

Changes on CRAN

2012-11-29 to 2013-05-25

by Kurt Hornik and Achim Zeileis

New CRAN task views

MetaAnalysis Topic: Meta-Analysis. Maintainer: Michael Dewey. Packages: [CRTSize](#), [HSROC](#), [MADAM](#), [MAMA](#), [MAc](#), [MAAd](#), [MetABEL](#), [MetaDE](#), [MetaPCA](#), [MetaPath](#), [MetaQC](#), [RcmdrPlugin.MA](#), [SAMURAI](#), [SCMA](#), [bamdit](#), [bspmma](#), [compute.es](#), [copas](#), [epiR](#), [gap](#), [gemtc](#), [mada](#), [meta*](#), [metaLik](#), [metaMA](#), [metacor](#), [metafor*](#), [metagen](#), [metamisc](#), [metatest](#), [mvmeta](#), [mvtmeta](#), [psychometric](#), [rmeta](#), [selectMeta](#), [skatMeta](#).

SpatioTemporal Topic: Handling and Analyzing Spatio-Temporal Data. Maintainer: Edzer Pebesma. Packages: [GeoLight](#), [M3](#), [RNetCDF](#), [RandomFields*](#), [RghcnV3](#), [SpatioTemporal](#), [Stem](#), [adehabitatLT*](#), [argosfilter](#), [cshapes](#), [diveMove](#), [googleVis](#), [gstat*](#), [lgcp](#), [lme4](#), [mvtsplot](#), [ncdf](#), [ncdf4](#), [nlme](#), [openair](#), [pastecs](#), [pbdNCDF4](#), [plm](#), [plotKML](#), [raster*](#), [rasterVis](#), [rgl](#), [solaR](#), [sp*](#), [spBayes](#), [spTimer](#), [spacetime*](#), [spate](#), [spatstat](#), [sphet](#), [splancs](#), [splm](#), [stam](#), [stpp*](#), [stppResid](#), [surveillance*](#), [trip*](#), [tripEstimation](#), [xts*](#).

(* = core package)

New packages in CRAN task views

Bayesian [PAWL](#), [RSGHB](#), [bspec](#), [eco](#), [stochvol](#).

ChemPhys [astro](#), [simecol](#), [stepPlr](#).

ClinicalTrials [CRM](#), [epibasix](#).

Cluster [EMCluster](#), [FisherEM](#), [GLDEX](#), [MFDA](#), [Rmpi](#), [latentnet](#), [optpart](#).

DifferentialEquations [PBSmodelling](#), [primer](#).

Distributions [ActuDistns*](#), [CDVine](#), [Delaporte](#), [GLDEX](#), [PhaseType](#), [VineCopula](#), [cop-Basic](#), [lmom](#), [retimes](#), [rlecuyer](#).

Econometrics [LARF](#), [RSGHB](#), [partsm](#), [survival](#).

Environmetrics [earth](#), [flexmix](#), [fso](#), [ipred](#), [maptree](#), [mda](#), [metacom](#), [primer](#), [pvclust](#), [quantreg](#), [rioja](#), [seas](#), [surveillance](#), [unmarked](#), [untb](#).

ExperimentalDesign [BatchExperiments](#), [crossdes](#), [displayHTS](#), [gsbDesign](#), [planor](#).

Finance [BurStMisc](#), [ESG](#), [FinTS](#), [GUIDE](#), [PIN](#), [SharpeR](#), [highfrequency](#), [nlme](#), [parma](#), [rmgarch](#), [stochvol](#).

Genetics [hierfstat](#), [qtlbim](#).

Graphics [RGtk2](#), [ash](#), [biclust](#), [cba](#), [diagram](#), [igraph](#), [onion](#), [playwith](#), [scagnostics](#), [seriation](#).

HighPerformanceComputing [bayesm](#), [bigrf](#), [doRNG](#), [latentnet](#), [mapReduce](#), [mchof](#), [pbd-DEMO](#), [pbdNCDF4](#), [permGPU](#), [rredis](#), [sprint](#), [xgrid](#).

MachineLearning [Rmalschains](#), [bigrf](#), [frbs](#), [maptree](#).

MedicalImaging [bayesm](#), [brainwaver](#), [waveslim](#).

Multivariate [FAiR](#), [MFDA](#), [cwhmisc](#), [fso](#).

NaturalLanguageProcessing RcmdrPlugin.temis, SnowballC, qdap, tm.plugin.factiva.

OfficialStatistics JoSAE, MatchIt, SamplingStrata, hbsae, lavaan, lavaan.survey, lpSolve, odfWeave, rsae, samplingVarEst, tabplot, treemap, x12GUI.

Optimization adagio.

Pharmacokinetics PKPDmodels, deSolve, nlme.

Phylogenetics iteRates.

Psychometrics FAiR*, MultiLCIRT, classify, fastICA, kst, lavaan.survey, mclRT, pks.

ReproducibleResearch cacher, markdown, pander, rapport.

Robust RobLoxBioC, coxrobust, lqmm, robustX, robustlmm, rrcovHD, rrcovNA.

SocialSciences BMA, GPArotation, acepack, latentnet, lattice, lme4, meta, mvnmle, perturb, rgl, vcd.

Spatial DCluster*, micromap.

Survival Biograph, SmoothHazard, SvyNom, aBioMarVsuit, bscr, bwsurvival, currentSurvival, gems, ipdmeta, jackknifeKME, lbiassurv, plsRcox, randomForestSRC, survexp.fr, timeROC.

TimeSeries FGN, MAR1, PVAClone, Quandl, TSTutorial, TimeProjection, arfima, brainwaver, bspec, events, fpp, nets, partsm, perARMA, rdatamarket, rts, seas, stochvol, surveillance, tframe, tsbugs.

gR BRugs, GeneNet, dclone, gRapHD, gRim, network, parcor.

(* = core package)

New contributed packages

A3 Accurate, Adaptable, and Accessible Error Metrics for Predictive Models. Author: Scott Fortmann-Roe.

ABCExtremes ABC Extremes. Author: Rob Erhardt.

ABCp2 Approximate Bayesian Computational model for estimating P2. Authors: M. Catherine Duryea, Andrew D. Kern, Robert M. Cox, and Ryan Calsbeek.

ALDqr Algorithm Laplace density quantile regression. Authors: Luis Benites Sanchez, Victor Lachos.

ALKr Generate Age-Length Keys for fish populations. Authors: Jose Francisco Loff, Alberto Murta, Laurence Kell.

ARAMIS A R Adaptive Multiple Importance Sampling. Authors: Luca Pozzi, Antonietta Mira.

AnthropMMD A GUI for Mean Measures of Divergence. Author: Frederic Santos.

ArrayBin My First Collection of Functions. Author: Ed Curry.

BACprior Sensitivity of the Bayesian Adjustment for Confounding (BAC) algorithm to the choice of hyperparameter omega. Authors: Denis Jf Talbot, Geneviève Lefebvre, Juli Atherton.

BH The Boost C++ Libraries. Authors: John W. Emerson, Michael J. Kane, Dirk Eddelbuettel, JJ Allaire, and Romain Francois.

- BOG** Bacterium and virus analysis of Orthologous Groups (BOG) is a package for identifying differentially regulated genes in the light of gene functions. Authors: Jincheol Park, Cenny Taslim, Shili Lin.
- BSquare** Bayesian Simultaneous Quantile Regression. Author: Luke Smith & Brian Reich.
- BaySIC** Bayesian Analysis of Significantly Mutated Genes in Cancer. Author: Nicholas B. Larson.
- BayesBridge** Bridge Regression. Authors: Nicholas G. Polson, James G. Scott, and Jesse Windle.
- BayesComm** Bayesian community ecology analysis. Author: Nick Golding.
- BayesVarSel** Bayesian Variable selection in Linear Models. Authors: Gonzalo Garcia-Donato and Anabel Forte.
- BcDiag** Diagnostics plots for Bicluster Data. Authors: Aregay Mengsteab, Martin Otava, Tatsiana Khamiakova.
- BenfordTests** Statistical Tests for Evaluating Conformity to Benford's Law. Authors: Dieter William Joenssen, with contributions from Thomas Muellerleile.
- BiDimRegression** Calculates the bidimensional regression between two 2D configurations. Author: Claus-Christian Carbon.
- BlockMessage** Creates strings that show a text message in 8 by 8 block letters. Authors: Elliot Noma, Aliona Manvae.
- BurStMisc** Burns Statistics miscellaneous. Author: Burns Statistics. In view: [Finance](#).
- CAMAN** Finite Mixture Models and meta-analysis tools — based on C.A.MAN. Authors: Peter Schlattmann, Johannes Hoehne.
- CCAGFA** Bayesian canonical correlation analysis and group factor analysis. Authors: Seppo Virtanen and Arto Klami.
- CDLasso** Coordinate Descent Algorithms for Lasso Penalized L1, L2, and Logistic Regression. Authors: Edward Grant, Kenneth Lange, Tong Tong Wu.
- CLAG** An unsupervised non hierarchical clustering algorithm handling biological data. Authors: Linda Dib, Raphael Champeimont, Alessandra Carbone.
- COBRA** Nonlinear Aggregation of Predictors. Author: Benjamin Guedj.
- CUMP** Analyze Multivariate Phenotypes by Combining Univariate results. Authors: Xuan Liu and Qiong Yang.
- CaDENCE** Conditional Density Estimation Network Construction and Evaluation. Author: Alex J. Cannon.
- CfEstimateQuantiles** Estimate quantiles using any order Cornish-Fisher expansion. Author: Maxim Yurchuk.
- CheckDigit** Calculate and verify check digits. Author: Justin Brantley.
- CoinMinD** Simultaneous Confidence Interval for Multinomial Proportion. Author: M. Subbiah.
- Comp2ROC** Compare two ROC curves that intersect. Authors: Ana C. Braga, with contributions from Hugo Frade.
- ConConPiWiFun** An implementation of continuous convex piecewise (linear) functions. Author: Robin Girard.

- CondReg** Condition Number Regularized Covariance Estimation. Authors: Sang-Yun Oh, Bala Rajaratnam, Joong-Ho Won.
- CountsEPPM** Mean and variance modeling of count data. Authors: David M Smith, Malcolm J Faddy.
- DMR** Delete or Merge Regressors for linear model selection. Authors: Aleksandra Maj, Agnieszka Prochenka, Piotr Pokarowski.
- DPw** Semiparametric Bayesian procedure for selecting a subset containing the weakest species with an acceptably high probability. Author: Yumi Kondo.
- DTComPair** Comparison of Binary Diagnostic Tests in a Paired Study Design. Authors: Christian Stock, Thomas Hielscher.
- DataCombine** R tools for making it easier to combine and clean data sets. Author: Christopher Gandrud.
- DataFrameConstr** Constrained data frames and homogenous list classes. Author: Jeffrey Arnold.
- Delaporte** Statistical functions for the Delaporte distribution. Author: Avraham Adler. In view: *Distributions*.
- Demerelate** Functions to calculate relatedness on diploid genetic data. Authors: Philipp Kraemer and Gabriele Gerlach.
- DendSer** Dendrogram seriation: ordering for visualisation. Authors: Catherine B. Hurley and Denise Earle.
- Digiroo2** An application programming interface for generating null models of social contacts based on individuals' space use. Authors: Ross Dwyer, Emily Best and Anne Goldizen.
- Dominance** ADI (average dominance index) and social network graphs with dual directions. Authors: Knut Krueger, with contributions from Konstanze Krueger.
- EMCluster** EM Algorithm for Model-Based Clustering of Finite Mixture Gaussian Distribution. Authors: Wei-Chen Chen [aut, cre], Ranjan Maitra [aut], Volodymyr Melnykov [aut]. In view: *Cluster*.
- ESG** Asset projection. Authors: Jean-Charles Croix, Thierry Moudiki, Frédéric Planchet, Wassim Youssef. In view: *Finance*.
- EasyHTMLReport** Easy to send HTML reports. Author: Yohei Sato.
- EasyUpliftTree** Easy Uplift Tree Model. Authors: Yohei Sato, Issei Kurahashi.
- EpiModel** Mathematical Modeling of Infectious Disease. Author: Samuel Jenness [cre, aut].
- ExactCIdiff** Inductive Confidence Intervals for the difference between two proportions. Authors: Guogen Shan, Weizhen Wang.
- ExactNumCI** Exact Confidence Interval for binomial proportions. Authors: Deqiang Sun, Hyun Jung Park.
- ExactPath** Exact solution paths for regularized LASSO regressions with L_1 penalty. Author: Kai Wang.
- ExactSampling** ExactSampling: risk evaluation using exact resampling methods for the k Nearest Neighbor algorithm. Author: Kai Li.
- ExceedanceTools** Confidence Regions for Exceedance Sets. Author: Joshua French.

- ExpDes.pt** Pacote Experimental Designs (Portuguese). Authors: Eric Batista Ferreira, Pórtia Piscitelli Cavalcanti, Denismar Alves Nogueira.
- FAOSTAT** A complementary package to the FAOSTAT database and the Statistical Yearbook of the Food and Agricultural Organization of the United Nations. Author: Michael C. J. Kao.
- FBFsearch** Algorithm for searching the space of Gaussian directed acyclic graphical models through moment fractional Bayes factors. Authors: Davide Altomare, Guido Consonni and Luca La Rocca.
- FI** Provide functions for forest inventory calculations. Author: David V. Dias [aut, cre].
- FRAPO** Financial Risk Modelling and Portfolio Optimisation with R. Authors: Bernhard Pfaff [aut, cre], Miguel Sousa Lobo [ctb] (SOCP), Lieven Vandenberghe [ctb] (SOCP), Stephen Boyd [ctb] (SOCP), Herve Lebrete [ctb] (SOCP).
- FastPCS** Compute the FastPCS outlyingness index. Author: Kaveh Vakili.
- FindIt** Find Heterogeneous Treatment Effects. Authors: Marc Ratkovic, Kosuke Imai.
- FluOMatic** Estimation of background-subtracted fluorescence data. Authors: Sebastien Joucla, Christophe Pouzat.
- FuzzyNumbers** Tools to deal with fuzzy numbers in R. Author: Marek Gagolewski.
- FuzzyStatProb** Fuzzy stationary probabilities from a sequence of observations of an unknown Markov chain. Author: Pablo J. Villacorta.
- FuzzyToolkitUoN** Type 1 Fuzzy Logic Toolkit. Authors: Craig Knott, Luke Hovell, Nathan Karimian with supervision from Jon Garibaldi.
- GAIPE** Graphical Extension with Accuracy in Parameter Estimation (GAIPE). Author: Tzu-Yao Lin.
- GESTr** Gene Expression State Transformation. Author: Ed Curry.
- GOsummaries** Word cloud summaries of GO enrichment analysis. Author: Raivo Kolde.
- GRaF** Species distribution modelling using latent Gaussian random fields. Author: Nick Golding.
- GSIF** Global Soil Information Facilities. Authors: Tomislav Hengl [cre, aut], Bas Kempen [aut], Gerard Heuvelink [aut], Brendan Malone [ctb], Hannes Reuter [ctb].
- GUIDE** GUI for DERivatives in R. Author: S Subramanian. In view: *Finance*.
- GWG** Calculation of probabilities for inadequate and excessive gestational weight gain. Author: Christina Riedel.
- GeneticTools** Collection of Genetic Data Analysis Tools. Author: Daniel Fischer.
- GetR** GetR: Calculate Guttman error trees in R. Authors: Johannes Beller, Soeren Kliem.
- GibbsACOV** Gibbs Sampler for One-Way Mixed-Effects ANOVA and ANCOVA Models. Authors: Emily Goren and Quan Zhang.
- GoFKernel** GoFKernel: Testing Goodness-of-fit with the Kernel Density Estimator. Author: Jose M. Pavia.
- GriegSmith** Uses Grieg-Smith method on 2 dimensional spatial data. Author: Brian McGuire. In view: *Spatial*.
- GuardianR** Guardian API Wrapper. Author: Marco Toledo Bastos & Cornelius Puschmann.

- HAPROR** Recursive Organizer (ROR). Authors: Lue Ping Zhao and Xin Huang.
- HPOSim** Analysis similarities between HPO terms and phenotypic similarity between genes and between diseases. Authors: Yue Deng, Gang Wang, Xiaocheng Huang and Tingting Ma.
- IBDhaploRtools** Functions for the Analysis of IBD Haplo output. Author: Marshall Brown.
- IBHM** Approximation using the IBHM method. Author: Pawel Zawistowski.
- IM** Orthogonal Moment Analysis. Authors: Bartek Rajwa, Murat Dundar, Allison Irvine, Tan Dang.
- Iboot** Iboot: iterated bootstrap tests and confidence sets. Author: Nicola Lunardon.
- InferenceSMR** Inference about the standardized mortality ratio when evaluating the effect of a screening program on survival. Authors: Denis Talbot, Thierry Duchesne, Jacques Brisson, Nathalie Vandal.
- InteractiveIGraph** Interactive network analysis and visualization. Author: Vygantas Butkus.
- KappaGUI** GUI for Cohen's and Fleiss' Kappa. Author: Frederic Santos.
- Kmisc** Miscellaneous functions intended to improve the R coding experience. Author: Kevin Ushey.
- LARF** Local Average Response Functions for Estimating Treatment Effects. Authors: Weihua An and Xuefu Wang. In view: [Econometrics](#).
- LDExplorer** Efficient Whole-Genome LD Based Haplotpe Block Recognition. Authors: Daniel Taliun, Johann Gamper, Cristian Pattaro.
- LDOD** Finding Locally D-optimal optimal designs for some nonlinear and generalized linear models. Authors: Ehsan Masoudi, Majid Sarmad and Hooshang Talebi.
- Lock5Data** Datasets for "Statistics: UnLocking the Power of Data". Author: Robin Lock.
- MALDIquantForeign** Import/Export routines for **MALDIquant**. Author: Sebastian Gibb [aut, cre].
- MAR1** Multivariate Autoregressive Modeling for Analysis of Community Time-Series Data. Author: Lindsay P. Scheef. In view: [TimeSeries](#).
- MASSTIMATE** Body Mass Estimation Equations for Vertebrates. Author: Nicolas E. Campione.
- MCPerm** A Monte Carlo permutation method for multiple test correlation in case/control association study. Authors: Lanying Zhang and Yongshuai Jiang.
- MDPtoolbox** Markov Decision Processes toolbox. Authors: Iadine Chades, Guillaume Chapron, Marie-Josée Cros, Frederick Garcia, Régis Sabbadin.
- MEET** Motif Elements Estimation Toolkit. Authors: Joan Maynou and Erola Pairo.
- MOJOV** Mojo Variants: Rare Variants analysis. Author: Ke-Hao Wu.
- MSwM** Fitting Markov Switching Models. Authors: Josep A. Sanchez-Espigares, Alberto Lopez-Moreno.
- MVN** Multivariate Normality Tests. Author: Selcuk Korkmaz.
- MapGAM** Mapping Smoothed Odds Ratios from Individual-Level Data. Authors: Veronica Vieira, Scott Bartell, and Robin Bliss.
- MedOr** Median Ordering Statistical R package. Authors: Adriano Polpo, Carlos Alberto de Braganca Pereira.

- MetaSKAT** Meta analysis for SNP-set (Sequence) Kernel Association Test. Author: Seunggeun Lee.
- MiClip** A Model-based Approach to Identify Binding Sites in CLIP-Seq Data. Author: Tao Wang.
- MiST** Mixed effects Score Test for continuous outcomes. Authors: Jianping Sun, Yingye Zheng, and Li Hsu.
- MicroStrategyR** Author: Rick Pechter.
- MixMAP** Implements the MixMAP algorithm. Author: Gregory J. Matthews.
- MixtureInf** Inference for Finite Mixture Models. Authors: Jiahua Chen and Pengfei Li.
- MonetDB.R** Connect MonetDB to R. Authors: Hannes Muehleisen [aut, cre], Thomas Lumley [ctb], Anthony Damico [ctb].
- MonoPoly** Functions to fit monotone polynomials. Authors: Berwin A. Turlach [aut, cre], Kevin Murray [ctb].
- Morpho** Calculations and visualizations related to Geometric Morphometrics. Author: Stefan Schlager.
- MuFiCokriging** Multi-Fidelity Cokriging models. Author: Loic Le Gratiet.
- MultinomialCI** Simultaneous confidence intervals for multinomial proportions according to the method by Sison and Glaz. Author: Pablo J. Villacorta.
- NHEMOTree** Non-hierarchical evolutionary multi-objective tree learner to perform cost-sensitive classification. Author: Swaantje Casjens.
- NPCD** Nonparametric Methods for Cognitive Diagnosis. Authors: Yi Zheng and Chia-Yi Chiu, with contributions from Jeffrey A. Douglas.
- NPCirc** Nonparametric Circular Methods. Authors: Maria Oliveira, Rosa M. Crujeiras and Alberto Rodríguez-Casal.
- Nozzle.R1** Nozzle Reports. Author: Nils Gehlenborg.
- OPDOE** Optimal Design Of Experiments. Authors: Petr Simecek, Juergen Pilz Mingui Wang, Albrecht Gebhardt.
- OmicKriging** OmicKriging for Phenotypic Prediction. Authors: Hae Kyung Im, Heather E. Wheeler.
- OneTwoSamples** Deal with one and two (normal) samples. Author: Ying-Ying Zhang (Robert).
- OpenMPController** Control number of OpenMP threads dynamically. Author: Simon Guest.
- OptInterim** Optimal Two and Three Stage Designs for Single-Arm and Two-Arm Randomized Controlled Trials with a Long-Term Binary Endpoint. Authors: Bo Huang and Neal Thomas.
- OrdLogReg** Ordinal Logic Regression. Author: Bethany Wolf.
- OutlierDC** Outlier Detection using Quantile Regression for Censored Data. Authors: Soo-Heang Eo and HyungJun Cho.
- PAGI** Identify the dysregulated KEGG pathways based on global influence from the internal effect of pathways and crosstalk between pathways. Authors: Junwei Han, Yanjun Xu, Haixiu Yang, Chunquan Li and Xia Li.

- PBSmapping** Mapping Fisheries Data and Spatial Analysis Tools. Authors: Jon T. Schnute, Nicholas Boers, Rowan Haigh, Chris Grandin, Angus Johnson, Paul Wessel, Franklin Antonio. In view: *Spatial*.
- PCovR** Principal Covariates Regression. Authors: Marlies Vervloet [aut, cre], Henk Kiers [aut], Eva Ceulemans [ctb].
- PIN** Estimates the parameters of a trading-tree model for the computation of the probability of informed trading. Author: P. Zagaglia. In view: *Finance*.
- PROTOLIDAR** PROcess TOol LIdar DAta in R. Author: Monica Fernanda Rinaldi.
- PReMiuM** Dirichlet Process Bayesian Clustering, Profile Regression. Authors: David I. Hastie, Silvia Liverani and Sylvia Richardson, with a contribution by Lamiae Azizi.
- PResiduals** Probability scale residuals and residual correlations. Authors: Charles Dupont, Chun Li, Bryan Shepherd.
- PST** Probabilistic Suffix Trees. Author: Alexis Gabadinho.
- PamGeneMixed** Preprocessing and Modeling Kinase Activity Profiles in PamChip Data. Authors: Pushpike Thalikarathne, Ziv Shkedy, Dan Lin, Lieven Clement, and Geert Verbeke.
- PlotRegionHighlighter** Creates an envelope that surrounds a set of points plotted in a two dimensional space. Author: Elliot Noma.
- PracTools** Tools for Designing and Weighting Survey Samples. Authors: Richard Valliant, Jill A. Dever, Frauke Kreuter.
- PropClust** Propensity Clustering and Decomposition. Authors: John Michael O Ranola, Kenneth Lange, Steve Horvath, Peter Langfelder.
- PropScrRand** Propensity score methods for assigning treatment in randomized trials. Author: Travis M. Loux.
- PurBayes** Bayesian Estimation of Tumor Purity and Clonality. Author: Nicholas B. Larson.
- Quandl** Quandl Data Connection. Authors: Raymond McTaggart, Gergely Daroczi. In view: *TimeSeries*.
- RAFM** Admixture F-model. Author: Markku Karhunen.
- RAP** Reversal Association Pattern. Authors: U. Sangeetha, M. Subbiah with considerable contribution from M.R. Srinivasan.
- RCA** Relational Class Analysis. Authors: Amir Goldberg, Gabor Csardi, Jinjian Zhai.
- RCircos** Circos 2D Track Plot. Author: Hongen Zhang.
- RClimMAWGEN** R Climate Index Multi-site Auto-regressive Weather GENerator: a package to generate time series of climate indices from RMAWGEN generations. Authors: Emanuele Cordano, Annalisa Di Piazza.
- RDIDQ** Perform Quality check on data. Author: Rahul Mehta.
- RDSTK** An R wrapper for the Data Science Toolkit API. Authors: Ryan Elmore and Andrew Heiss.
- REBayes** Empirical Bayes Estimation and Inference in R. Author: Roger Koenker.
- RFGLS** a family GWAS data-analysis tool that uses a generalized least squares method to perform single-marker association analysis. Authors: Xiang Li, Robert M. Kirkpatrick, and Saonli Basu.

- RMessenger** IM Client for R. Authors: Wush Wu, Jack Moffitt and Patrick Powell.
- ROSE** ROSE: Random Over-Sampling Examples. Authors: Nicola Lunardon, Giovanna Menardi, Nicola Torelli.
- RSA** Response surface analyses. Author: Felix Schönbrodt.
- RSAP** SAP Netweaver RFC connector for R. Author: Piers Harding.
- RSGHB** Functions for Hierarchical Bayesian Estimation: A Flexible Approach. Authors: Jeff Dumont, Jeff Keller, Chase Carpenter. In views: *Bayesian*, *Econometrics*.
- RSiteCatalyst** Adobe (Omniure) Reporting API. Author: Randy Zwitch & Jowanza Joseph.
- RadialPlotter** Statistical age models analysis in optically stimulated luminescence dating. Author: Peng Jun.
- RbioRXN** Process Rhea and MetaCyc (BioCyc, EcoCyc) biochemical reaction data. Authors: Byoungnam Min, Kyoung Heon Kim and In-Geol Choi.
- RcmdrPlugin.EZR** R Commander Plug-in for the EZR (Easy R) Package. Author: Yoshinobu Kanda.
- RcmdrPlugin.MA** Graphical User Interface for Conducting Meta-Analyses in R. Author: AC Del Re. In view: *MetaAnalysis*.
- RcmdrPlugin.SM** Rcmdr Sport Management Plug-In. Author: Stéphane Champely.
- RcmdrPlugin.lfstat** Rcmdr Plug-In for low flow analysis. Authors: Daniel Koffler and Gregor Laaha.
- RcmdrPlugin.plotByGroup** Rcmdr plots by group using lattice. Author: Poul Svante Eriksen with contributions by Ege Rubak.
- RcmdrPlugin.seeg** Rcmdr Plugin for *seeg*. Author: Miguel F. Acevedo.
- RcmdrPlugin.temis** Graphical user interface providing an integrated text mining solution. Authors: Milan Bouchet-Valat [aut, cre], Gilles Bastin [aut]. In view: *NaturalLanguageProcessing*.
- RcppClassicExamples** Examples using RcppClassic to interface R and C++. Authors: Dirk Eddelbuettel and Romain Francois, based on code written during 2005 and 2006 by Dominick Samperi.
- RcppProgress** An interruptible progress bar with OpenMP support for C++ in R packages. Author: Karl Forner.
- RcppRoll** Fast rolling functions through Rcpp and RcppArmadillo. Author: Kevin Ushey.
- RcppXts** Interface the xts API via Rcpp. Author: Dirk Eddelbuettel.
- Reol** R interface to the Encyclopedia of Life. Authors: Barb Banbury, Brian O'Meara.
- Rgbp** Bayesian Hierarchical Modeling and Frequentist Method Check. Authors: Joseph Kelly, Carl Morris, and Hyungsuk Tak.
- Rgnuplot** R interface for gnuplot. Authors: Göran Högnäs [ths], Nicolas Devillard [aut], Mauricio Galo [ctb], Patrick J. Bartlein [ctb], Oscar Perpiñán Lamigueiro [ctb], José Gama [aut, cre].
- Ritc** Isothermal Titration Calorimetry (ITC) Data Analysis. Author: Yingyun Liu.
- SAMURAI** Sensitivity Analysis of a Meta-analysis with Unpublished but Registered Analytical Investigations. Authors: Noory Y. Kim. Advisors: Shrikant I. Bangdiwala, Gerald Gartlehner. In view: *MetaAnalysis*.

- SAVE** Implementation of the SAVE approach for Computer Models. Authors: Rui Paulo, Gonzalo Garcia-Donato, and Jesus Palomo, with contributions from J. Berger, S. Bayarri and J. Sacks.
- SDBP** Calculate the third-order accurate Unbiased P-values via Speedy double bootstrap method. Author: Aizhen Ren.
- SDD** Serial Dependence Diagrams. Authors: Luca Bagnato, Lucio De Capitani, Angelo Mazza and Antonio Punzo.
- SEMID** Identifiability of linear structural equation models. Authors: Rina Foygel, Mathias Drton.
- SLHD** Maximin-Distance (Sliced) Latin Hypercube Designs. Author: Shan Ba.
- SMCRM** Data Sets for Statistical Methods in Customer Relationship Management by Kumar and Petersen (2012). Authors: Tobias Verbeke, based on datasets provided on the book's website.
- SMFI5** R functions and data from Chapter 5 of "Statistical Methods for Financial Engineering". Author: Bruno Remillard.
- SMNCensReg** Fitting univariate censored regression model under the scale mixture of normal distributions. Authors: Aldo M. Garay, Victor Lachos and Monique Bettio Massuia.
- SNPMClust** A bivariate Gaussian genotype clustering and calling algorithm for Illumina microarrays. Authors: Stephen W. Erickson, with contributions from Joshua Callaway.
- SNPtools** Accessing, subsetting and plotting mouse SNPs. Author: Daniel Gatti.
- SODC** Optimal Discriminant Clustering (ODC) and Sparse Optimal Discriminant Clustering (SODC). Author: Yanhong Wang.
- SOLOMON** Parentage analysis. Author: Mark Christie.
- SSDforR** SSD for R to analyze single system data. Authors: Charles Auerbach, Wendy Zeitlin Schudrich.
- SSN** Spatial Modeling on Stream Networks. Authors: Jay Ver Hoef and Erin Peterson.
- SUE** Subsampling method. Author: Jim Yi.
- SemiMarkov** Multi-States Semi-Markov Models. Authors: Agnieszka Listwon, Philippe Saint-Pierre.
- Sequential** Exact Sequential Analysis for Poisson Data. Authors: Ivair Ramos Silva and Martin Kulldorff.
- SetMethods** SetMethods: A Package Companion to "Set-Theoretic Methods for the Social Sciences" Author: Mario Quaranta.
- SharpeR** Statistical significance of Sharpe ratio. Author: Steven E. Pav. In view: *Finance*.
- Skillings.Mack** The Skillings-Mack test Statistic for block designs with missing observations. Authors: Patchanok Srisuradetchai, John J. Borkowski.
- SmoothHazard** Fitting illness-death model for interval-censored data. Authors: Celia Touraine, Pierre Joly, Thomas A. Gerds. In view: *Survival*.
- SnowballC** Snowball stemmers based on the C libstemmer UTF-8 library. Author: Milan Bouchet-Valat [aut, cre]. In view: *NaturalLanguageProcessing*.
- SparseTSCGM** Sparse time series chain graphical models. Authors: Fentaw Abegaz and Ernst Wit.

- SphericalCubature** Numerical integration over spheres and balls in n-dimensions; multi-variate polar coordinates. Authors: John P. Nolan.
- StVAR** Student's t Vector Autoregression (StVAR). Author: Niraj Poudyal.
- Stack** Stylized concatenation of data.frames or fdfds. Author: Mike Malecki.
- StandardizeText** Standardize Text. Author: David Nepomechie.
- Stat2Data** Datasets for Stat2. Author: Robin Lock.
- SvyNom** Nomograms for Right-Censored Outcomes from Survey Designs. Authors: Mithat Gonen, Marinela Capanu. In view: *Survival*.
- TDD** Time-Domain Deconvolution of Seismometer Response. Author: Jake Anderson.
- TestScorer** Scores tests, shows and saves the results. Author: Manel Salamero.
- TimeMachine** Time Machine. Authors: Gianluca Campanella [aut, cre], Marc Chadeau-Hyam [aut], Maria De Iorio [ctb], Ajay Jasra [ctb].
- TimeProjection** Time Projections. Author: Jeffrey Wong. In view: *TimeSeries*.
- TraMineRextras** Extras for use with the **TraMineR** package. Authors: Gilbert Ritschard, Reto Bürgin and Matthias Studer, with contributions from Alexis Gabadinho, Nicolas Müller and Patrick Rousset.
- TreeSimGM** Simulating Phylogenetic Trees under a General Model. Authors: Oskar Hagen, Tanja Stadler.
- UWHAM** Unbinned weighted histogram analysis method (UWHAM). Authors: Zhiqiang Tan and Emilio Gallicchio.
- VGAMdata** Data supporting the **VGAM** package. Author: Thomas W. Yee.
- VisuClust** Authors: Michael Sieger and Georg Ohmayer.
- WARN** Weaning Age Reconstruction with Nitrogen isotope analysis. Author: Takumi Tsutaya.
- WebDevelopR** Website development package for R. Authors: Evan Ray, Peter Krafft, John Staudenmayer.
- WeightedCluster** Clustering of Weighted Data. Author: Matthias Studer.
- WordPools** Classical word pools used in studies of learning and memory. Author: Michael Friendly.
- XiMpLe** A simple XML tree parser and generator. Author: m.eik michalke.
- YplantQMC** Plant architectural analysis with Yplant and QuasiMC. Authors: Remko Durisma. QuasiMC by Mik Cieslak. Uses code by Robert Percy (Yplant) and Belinda Medlyn (MAESTRA).
- YuGene** YuGene for comparing gene expression across platforms. Authors: Leo McHugh, Kim-Anh Le Cao.
- ZeBook** ZeBook Working with dynamic models for agriculture and environment. Authors: Francois Brun, David Makowski, Daniel Wallach, James W. Jones.
- aBioMarVsuit** A Biomarker Validation Suit for predicting Survival using gene signature. Authors: Pushpike Thalikarathne and Ziv Shkedy. In view: *Survival*.
- aCRM** Convenience functions for analytical Customer Relationship Management. Authors: Dirk Van den Poel, Michel Ballings, Andrey Volkov, Jeroen D'haen, Michiel Vanherwegen.

- abctools** Tools for ABC analyses. Authors: Matt Nunes and Dennis Prangle.
- agrm** Calculate agreement. Author: Didier Ruedin.
- akmeans** Adaptive Kmeans algorithm based on threshold. Author: Jungsuk Kwac.
- alr4** Data to accompany “Applied Linear Regression” 4rd edition. Author: Sanford Weisberg.
- aods3** Analysis of Overdispersed Data using S3 methods. Authors: Matthieu Lesnoff and Renaud Lancelot.
- arfima** Fractional ARIMA Time Series Modeling. Authors: Justin Q. Veenstra, A.I. McLeod. In view: *TimeSeries*.
- argparse** Command line optional and positional argument parser. Author: Trevor L Davis. Ports examples from the argparse Python module by the Python Software Foundation. Ports examples from the **getopt** package by Allen Day.
- astro** Astronomy Functions, Tools and Routines. Author: Lee Kelvin. In view: *ChemPhys*.
- audiolyzR** Give your data a listen. Authors: Eric Stone, Jesse Garrison.
- bPeaks** A simple and intuitive approach for detection of basic peaks (bPeaks) from ChIP-seq data. Authors: Jawad MERHEJ and Gaelle LELANDAIS.
- bagRboostR** Ensemble bagging and boosting classifiers. Author: Shannon Rush.
- bayess** Bayesian Essentials with R. Authors: Christian P. Robert, Universite Paris Dauphine, and Jean-Michel Marin, Universite Montpellier 2.
- bbo** Biogeography-Based Optimization. Authors: Sarvesh Nikumbh (BBO originally invented by Prof. Dan Simon, Cleveland State University, Ohio).
- bgeva** Binary Generalized Extreme Value Additive Models. Authors: Raffaella Calabrese, Giampiero Marra and Silvia Anlgela Osmetti.
- bigRR** Generalized Ridge Regression (with special advantage for $p \gg n$ cases). Authors: Xia Shen, Moudud Alam and Lars Ronnegard.
- bigrf** Big Random Forests: Classification and Regression Forests for Large Data Sets. Authors: Aloysius Lim, Leo Breiman, Adele Cutler. In views: *HighPerformanceComputing*, *MachineLearning*.
- biom** Interface (beta) for the BIOM file format. Authors: Paul J. McMurdie and the biom-format team.
- bmr** Bundle Methods for Regularized Risk Minimization Package. Author: Julien Prados.
- bnpmr** Bayesian monotonic nonparametric regression. Author: Bjoern Bornkamp.
- boilerpipeR** Interface to the boilerpipe Java library by Christian Kohlschutter (<http://code.google.com/p/boilerpipe/>). Author: Mario Annau [aut, cre].
- bride** Brier score decomposition of probabilistic forecasts for binary events. Author: Stefan Siegert.
- brnn** Bayesian regularization for feed-forward neural networks. Authors: Paulino Perez Rodriguez, Daniel Gianola.
- bscr** Bayesian parametric and semi-parametric analyses for semi-competing risks data. Authors: Kyu Ha Lee, Sebastien Haneuse, Deborah Schrag, and Francesca Dominici. In view: *Survival*.

- c060** Additional variable selection, model validation and parameter tuning functions for glmnet models. Authors: Martin Sill, Thomas Hielscher, Manuela Zucknick, Natalia Becker.
- cape** Combined analysis of pleiotropy and epistasis. Authors: Anna L. Tyler, Wei Lu, Justin J. Hendrick, Vivek M. Philip, and Greg W. Carter.
- catenary** Fits a catenary to given points. Authors: Jonathan Tuke, Matthew Roughan.
- causalsens** Selection Bias Approach to Sensitivity Analysis for Causal Effects. Author: Matthew Blackwell.
- cdb** Reading and Writing Constant DataBases. Author: Emilio Torres Manzanera [aut, cre].
- cec2013** Benchmark functions for the Special Session and Competition on Real-Parameter Single Objective Optimization at CEC-2013. Authors: Mauricio Zambrano-Bigiarini [aut, cre], Yasser Gonzalez Fernandez [aut].
- celestial** Collection of common astronomical conversion routines. Author: Aaron Robotham.
- cgAUC** Calculate AUC-type measure when gold standard is continuous and the corresponding optimal linear combination of variables with respect to it. Authors: Yuan-chin I. Chang, Yu-chia Chang, and Ling-wan Chen.
- chebpol** Multivariate Chebyshev interpolation. Author: Simen Gaure.
- chillR** Statistical methods for phenology analysis in temperate fruit trees. Author: Eike Luedeling.
- citcmst** CIT Colon Cancer Molecular SubTypes Prediction. Author: Laetitia Marisa.
- cladoRcpp** C++ implementations of phylogenetic calculations. Author: Nicholas J. Matzke [aut, cre, cph].
- cldr** Language Identifier based on CLD library. Authors: The Chromium Authors, Mike McCandless, Matt Sanford, Aykut Firat.
- clinUtiDNA** Clinical Utility of DNA Testing. Author: Thuy Trang Nguyen.
- cocor** Comparing correlations. Author: Birk Diedenhofen.
- coefficientalpha** Robust Cronbach's alpha with missing and non-normal data. Authors: Zhiyong Zhang and Ke-Hai Yuan.
- colorfulVennPlot** Plot and add custom coloring to Venn diagrams for 2-dimensional, 3-dimensional and 4-dimensional data. Authors: Elliot Noma, Aliona Manvae.
- compositionsGUI** Graphical User Environment for Compositional Data Analysis. Authors: Jiri Eichler, Karel Hron, Raimon Tolosana-Delgado, Gerald van den Boogaart, Matthias Templ, Peter Filzmoser.
- conting** Bayesian analysis of contingency tables. Author: Antony M. Overstall.
- corHMM** Analysis of binary character evolution. Authors: Jeremy M. Beaulieu, Jeffrey C. Oliver, Brian O'Meara.
- covTest** Computes covariance test for adaptive linear modelling. Authors: Richard Lockhart, Jon Taylor, Ryan Tibshirani, Rob Tibshirani.
- currentSurvival** Estimation of CCI and CLFS Functions. Authors: Eva Janousova, Tomas Pavlik, Jiri Mayer, Ladislav Dusek. In view: *Survival*.
- cvAUC** Cross-Validated Area Under the ROC Curve Confidence Intervals. Authors: Erin LeDell, Maya Petersen, Mark van der Laan.

- cvxclustr** Splitting methods for convex clustering. Author: Eric C. Chi.
- cwm** Cluster Weighted Models by EM algorithm. Authors: Giorgio A. Spedicato, Simona C. Minotti.
- datacheck** Tools for checking data consistency. Author: Reinhard Simon.
- dataone** DataONE R Client. Authors: Matthew Jones, Rob Nahf.
- dataonelibs** DataONE R Client Libraries. Authors: Matthew Jones, Rob Nahf.
- datautils** Support functions for packages **VBmix**, **semisupKernelPCA**, and **patchPlot**. Author: Pierrick Bruneau.
- dave** Functions for “Data Analysis in Vegetation Ecology”. Author: Otto Wildi.
- dbEmpLikeNorm** Test for joint assessment of normality. Authors: Lori A. Shepherd, Wan-Min Tsai, Albert Vexler, Jeffrey C. Miecznikowski.
- dclong.spt** Sequential Permutation Test. Author: Chuanlong (Ben) Du.
- ddalpha** DDalpha-Classifer. Authors: Oleksii Pokotylo, Pavlo Mozharovskiy.
- demi** Differential Expression from Multiple Indicators. Authors: Sten Ilmarjv and Hendrik Luuk.
- dendroextras** Extra functions to cut, label and colour dendrogram clusters. Author: Gregory Jefferis.
- designGG** Computational tool for designing genetical genomics experiments. Authors: Yang Li, Morris Swertz, Gonzalo Vera, Rainer Breitling, Ritsert Jansen.
- df2json** Convert a dataframe to JSON. Author: Nacho Caballero.
- diffdepprop** Calculates Confidence Intervals for two Dependent Proportions. Authors: Daniela Wenzel, Antonia Zapf.
- discreteRV** Author: Andreas Buja.
- discrimARTs** Discrimination of Alternative Reproductive Tactics (ARTs). Authors: J. Mark Rowland, Clifford Qualls, and Christian Gunning.
- displayHTS** Author: Xiaohua Douglas Zhang & Zhaozhi Zhang. In view: *ExperimentalDesign*.
- distory** Distance Between Phylogenetic Histories. Authors: John Chakerian and Susan Holmes. In view: *Phylogenetics*.
- distrRmetrics** Package **distr** classes for distributions from Rmetrics. Authors: Nataliya Horbenko, Matthias Kohl, Daria Pupashenko, Myhailo Pupashenko, Peter Ruckdeschel.
- driftsel** Distinguishing drift and natural selection as causes of phenotypic differentiation. Author: Markku Karhunen & Otso Ovaskainen.
- dvN** Access to The Dataverse Network API. Author: Thomas J. Leeper.
- eHOF** Extended and enhanced Hierarchical Logistic Regression models (so called Huisman-Olff-Fresco models). Authors: Florian Jansen, Jari Oksanen.
- earlywarnings** Early Warning Signals Toolbox for Detecting Critical Transitions in Time-series. Authors: Vasilis Dakos, with contributions from S.R. Carpenter, T. Cline, L. Lahti.
- easystab** Clustering Perturbation Stability Analysis. Authors: Hoyt Koepke, Zongjun Hu, Bertrand Clarke.

- ecosim** Toolbox for Aquatic Ecosystem Modeling. Author: Peter Reichert.
- ecp** Nonparametric Multiple Change Point Analysis of Multivariate Data. Authors: Nicholas A. James and David S. Matteson.
- eive** An algorithm for reducing errors-in-variable bias in simple linear regression. Authors: Mehmet Hakan Satman, Erkin Diyarbakirlioglu.
- ensembleMOS** Ensemble Model Output Statistics. Authors: RA Yuen, Tilmann Gneiting, Thordis Thorarinsdottir, Chris Fraley.
- epibase** basic tools for the analysis of disease outbreaks. Authors: The Hackout team (In alphabetic order: David Aanensen, Marc Baguelin, Paul Birrell, Simon Cauchemez, Anton Camacho, Caroline Colijn, Anne Cori, Xavier Didelot, Ken Eames, Christophe Fraser, Simon Frost, Niel Hens, Joseph Hugues, Thibaut Jombart, Lulla Opatowski, Oliver Ratmann, Samuel Soubeyrand, Marc Suchard, Jacco Wallinga, Rolf Ypma).
- ergm.count** Fit, Simulate and Diagnose Exponential-Family Models for Networks with Count Edges. Authors: Pavel N. Krivitsky [aut, cre], Mark S. Handcock [ctb], David R. Hunter [ctb].
- ergmharris** Local Health Department network data set. Author: Jenine K. Harris.
- eventstudies** Event study and extreme event analysis. Authors: Ajay Shah, Vimal Balasubramaniam, Vikram Bahure.
- expoTree** Calculate density dependent likelihood of a phylogenetic tree. Authors: Gabriel E Leventhal, partly adapted from MATLAB code by Awad H. Al-Mohy and using the routines DLNAC1 and DLARPC by Sheung Hun Cheng, and DLAPST from ScaLAPACK.
- exsic** Convenience functions for botanist to create exsiccatae indices. Authors: Reinhard Simon, David M. Spooner.
- fail** File Abstraction Interface Layer (FAIL) mimicking a key-value store. Author: Michel Lang.
- farsi** Translate integers into persian. Author: Sadegh Rasoulinejad.
- fastclime** A fast solver for constrained l1 minimization approach to sparse precision matrix estimation. Authors: Haotian Pang, Han Liu and Robert Vanderbei.
- fbRanks** Association Football (Soccer) Ranking via Poisson Regression. Author: Eli Holmes.
- fftwtools** Author: Karim Rahim.
- fit.models** Author: Kjell Konis.
- gIPFrm** Generalized Iterative Proportional Fitting for Relational Models. Authors: Anna Klimova, Tamas Rudas.
- gains** Gains Table Package. Author: Craig A. Rolling.
- gamlr** Gamma Lasso Regression. Author: Matt Taddy.
- gaoptim** Genetic Algorithm optimization for real-based and permutation-based problems. Author: Fernando Tenorio.
- gazetools** Gaze Tools. Author: Ryan M. Hope.
- gcookbook** Data for “R Graphics Cookbook”. Author: Winston Chang.
- geigen** Calculate generalized eigenvalues of a matrix pair. Author: Berend Hasselman.

- gems** Generalized multistate simulation model. Authors: Luisa Salazar Vizcaya, Nello Blaser, Thomas Gsponer. In view: *Survival*.
- genMOSS** An implementation of the MOSS algorithm for the analysis of GWAS data. Authors: Matthew Friedlander and Laurent Briollais.
- gensemble** Generalized ensemble methods. Authors: Peter Werner, Eugene Dubossarsky.
- geoscale** Geological timescale plot. Author: Mark A. Bell.
- geospacom** Helper package to facilitate the generation of distance matrices used in the package **spacom**. Authors: Davide Morselli [aut], Mathieu Cossuta [aut, cre], Till Junge [aut], Sandra Penic [aut], Guy Elcherroth [ctb], Stephanie Glaeser [ctb].
- ggdendro** Tools for extracting dendrogram and tree diagram plot data for use with **ggplot**. Authors: Andrie de Vries, Brian Ripley.
- ggthemes** Extra themes, scales and geoms for **ggplot**. Author: Jeffrey B. Arnold.
- glassomix** High dimensional Sparse Gaussian Graphical Mixture Model. Authors: Anani Lotsi and Ernst Wit.
- gplm** Generalized partial linear models (GPLM). Author: Marlene Mueller.
- grnn** General regression neural network. Author: Pierre-Olivier Chasset.
- gsg** Calculation of selection coefficients. Authors: Michael Morrissey, Krzysztof Sakrejda.
- gte** Generalized Turnbull's estimator. Authors: Mohammad Hossein Dehghan, Thierry Duchesne and Sophie Baillargeon.
- hSDM** Hierarchical Bayesian species distribution models. Authors: Ghislain Vieilledent, Andrew M. Latimer, Alan E. Gelfand, Cory Merow, Adam M. Wilson, Frederic Mortier and John A. Silander Jr.
- hashFunction** A collection of non-cryptographic hash functions. Author: Xiaowei Zhan.
- hcc** Hidden correlation check. Authors: Yun Shi and A. I. McLeod.
- heatex** Heat exchange calculations during physical activity. Author: Kerry Atkins.
- het.test** White's Test for Heteroskedasticity. Author: Sebastian Andersson.
- hht** The Hilbert-Huang Transform: Tools and Methods. Author: Daniel Bowman [aut, cre].
- highfrequency** Authors: Jonathan Cornelissen, Kris Boudt, Scott Payseur. In view: *Finance*.
- highriskzone** Determining and evaluating high-risk zones. Authors: Heidi Seibold, Monia Mahling.
- hint** Tools for hypothesis testing based on Hypergeometric Intersection distributions. Author: Alex T. Kalinka.
- hsicCCA** Canonical Correlation Analysis based on Kernel Independence Measures. Author: Billy Chang.
- httpuv** HTTP and WebSocket server library. Authors: RStudio, Inc.
- iWeigReg** Improved methods for causal inference and missing data problems. Authors: Zhiqiang Tan and Heng Shu.
- ibd** Incomplete Block Designs. Author: Baidya Nath Mandal.
- inflection** Finds the inflection point of a curve. Author: Demetris T. Christopoulos.

- installr** Functions for updating and installing a new version of R and other software from R. Author: Tal Galili.
- jaatha** A Fast Parameter Estimation Method for Evolutionary Biology. Authors: Lisha Mathew, Paul R. Staab and Dirk Metzler.
- jackknifeKME** Jackknife estimates of Kaplan-Meier estimators or integrals. Authors: Hasinur Rahaman Khan and Ewart Shaw. In view: *Survival*.
- kdetrees** Nonparametric method for identifying discordant trees. Authors: Grady Weyenberg and Peter Huggins.
- kernelFactory** Kernel Factory: An ensemble of kernel Machines. Authors: Michel Ballings, Dirk Van den Poel.
- kolmim** An improved evaluation of Kolmogorov's distribution. Author: Luis Carvalho.
- lazyData** A LazyData Facility. Author: Bill Venables.
- lbiasurv** Length-biased correction to survival curve estimation. Authors: Pierre-Jerome Bergeron and Vahid Partovi Nia. In view: *Survival*.
- lfstat** Calculates Low Flow Statistics for daily stream flow data. Author: Daniel Koffler.
- lisrelToR** Import output from LISREL into R. Author: Sacha Epskamp.
- llama** Leveraging Learning to Automatically Manage Algorithms. Authors: Lars Kotthoff, contributions by Barry Hurley.
- lmeNB** Fit negative binomial mixed-effect regression model. Authors: Zhao, Y. and Kondo, Y.
- lmeNBBayes** Sample from the posterior of the negative binomial mixed-effect regression model. The random effect is modeled with DP mixture of beta distributions. Author: Yumi Kondo.
- lmerTest** Tests for random and fixed effects for linear mixed effect models (lmer objects of **lme4** package). Authors: Alexandra Kuznetsova, Per Bruun Brockhoff, Rune Haubo Bojesen Christensen.
- localgauss** Estimating local Gaussian parameters. Author: Tore Selland Kleppe.
- logistiX** Exact logistic regression including Firth correction. Authors: Georg Heinze and Tobias Ladner.
- longCatEDA** Plotting Categorical Longitudinal and Time-Series Data. Author: Stephen Tueller.
- ltmle** Longitudinal Targeted Maximum Likelihood Estimation. Authors: Joshua Schwab, Maya Petersen, and Mark van der Laan, with contributions from Susan Gruber.
- madsim** A Flexible Microarray Data Simulation Model. Author: Doulaye Dembele.
- margie** Log Marginal Likelihood of Gaussian Mixture. Authors: Elisa Loza [aut, cre], David Phillips [aut, com].
- marked** R Code for mark-recapture analysis. Authors: Jeff Laake, Devin Johnson, Paul Conn.
- marmap** Import, plot and analyze bathymetric and topographic data. Authors: Eric Pante and Benoit Simon-Bouhet.
- matie** Measuring Association and Testing Independence Efficiently. Authors: Ben Murrell, Dan Murrell & Hugh Murrell.

- mcIRT** IRT models for multiple choice items (mcIRT). Author: Manuel Reif. In view: *Psychometrics*.
- mchof** multicore higher-order functions. Author: Ryan Grannell. In view: *HighPerformanceComputing*.
- medSTC** A max-margin supervised Sparse Topical Coding Model. Authors: Jun Zhu, Aykut FIRAT.
- melody** Statistical Methods for the Quantitative Analysis of Song Spectrograms. Author: Dave Schruth.
- metabolomics** A collection of functions for analysing metabolomics data. Authors: Alysha M De Livera and Jairus B Bowne.
- metacom** Analysis of the ‘elements of metacommunity structure’. Author: Tad Dallas. In view: *Environmetrics*.
- metagen** Generalised Inference in the Random Effects Meta Regression Model. Author: Thomas Friedrich. In view: *MetaAnalysis*.
- meteogRam** Tools for plotting meteograms. Author: Bogdan Bochenek.
- micromap** Linked Micromap Plots. Authors: Quinn Payton and Tony Olsen with contributions from Marc Weber, Michael McManus, and Tom Kincaid. In view: *Spatial*.
- miscF** Miscellaneous Functions. Author: Dai Feng.
- mistral** Methods in Structural Reliability. Authors: Vincent Moutoussamy, Nicolas Bousquet and Bertrand Iooss.
- mixture** Mixture Models for Clustering and Classification. Authors: Ryan P. Browne and Paul D. McNicholas.
- mlearning** Machine learning algorithms with unified interface and confusion matrices. Author: Ph. Grosjean & K. Denis.
- modisccloud** R tools for processing Level 2 Cloud Mask products from MODIS. Authors: Nicholas J. Matzke, Dept. of Integrative Biology, U.C. Berkeley.
- move** Visualizing and analyzing animal track data. Authors: Bart Kranstauber, Marco Smolla.
- msarc** Draws diagrams (mis)representing the results of mass spec experiments. Authors: Gord Brown, Hisham Mohammed.
- msgl** High dimensional multiclass classification using sparse group lasso. Authors: Martin Vincent (Sparse group lasso), Conrad Sanderson (Armadillo), Jaakko Jarvi (Boost Tuple) and Jens Maurer (Boost Random).
- msgpackR** A library to serialize or unserialize data in MessagePack format. Author: Mikiya Tanizawa.
- msme** Functions and Datasets for “Methods of Statistical Model Estimation”. Authors: Joseph Hilbe and Andrew Robinson.
- multilevelPSA** Multilevel Propensity Score Analysis. Author: Jason Bryer.
- mvinfluence** Influence Measures and Diagnostic Plots for Multivariate Linear Models. Author: Michael Friendly.
- nCDunnnett** Noncentral Dunnnett’s test distribution. Authors: Siomara Cristina Broch, Daniel Furtado Ferreira.
- nCal** Nonlinear Calibration. Authors: Youyi Fong, Krisztian Sebestyen.

- ncbit** Retrieve and build NCBI taxonomic data. Author: Jon Eastman.
- nephro** Biostatistics utilities for nephrology. Author: Cristian Pattaro.
- nets** Network Estimation for Time Series. Author: Christian Brownlees. In view: *TimeSeries*.
- networkTomography** Tools for network tomography. Authors: Alexander W Blocker, Paul Koullick, Edoardo Airolidi.
- neuroblastoma** Author: Toby Dylan Hocking.
- nloptwrap** Wrapper for Package **nloptr**. Author: Hans W Borchers.
- nordklimdata1** Dataset for climate analysis with data from the Nordic region. Authors: Heikki Tuomenvirta [aut], Achim Drebs [aut], Eirik Forland [aut], Ole Einar Tveito [aut], Hans Alexandersson [aut], Ellen Vaarby Laursen [aut], Trausti Jonsson [aut], Jose' Gama [cre].
- nose** Author: originally written by Subbiah M, packaged by Sumathi R with considerable contributions by Srinivasan M R.
- noweb** Noweb system for R. Author: Terry Therneau.
- nsprcomp** Non-Negative Sparse PCA. Authors: Sigg Christian [aut, cre], R Core team [aut].
- nutshell.audioscrobber** Audioscrobber data for "R in a Nutshell". Author: Joseph Adler.
- nutshell.bbdb** Baseball Database for "R in a Nutshell". Author: Joseph Adler.
- optAUC** Optimal Combinations of Diagnostic Tests Based on AUC. Authors: Xin Huang, Gengsheng Qin, Yixin Fang.
- outbreaker** Bayesian inference of outbreak dynamics based on epidemiological and genetic information. Authors: Thibaut Jombart, Anne Cori, Xavier Didelot, Simon Cauchemez, Christophe Fraser, Neil Ferguson.
- overlap** Estimates of coefficient of overlapping for animal activity patterns. Authors: Mike Meredith and Martin Ridout.
- packHV** A few useful functions for statisticians. Author: Hugo Varet.
- pairwise** Rasch Model Parameters by Pairwise Algorithm. Author: Joerg-Henrik Heine.
- parallelize.dynamic** Automate parallelization of function calls by means of dynamic code analysis. Author: Stefan Boehringer.
- parma** Portfolio Allocation and Risk Management Applications. Author: Alexios Ghalanos. In view: *Finance*.
- partDSA** Partitioning using deletion, substitution, and addition moves. Authors: Annette Molinaro, Karen Lostritto, Gregory Ryslik, Steve Weston. In view: *HighPerformance-Computing*.
- partialOR** Partial Odds Ratio. Authors: Vaclav Fidler and Nico Nagelkerke.
- pass** Prediction and Stability Selection of Tuning Parameters. Authors: Yixin Fang, Wei Sun, Junhui Wang.
- patchDVI** Patch '.dvi' files. Author: Duncan Murdoch.
- patchPlot** Scatterplots of image patches. Author: Pierrick Bruneau.
- pavo** Perceptual analysis, visualization and organization of spectral color data in R. Authors: Rafael Maia [aut, cre], Chad Eliason [aut], Pierre-Paul Bitton [aut].

- pbddemo** Programming with Big Data – Demonstrations of pbd Packages. Authors: Drew Schmidt [aut, cre], Wei-Chen Chen [aut], George Ostrouchov [aut], Pragneshkumar Patel [aut]. In view: *HighPerformanceComputing*.
- pbdNCDF4** Programming with Big Data – Interface to Parallel Unidata NetCDF4 Format Data Files. Authors: Pragneshkumar Patel [aut, cre], George Ostrouchov [aut], Wei-Chen Chen [aut], Drew Schmidt [aut], David Pierce [aut]. In views: *HighPerformanceComputing*, *SpatioTemporal*.
- pca3d** Three dimensional PCA plots. Author: January Weiner.
- pcrsim** Simulation of the forensic DNA process. Author: Oskar Hansson.
- pearson7** Maximum Likelihood Inference for the Pearson VII Distribution with Shape Parameter 3/2. Author: John Hughes.
- perARMA** Periodic Time Series Analysis. Authors: Anna Dudek, Harry Hurd and Wioletta Wojtowicz. In view: *TimeSeries*.
- permGPU** Using GPUs in Statistical Genomics. Authors: Ivo D. Shterev, Sin-Ho Jung, Stephen L. George and Kouros Owzar. In view: *HighPerformanceComputing*.
- persiandictionary** English to Persian dictionary. Authors: Sadegh Rasoulinejad (R package and database version of the dictionary) Manouchehr Aryanpour (for the original dictionary).
- pfa** Estimates False Discovery Proportion Under Arbitrary Covariance Dependence. Authors: Jianqing Fan, Tracy Ke, Sydney Li and Lucy Xia.
- phenex** Auxiliary functions for phenological data analysis. Authors: Lange, Maximilian and Doktor, Daniel.
- phtt** Panel Data Analysis with Heterogeneous Time Trends. Authors: Oualid Bada, Dominik Liebl.
- phylolm** Phylogenetic Linear Regression. Authors: Lam Si Tung Ho, Cecile Ane.
- pitchRx** Tools for Collecting and Visualizing Major League Baseball PITCHf/x Data. Author: Carson Sievert.
- plfm** Probabilistic latent feature analysis of two-way two-mode frequency data. Author: Michel Meulders.
- pmmlTransformations** Transform input data from a PMML perspective. Author: Tridivesh Jena.
- pnn** Probabilistic neural networks. Author: Pierre-Olivier Chasset.
- pocrm** Dose-finding in drug combination Phase I trials using the partial order continual reassessment method (PO-CRM). Author: Nolan A. Wages.
- polyCub** Cubature over Polygonal Domains. Authors: Sebastian Meyer [aut, cre, trl], Michael Hoehle [ths].
- pom** Patch Occupancy Models. Authors: Fawn Hornsby, Ryan Nielson, and Trent McDonald (www.west-inc.com).
- popgraph** Construct and manipulate population graphs. Author: Rodney J. Dyer.
- poppr** Genetic analysis of populations with mixed reproduction. Authors: Zhian N. Kamvar, Javier F. Tabima, Niklaus J. Grunwald.
- probsvm** Class probability estimation for Support Vector Machines. Authors: Chong Zhang, Seung Jun Shin, Junhui Wang, Yichao Wu, Hao Helen Zhang, and Yufeng Liu.

- proteomicdesign** Optimization of a multi-stage proteomic study. Author: Irene SL Zeng.
- psbcGroup** Penalized semi-parametric Bayesian Cox (PSBC) models with shrinkage and grouping priors. Authors: Kyu Ha Lee, Sounak Chakraborty, (Tony) Jianguo Sun.
- psd** Adaptive, sine-multitaper power spectral density estimation. Authors: Robert L. Parker and Andrew J. Barbour.
- qdap** Bridging the gap between qualitative data and quantitative analysis. Author: Tyler Rinker. In view: *NaturalLanguageProcessing*.
- quantregGrowth** Growth charts via regression quantiles. Author: Vito M. R. Muggeo.
- questionr** Functions to make surveys processing easier. Authors: Julien Barnier, François Briatte.
- rCMA** CMA-ES R-to-Java interface. Author: Wolfgang Konen.
- rCarto** Build maps with a full cartographic layout. Author: Timothee Giraud.
- rGammaGamma** Gamma convolutions for methylation array background correction. Author: Tim Triche, Jr.
- rHadoopClient** hadoop client interface for R. Author: Yohei Sato.
- rPython** Allows R to call Python. Author: Carlos J. Gil Bellosta.
- randomGLM** Random General Linear Model Prediction. Authors: Lin Song, Peter Langfelder.
- rattle** Graphical user interface for data mining in R. Authors: Graham Williams [aut, cph, cre], Mark Vere Culp [cph], Ed Cox [ctb], Anthony Nolan [ctb], Denis White [cph], Daniele Medri [ctb], Akbar Waljee [ctb] (OOB AUC for Random Forest). In view: *MachineLearning*.
- rawFasta** Memory efficient handling of FASTA sequence files, a pure R implementation. Author: Sylvain Mareschal.
- rbefdata** BEFdata R package. Authors: Claas-Thido Pfaff, Karin Nadrowski.
- readMETEO** Weather Data Download from www.meteogalicia.com. Author: Dominic Roye.
- recluster** Solving biasing produced by tied values in cluster analysis. Authors: Leonardo Dapporto, Matteo Ramazzotti, Simone Fattorini, Roger Vila, Gerard Talavera, Roger H.L. Dennis.
- refGenome** Managing data from reference genomes (UCSC, ensembl). Author: Wolfgang Kaisers.
- relaxnet** Relaxation of glmnet models (as in relaxed lasso, Meinshausen 2007). Authors: Stephan Ritter, Alan Hubbard.
- repmis** A collection of miscellaneous tools for reproducible research with R. Author: Christopher Gandrud.
- reports** Assist in the workflow of writing academic articles and other reports. Author: Tyler Rinker.
- restorepoint** Debugging with restore points. Author: Sebastian Kranz.
- rexpokit** R wrappers for EXPOKIT; other matrix functions. Authors: Nicholas J. Matzke [aut, cre, cph], Roger B. Sidje [aut, cph].
- rforensicbatwing** BATWING for calculating forensic trace-suspect match probabilities. Authors: Mikkel Meyer Andersen and Ian J. Wilson.

- ringbuffer** Ring buffer (circular buffer) data structure. Author: Allen Day.
- rlme** Random Effects Nested Models. Authors: Yusuf Bilgic and Herb Susmann.
- rmgarch** Multivariate GARCH models. Author: Alexios Ghalanos. In view: *Finance*.
- rmp** Rounded Mixture Package. Performs probability mass function estimation with Dirichlet process mixtures of rounded kernels. Authors: C code by A. Canale and N. Lunn, port and R code by A. Canale.
- rms.gof** Root-mean-square goodness-of-fit test for simple null hypothesis. Author: Shubhdeep Mukherji.
- robustlmm** Robust Linear Mixed Effects Models. Author: Manuel Koller. In view: *Robust*.
- roxyPackage** Utilities to automate package builds. Author: m.eik michalke.
- royston** Royston's H Test: Multivariate Normality Test. Author: Selcuk Korkmaz.
- rspear** Calculate SPEARpesticide in R (<http://www.systemecology.eu/SPEAR/index.php>). Author: Eduard Szoecs.
- rtop** Interpolation of data with variable spatial support. Author: Jon Olav Skoien.
- sae** Small Area Estimation. Authors: Isabel Molina, Yolanda Marhuenda.
- sanon** Stratified Analysis with Nonparametric covariable adjustment. Author: Atsushi Kawaguchi.
- schoRsCh** Tools for analyzing factorial experiments. Authors: Roland Pfister, Markus Janczyk.
- scidb** An R interface to SciDB. Authors: Paradigm4, B. W. Lewis.
- seeg** Statistics for Environmental Sciences, Engineering, and Geography. Author: Miguel F. Acevedo.
- semPlot** Path diagrams and visual analysis of various SEM packages' output. Author: Sacha Epskamp.
- semisupKernelPCA** Kernel PCA projection, and semi-supervised variant. Author: Pierrick Bruneau.
- seqPERM** Generates a permutation matrix based upon a sequence. Author: Eric Golinko.
- seqminer** Efficiently Read Sequencing Data (VCF format, METAL format) into R. Authors: Xiaowei Zhan and Dajiang Liu, with contributions of Jean-loup Gailly and Mark Adler (zlib), Julian Seward (bzip2) and Heng Li (tabix).
- sequences** Generic and biological sequences. Authors: Laurent Gatto and Robert Stojnic.
- severity** Mayo's Post-data Severity Evaluation. Author: Nicole Mee-Hyaang Jinn.
- sgof** Multiple hypotheses testing. Authors: Irene Castro Conde and Jacobo de Una Alvarez.
- sgR** Sample Generation by Replacement. Author: Massimiliano Pastore & Luigi Lombardi.
- shiny** Web Application Framework for R. Authors: RStudio, Inc.
- shrink** Global, Parameterwise, and Joint Shrinkage of Regression Coefficients. Authors: Daniela Dunkler, Georg Heinze.
- sidier** Substitution and Indel Distances to Infer Evolutionary Relationships. Author: A.J. Munoz-Pajares.

- skatMeta** Efficient meta analysis for the SKAT test. Authors: Arend Voorman, Jennifer Brody, Thomas Lumley. In view: *MetaAnalysis*.
- sltl** Time Series Decomposition using Loess and Harmonic Regression. Authors: Hyukjun Gweon and A.I. McLeod.
- smdata** Data to accompany Smithson & Merkle, 2014. Authors: Ed Merkle and Michael Smithson.
- smdc** Document Similarity. Author: Masaaki Takada.
- smoothHR** Smooth Hazard Ratio Curves taking a Reference Value. Authors: Artur Agostinho Araujo and Luis Meira-Machado.
- snpEnrichment** SNPs enrichment analysis. Authors: Mickael Canouil [aut, cre], Loic Yengo [ctb].
- snpStatsWriter** Flexible writing of snpStats objects to flat files. Author: Chris Wallace.
- softImpute** Matrix completion via iterative soft-thresholded SVD. Authors: Trevor Hastie and Rahul Mazumder.
- source.gist** Read R code from a GitHub Gist. Author: Mason Simon.
- spacejam** Sparse conditional graph estimation with joint additive models. Author: Arend Voorman.
- sparsediscrim** Sparse Discriminant Analysis. Author: John A. Ramey.
- spate** Spatio-temporal modeling of large data using a spectral SPDE approach. Authors: Fabio Sigrist, Hans R. Kuensch, Werner A. Stahel. In view: *SpatioTemporal*.
- spatial.tools** R functions for working with spatial data. Author: Jonathan Asher Greenberg.
- specificity** Specificity of personality trait-outcome associations. Authors: Kenn Konstabel, Rene Mottus.
- speedRlibTF** speedR's table filter library. Author: Ilhami Visne.
- sprsmld** Sparse modeling toolkit. Author: Hiroshi Saito.
- sqlshare** API for access to SQLShare database. Author: Andrew White.
- sqlutils** Utilities for working with SQL files. Author: Jason Bryer.
- stacomirtools** stacomir ODBC connection class. Author: Cedric Briand.
- statnet.common** Common R Scripts and Utilities Used by the Statnet Project Software. Author: Pavel N. Krivitsky [aut, cre].
- stochvol** Efficient Bayesian Inference for Stochastic Volatility (SV) Models. Author: Gregor Kastner. In views: *Bayesian*, *Finance*, *TimeSeries*.
- stream** Infrastructure for Data Stream Mining. Authors: Matthew Bolanos, John Forrest, Michael Hahsler.
- streamR** Access to Twitter Streaming API via R. Author: Pablo Barbera.
- stringdist** String distance functions for R. Author: Mark van der Loo.
- structSSI** Multiple Testing for Hypotheses with Hierarchical or Group Structure. Author: Kris Sankaran.
- strvalidator** Internal validation of forensic STR kits made easy with strvalidator. Author: Oskar Hansson.

- subtype** Cluster analysis to find molecular subtypes and their assessment. Authors: Andrey Alexeyenko, Woojoo Lee and Yudi Pawitan.
- superbiclust** Generating Robust Biclusters from a Bicluster Set (Ensemble Biclustering). Author: Tatsiana Khamiakova.
- support.BWS** Basic functions for supporting an implementation of best-worst scaling. Author: Hideo Aizaki.
- surface** Fitting Hansen Models to Investigate Convergent Evolution. Author: Travis Ingram.
- survMisc** Miscellaneous functions for survival data. Author: Chris Dardis.
- survexp.fr** Relative survival, AER and SMR based on French death rates. Authors: Jean-Philippe Jais and Hugo Varet. In view: *Survival*.
- surveydata** Tools to manipulate survey data. Author: Andrie de Vries.
- svDialogstcltk** SciViews GUI API — Dialog boxes using Tcl/Tk. Author: Philippe Grosjean.
- tagcloud** Tag Clouds. Author: January Weiner.
- taxize** Taxonomic information from around the web. Authors: Scott Chamberlain [aut, cre], Eduard Szoecs [aut], Carl Boettiger [aut], Ignasi Bartomeus [aut].
- tergm** Fit, Simulate and Diagnose Models for Network Evolution based on Exponential-Family Random Graph Models. Authors: Pavel N. Krivitsky [aut, cre], Mark S. Handcock [aut, ths], David R. Hunter [ctb], Steven M. Goodreau [ctb, ths], Martina Morris [ctb, ths], Nicole Bohme Carnegie [ctb], Carter T. Butts [ctb], Ayn Leslie-Cook [ctb].
- threg** Threshold Regression. Author: Tao Xiao.
- timeit** Easy profiling of R functions. Author: Kevin Ushey.
- timeline** Timelines for a Grammar of Graphics. Author: Jason Bryer.
- tipom** Automated measure-based classification for lithic tools. Authors: Stefano Costa [aut, cre], Luca Bianconi [aut], Elisabetta Starnini [ctb].
- tm.plugin.webmining** Retrieve structured, textual data from various web sources. Author: Mario Annau [aut, cre].
- trioGxE** A data smoothing approach to explore and test gene-environment interaction in case-parent trio data. Authors: Ji-Hyung Shin, Brad McNeney, Jinko Graham.
- trueskill** Implementation the TrueSkill algorithm in R. Author: Brendan Houngh.
- tsbugs** Create time series BUGS models. Author: Guy J. Abel. In view: *TimeSeries*.
- tspmeta** Instance feature calculation and evolutionary instance generation for the traveling salesman problem. Authors: Bernd Bischl, Jakob Bossek, Olaf Mersmann.
- tth** TeX to HTML/MathML Translators tth/ttm. Authors: Ian H. Hutchinson [aut] (author of tth/ttm C sources), Friedrich Leisch [aut, cre] (author of R wrappers to tth/ttm), Achim Zeileis [aut] (author of R wrappers to tth/ttm).
- twostageTE** Two-Stage Threshold Estimation. Authors: Shawn Mankad, George Michailidis, Moulinath Banerjee.
- usl** Analyze system scalability with the Universal Scalability Law. Authors: Neil J. Gunther [aut], Stefan Moeding [aut, cre].
- visualize** Graph Probability Distributions with User Supplied Parameters and Stats. Author: James Balamuta.

vitality vitality: Fitting routines for the Vitality family of mortality models. Authors: Gregor Passolt, James J. Anderson, Ting Li, David H. Salinger.

wethepeople An R client for interacting with the White House's "We The People" petition API. Author: Yoni Ben-Meshulam.

witness Fits eyewitness data using Clark's (2003) WITNESS model. Author: Dustin Fife.

wpp2008 World Population Prospects 2008. Authors: Hana Sevcikova, Patrick Gerland.

wpp2010 World Population Prospects 2010. Authors: Hana Sevcikova, Patrick Gerland.

xkcd Plotting ggplot2 graphics in a XKCD style. Author: Emilio Torres Manzanera.

yhatr R binder for the Yhat API. Author: Greg Lamp.

zooimage Analysis of numerical zooplankton images. Authors: Ph. Grosjean, K. Denis & R. Francois.

Other changes

- The following packages were moved to the Archive: **AGSDest**, **AMA**, **BADER**, **BAMD**, **BAYSTAR**, **BPHO**, **BootPR**, **CADStat**, **CAVIAR**, **CarbonEL**, **CompModSA**, **ExPD2D**, **GAMens**, **GDD**, **ImageMetrics**, **LDdiag**, **LN3GV**, **MAMSE**, **MISA**, **MMS**, **MSToolkit**, **McSpatial**, **Metabonomic**, **MethComp**, **MixMod**, **NADA**, **NMMAP-Slite**, **NeMo**, **PHYLOGR**, **PSCN**, **PrecipStat**, **QTLNetworkR**, **R4dfr**, **RDF**, **RMediation**, **RTAQ**, **RandForestGUI**, **Rchemcpp**, **Rclusterpp**, **RcmdrPlugin.Export**, **RcmdrPlugin.FactoMineR**, **RcmdrPlugin.MAC**, **RcmdrPlugin.MAD**, **RcmdrPlugin.PT**, **RcmdrPlugin.TextMining**, **RcmdrPlugin.depthTools**, **RcmdrPlugin.pointG**, **RcmdrPlugin.sos**, **RcmdrPlugin.steeptness**, **ReadImages**, **Rigroup**, **Rlof**, **RpgSQL**, **Rsge**, **Sim.DiffProc**, **Sim.DiffProcGUI**, **Simile**, **SpectralGEM**, **StatFingerprints**, **TSpadi**, **TreePar**, **VBMA4hmm**, **WMBrukerParser**, **XLConnectJars**, **YourCast**, **anchors**, **aratio**, **ares**, **assist**, **bayespack**, **betfairly**, **bise**, **biseVec**, **boolean**, **bujar**, **cMonkey**, **calibFit**, **canvas**, **caspar**, **ccems**, **cems**, **clim.pact**, **cloudRmpi**, **cloudRmpiJars**, **cmprskContin**, **cond**, **csampling**, **cyclones**, **dataframe**, **delftfews**, **delt**, **denpro**, **diff**, **diger**, **dynGraph**, **dynamo**, **emu**, **emudata**, **epsi**, **esd4all**, **fairselect**, **fdim**, **filterviewR**, **finebalance**, **fractal**, **gcolor**, **gearman**, **genomatic**, **graphComp**, **hdf5**, **helpr**, **highlight**, **iDEMO**, **iGenomicViewer**, **iid.test**, **integrativeME**, **kBestShortestPaths**, **laser**, **lazy**, **lmeSplines**, **marg**, **maxLinear**, **mcpd**, **medAdherence**, **mht**, **mixer**, **mmeta**, **mnspec**, **motmot**, **mpc**, **mprobit**, **mspath**, **nFDR**, **nlreg**, **nltm**, **nlts**, **npst**, **odesolve**, **paloma**, **pamctdp**, **parser**, **pcurve**, **pfda**, **phitest**, **phull**, **pmc**, **polydect**, **predbayescore**, **proptest**, **qqplotter**, **rPorta**, **rconifers**, **realized**, **replicationDemos**, **ritis**, **rpartOrdinal**, **rqmcmb2**, **rreval**, **rv**, **rvmbinary**, **s3x**, **sampling**, **sculpt3d**, **sentiment**, **simone**, **sound**, **speedR**, **speedRlibTF**, **splinesurv**, **sspline**, **steeptness**, **sudokuplus**, **surv2sample**, **tabplotGTK**, **taskPR**, **tsModel**, **two.stage.boot**, **unknownR**, **xlsReadWrite**
- The following packages were resurrected from the Archive: **ArDec**, **Bhat**, **Biograph**, **CONOR**, **DCluster**, **EMT**, **ForImp**, **GWAToolbox**, **MFDA**, **NMF**, **PairedData**, **SpatialEpi**, **bdoc**, **brainwaver**, **bspec**, **bwsurvival**, **covRobust**, **crawl**, **crossdes**, **cwhmisc**, **cyphid**, **formula.tools**, **fptdApprox**, **fso**, **hsmm**, **iteRates**, **labeltodendro**, **maticce**, **networksis**, **nricens**, **onemap**, **operator.tools**, **optpart**, **orderbook**, **partitionMap**, **pass**, **seas**, **snowfall**, **support.BWS**, **surveillance**, **tipom**, **trueskill**, **truncgof**
- The following packages had to be removed: **RExcelInstaller**, **RthroughExcelWorkbooksInstaller**, **SWordInstaller**, **auteur**, **rcom**, **wvioplot**