org/doc/contrib/refcard.pdf

Interface to Weka

functions in R.

Regression and classification:

IBk(), LBR()

Regression and classification trees:

XMeans(), DBScan()

WordTokenizer()

Association rules:

Lazy classifiers:

Meta classifiers:

Rule classifiers:

Word stemmers:

Editors/GUIs

Clustering:

Filters:

RDataMining Website, Group, Twitter & Package

RDataMining Website:

http://www.rdatamining.com

RDataMining Group on LinkedIn (2900+ members):

http://group.rdatamining.com

RDataMining on Twitter (1200+ followers):

http://twitter.com/rdatamining

RDataMining Project on R-Forge:

http://www.rdatamining.com/package

http://package.rdatamining.com

Comments & Feedback

If you have any comments, or would like to suggest any relevant R packages/functions, please feel free to email yanchang@rdatamining.com. Thanks.

What's New

- 1 August 2013:
- Click a package in this PDF file to find it on CRAN.
- A few packages for MapReduce and Hadoop have been added.

