Changes on CRAN

2013-05-26 to 2013-11-30

by Kurt Hornik and Achim Zeileis

New CRAN task views

NumericalMathematics Topic: Numerical Mathematics. Maintainer: Hans W. Borchers. Packages: **BB**, **Bessel**, **MASS**, **Matrix***, **MonoPoly**, **PolynomF**, **R.matlab**, **R2Cuba**, **Rcpp**, **RcppArmadillo**, **RcppEigen**, **RcppOctave**, **Rmpfr**, **Ryacas**, **SparseGrid**, **SphericalCubature**, **akima**, **appell**, **combinat**, **contfrac**, **cubature**, **eigeninv**, **elliptic**, **expm**, **features**, **gaussquad**, **gmp**, **gsl***, **hypergeo**, **irlba**, **magic**, **matlab**, **mpoly**, **multipol**, **nleqslv**, **numDeriv***, **numbers**, **onion**, **orthopolynom**, **partitions**, **pcenum**, **polyCub**, **polynom***, **pracma**, **rPython**, **rSymPy**, **signal**, **ssvd**, **statmod**, **stinepack**, **svd**.

WebTechnologies Topic: Web Technologies and Services. Maintainer: Scott Chamberlain, Karthik Ram, Christopher Gandrud, Patrick Mair. Packages: **AWS.tools**, **CHCN**, **FAOSTAT**, **GuardianR**, **MTurkR**, **NCBI2R**, **OAIHarvester**, **Quandl**, **RCurl***, **RJSONIO***, **RLastFM**, **RMendeley**, **RNCBI**, **RNCEP**, **ROAuth**, **RSiteCatalyst**, **RSocrata**, **RTDAmeritrade**, **RWeather**, **Rcolombos**, **Reol**, **Rfacebook**, **RgoogleMaps**, **Rook**, **SynergizeR**, **TFX**, **WDI**, **XML***, **alm**, **anametrix**, **bigml**, **cgdsr**, **cimis**, **crn**, **datamart**, **dataone**, **decctools**, **dismo**, **dvn**, **fImport**, **factualR**, **flora**, **ggmap**, **gooJSON**, **googlePublicData**, **googleVis**, **govStatJPN**, **govdat**, **httpuv**, **httr***, **imguR**, **ngramr**, **nhlscrapr**, **opencpu**, **osmar**, **pitchRx**, **plotGoogleMaps**, **plotKML**, **quantmod**, **rAltmetric**, **rPlant**, **rdatamarket**, **rebird**, **rentrez**, **repmis**, **rfigshare**, **rfishbase**, **rfisheries**, **rgauges**, **rgbif**, **rjson***, **rplos**, **rpubchem**, **rsnps**, **rvertnet**, **scholar**, **scrapeR**, **selectr**, **seq2R**, **seqinr**, **servr**, **shiny***, **sos4R**, **streamR**, **taxize**, **translate**, **treebase**, **twitteR**, **waterData**, **wethepeople**, **yhatr**, **zendeskR**.

(* = core package)

New packages in CRAN task views

Bayesian **BSquare**, **FME**, **prevalence**.

ChemPhys **BioMark**, **SCEPtER**, **SCEPtERextras**, **celestial**, **prospectr**.

Cluster **Funclustering**, **bayesMCClust**, **mixture**.

DifferentialEquations **adaptivetau**.

Distributions **CompLognormal**, **HistogramTools**, **NormalGamma**, **flexsurv**, **mbbefd**, **msm**, **sparseMVN**.

Econometrics **crch**, **midasr**, **pwt8**.

Environmetrics **quantregGrowth**, **rtop**.

Finance **BenfordTests**, **LSMonteCarlo**, **OptHedging**, **RND**, **SmithWilsonYieldCurve**, **markovchain**.

HighPerformanceComputing **HistogramTools**, **MonetDB.R**, **RProtoBuf**, **RhpcBLASctl**, **pbdPROF**, **pls**.

MachineLearning **RXshrink**, **bigRR**, **bmrm**.

MedicalImaging **gdimap***.

MetaAnalysis **CAMAN**, **MetaSKAT**, **PubBias**, **dosresmeta**, **exactmeta**, **netmeta**, **seqMeta**.

NaturalLanguageProcessing **lda**, **movMF**, **skmeans**.

OfficialStatistics **SAScii**.

Phylogenetics **DDD**, **convevol**, **corHMM**, **evobiR**, **metafor**, **phylolm**.

Psychometrics **ExPosition**, **ICC**, **MCMCglmm**, **TAM***, **cocor**, **cocron**, **equateIRT**, **irtProb**, **mediation**, **multiplex**, **nlme**, **ordinal**, **semPlot**, **sirt**.

ReproducibleResearch **installr**.

Robust **RSKC**.

Spatial **CARBayes**, **GWmodel**, **Grid2Polygons**, **McSpatial**, **SSN**, **SpatialEpi**, **SpatialTools**, **dbmss**, **georob**, **gstudio**, **gwrr**, **ngspatial**, **plotGoogleMaps**, **rlandscape**, **rtop**, **rworldxtra**, **spTimer**, **spatial.tools**, **splm**, **taRifx**.

SpatioTemporal **BBMM**, **animalTrack**, **bcpa**, **crawl**, **move**, **smam**.

TimeSeries **ArDec**, **FeedbackTS**, **SDD**, **SparseTSCGM**, **StVAR**, **TSclust**, **Tides**, **midasr**, **nlts**, **nonlinearTseries**, **portes**, **psd**, **rmgarch**, **rugarch**, **sltl**, **spTimer**, **sspir**, **timesboot**, **tsModel**.

(* = core package)

New contributed packages

ABCoptim Implementation of Artificial Bee Colony (ABC) Optimization. Authors: George Vega Yon [aut], Enyelbert Muñoz [ctb].

ACTCD Asymptotic Classification Theory for Cognitive Diagnosis. Authors: Chia-Yi Chiu and Wenchao Ma.

AFLPsim Hybrid simulation and genome scan for dominant markers. Authors: Francisco Balao [aut, cre], Juan Luis García-Castaño [aut].

ALSCPC Accelerated line search algorithm for simultaneous orthogonal transformation of several positive definite symmetric matrices to nearly diagonal form. Author: Dariush Najarzadeh.

AMGET Post-processing tool for ADAPT 5. Author: Benjamin Guiastrennec.

ARTP Gene and Pathway p-values computed using the Adaptive Rank Truncated Product. Authors: Kai Yu, Qizhai Li and William Wheeler.

AUC Threshold independent performance measures for probabilistic classifiers. Authors: Michel Ballings and Dirk Van den Poel.

AdapEnetClass A class of adaptive elastic net methods for censored data. Authors: Hasinur Rahaman Khan and Ewart Shaw.

AdaptiveSparsity Adaptive Sparsity Models. Authors: Kristen Zygmunt, Eleanor Wong, Tom Fletcher.

AnDE An extended Bayesian Learning Technique developed by Dr. Geoff Webb. Author: Sai Teja Ranuva and Nayyar Zaidi.

AppliedPredictiveModeling Functions and Data Sets for "Applied Predictive Modeling". Authors: Max Kuhn, Kjell Johnson.

BASIX An efficient C/C++ toolset for R. Author: Bastian Pfeifer.

BCDating Business Cycle Dating and Plotting Tools. Author: Majid Einian.

BCEs0 Bayesian models for cost-effectiveness analysis in the presence of structural zero costs. Author: Gianluca Baio.

BEDASSLE Disentangles the effects of geographic and ecological isolation on genetic differentiation. Author: Gideon Bradburd.

BEST Bayesian Estimation Supersedes the t-Test. Authors: John K. Kruschke and Mike Meredith.

BGLR Bayesian Generalized Linear Regression. Authors: Gustavo de los Campos, Paulino Perez Rodriguez.

BGPhazard Markov beta and gamma processes for modeling hazard rates. Authors: J. A. Garcia-Bueno and L. E. Nieto-Barajas.

BMAmevt Multivariate Extremes: Bayesian estimation of the spectral measure. Author: Anne Sabourin.

BSSasymp Asymptotic covariance matrices of some BSS mixing and unmixing matrix estimates. Authors: Jari Miettinen, Klaus Nordhausen, Hannu Oja, Sara Taskinen.

BayesCR Bayesian analysis of censored linear regression models with scale mixtures of normal (SMN) distributions. Authors: Aldo M. Garay, Victor H. Lachos.

BayesSAE Bayesian Analysis of Small Area Estimation. Authors: Chengchun Shi, with contributions from Peng Zhang.

Bayesianbetareg Bayesian Beta regression: joint mean and precision modeling. Authors: Margarita Marin and Javier Rojas and Daniel Jaimes, under the direction of Edilberto Cepeda-Cuervo and with collaboration of Martha Corrales, Maria Fernanda Zarate, Ricardo Duplat and Luis F Villarraga.

BioGeoBEARS BioGeography with Bayesian (and Likelihood) Evolutionary Analysis in R Scripts. Author: Nicholas J. Matzke [aut, cre, cph].

CALIBERrfimpute Multiple imputation using MICE and Random Forest. Author: Anoop Shah.

CARrampsOcl Reparameterized and marginalized posterior sampling for conditional autoregressive models, OpenCL implementation. Authors: Kate Cowles and Michael Seedorff and Alex Sawyer.

CCTpack Cultural Consensus Theory applications to data. Author: Royce Anders.

CIFsmry Weighted summary of cumulative incidence functions. Author: Jianing Li.

CINID Curculionidae INstar IDentification. Authors: Aurelie Siberchicot, Adrien Merville, Marie-Claude Bel-Venner and Samuel Venner.

CNVassocData Example data sets for association analysis of CNV data. Authors: Juan R González, Isaac Subirana.

CNprep Pre-process DNA copy number (CN) data for detection of CN events. Authors: Alex Krasnitz, Guoli Sun.

CORE Cores of Recurrent Events. Authors: Alex Krasnitz, Guoli Sun.

CSS Extract information from an HTML document with CSS selectors. Author: Francois Guillem.

Causata Analysis utilities for binary classification and Causata users. Authors: Justin Hemann, David Barker, Suzanne Weller, Jason McFall.

ClustVarLV Clustering of variables around Latent Variables. Authors: Evelyne Vigneau, Mingkun Chen.

Correlplot A collection of functions for graphing correlation matrices. Author: Jan Graffelman.

CovSel Model-Free Covariate Selection. Authors: Jenny Häggström, Emma Persson.

CoxRidge Cox models with dynamic ridge penalties. Author: Aris Perperoglou.

DCL Claims Reserving under the Double Chain Ladder Model. Authors: Maria Dolores Martinez-Miranda, Jens Perch Nielsen and Richard Verrall.

DIFlasso A penalty approach to Differential Item Functioning in Rasch Models. Author: Gunther Schauberger.

DSBayes Bayesian subgroup analysis in clinical trials. Authors: Ravi Varadhan and Wenliang Yao.

DTMCPack Suite of functions related to discrete-time discrete-state Markov Chains. Author: William Nicholson.

DTR Estimation and comparison of dynamic treatment regimes. Authors: Xinyu Tang and Maria Melguizo.

DiscreteWeibull Discrete Weibull distribution. Author: Alessandro Barbiero.

DistatisR DiSTATIS Three Way Metric Multidimensional Scaling. Authors: Derek Beaton [aut, com, ctb], Cherise Chin Fatt [ctb], Herve Abdi [aut, cre].

DoubleCone Test against parametric regression function. Authors: Mary C Meyer, Bodhisattva Sen.

DunnettTests Software implementation of step-down and step-up Dunnett test procedures. Author: Fan Xia.

DynamicDistribution Dynamically visualized probability distributions and their moments. Authors: Lei Zhang, Hao Jiang and Chen Xue.

EILA Efficient Inference of Local Ancestry. Authors: James J. Yang, Jia Li, Anne Buu, and L. Keoki Williams.

EMMAgeo End-member modelling algorithm and supporting functions for grain-size analysis. Authors: Michael Dietze, Elisabeth Dietze.

EMMIXskew The EM Algorithm and Skew Mixture Distribution. Authors: Kui Wang, Angus Ng and Geoff McLachlan.

EMMIXuskew Fitting Unrestricted Multivariate Skew t Mixture Models. Authors: S. X. Lee and G. J. McLachlan.

EMVC Entropy Minimization over Variable Clusters. Authors: H. Robert Frost and Jason H. Moore.

ES Edge Selection. Authors: Meng Hwee Victor Ong, Sanjay Chaudhuri.

EffectsRelBaseline Test changes of a grouped response relative to baseline. Author: Peter N. Steinmetz.

EnvNicheR Environmental niche. Author: Cástor Guisande González.

EnvStats Package for Environmental Statistics, including US EPA Guidance. Author: Steven P. Millard.

EvCombR Evidence Combination in R. Author: Alexander Karlsson.

FFied Force field simulation for a set of points. Author: Grigori Kapoustin.

FGalgorithm Flury and Gautschi algorithms. Author: Dariush Najarzadeh.

FREQ Estimate population size from capture frequencies. Authors: Annegret Grimm and Klaus Henle.

FastRCS Compute the FastRCS Algorithm. Authors: Kaveh Vakili [aut, cre].

FeedbackTS Analysis of Feedback in Time Series. Authors: Samuel Soubeyrand, Cindy E. Morris, E. Keith Bigg. In view: *TimeSeries*.

FinCal Time Value of Money, time series analysis and Computational Finance. Author: Felix Yanhui Fan.

FindMinIC Find Models with Minimum IC. Authors: Nicholas Lange, Tom Fletcher, Kristen Zygmunt.

FusedPCA Community Detection via Fused Principal Component Analysis. Authors: Yang Feng, Richard J. Samworth and Yi Yu.

GABi Framework for Generalized Subspace Pattern Mining. Author: Ed Curry.

GCD Global Charcoal Database. Author: Global Paleofire Working Group.

GDELTtools Download, slice, and normalize GDELT data. Authors: Stephen R. Haptonstahl, Thomas Scherer, Timo Thoms, and John Beieler.

GGIR Author: Vincent T van Hees.

GIGrvg Random variate generator for the GIG distribution. Authors: Josef Leydold and Wolfgang Hormann.

GPCSIV Generalized Principal Component of Symbolic Interval variables. Authors: Brahim Brahim and Sun Makosso-Kallyth.

GRTo Tools for the analysis of Gutenberg-Richter distributions of earthquake magnitudes. Authors: Daniel Amorese, Paul A. Rydelek and Jean-Robert Grasso.

GSE Robust Estimation of Multivariate Location and Scatter in the Presence of Missing Data. Authors: Mike Danilov, Andy Leung, Victor Yohai, Ruben Zamar.

GWmodel Geographically weighted models. Authors: Binbin Lu, Paul Harris, Isabella Gollini, Martin Charlton, Chris Brunsdon. In view: *Spatial*.

GetNenshuJP Get data about Japanese company. Author: Hayakawa Atsushi.

GetoptLong Parse command-line arguments. Author: Zuguang Gu.

GlobalDeviance Global Deviance Permutation Tests. Author: Frederike Fuhlbrueck.

GxM Maximum Likelihood Estimation for Gene-by-Measured Environment Interaction Models. Authors: Hao Zheng and Paul Rathouz.

HDtweedie The Lasso for the Tweedie's Compound Poisson Model Using an IRLS-BMD Algorithm. Authors: Wei Qian, Yi Yang, Hui Zou.

HEAT Health Effects of Air Pollution and Temperature. Authors: Youn-Hee Lim, Il-Sang Ohn, and Ho Kim.

HHG Heller-Heller-Gorfine Tests of Independence. Authors: Shachar Kaufman, based in part on an earlier implementation by Ruth Heller and Yair Heller.

HTSDiff Differential analysis of RNA-seq data with Poisson mixture models. Authors: Andrea Rau, Marie-Laure Martin-Magniette, Cathy Maugis-Rabusseau.

HistogramTools Utility Functions for R Histograms. Author: Murray Stokely. In views: *Distributions*, *HighPerformanceComputing*.

HotDeckImputation Hot Deck Imputation Methods for Missing Data. Author: Dieter William Joenssen.

IASD Model selection for index of asymmetry distribution. Author: Satoshi Takahashi.

IAT Functions to use with data from the Implicit Association Test. Author: Dan Martin.

ICEbox Individual Conditional Expectation Plot Toolbox. Authors: Alex Goldstein, Adam Kapelner, Justin Bleich.

INLABMA Bayesian Model Averaging with INLA. Authors: Virgilio Gomez Rubio, Roger Bivand.

ISLR Data for "An Introduction to Statistical Learning with Applications in R". Authors: Gareth James, Daniela Witten, Trevor Hastie and Rob Tibshirani.

IUPS Incorporating Uncertainties in Propensity Scores. Authors: Weihua An, Huizi Xu, and Zhida Zheng.

InPosition Inference Tests for ExPosition. Authors: Derek Beaton, Joseph Dunlop, Herve Abdi.

IntLik Numerical Integration for Integrated Likelihood. Author: Zhenyu Zhao.

InterVA4 Replicate and analyse InterVA4. Authors: Zehang LI, Tyler McCormick, Sam Clark.

JointRegBC Joint Modelling of Mixed Correlated Binary and Continuous Responses: A Latent Variable Approach. Authors: Ehsan Bahrami Samani and Zhale Tahmasebinejad.

LCA Localised Co-Dependency Analysis. Author: Ed Curry.

LICurvature Sensitivity Analysis for Case Weight in Normal Linear Regression. Authors: Ehsan Bahrami Samani and Parisa ParsaMaram.

LPmerge Merging linkage maps by linear programming. Author: Jeffrey Endelman.

LSMonteCarlo American options pricing with Least Squares Monte Carlo method. Author: Mikhail A. Beketov. In view: *Finance*.

LVMMCOR A Latent Variable Model for Mixed Continuous and Ordinal Responses. Authors: Ehsan Bahrami Samani and Nourallah Tazikeh Miyandarreh.

LogrankA Logrank Test for Aggregated Survival Data. Authors: Jonas Richter-Dumke and Roland Rau.

MASSI MicroArray Sample Sex Identifier. Author: Sam Buckberry.

MCDA Authors: Patrick Meyer, Sébastien Bigaret.

MCMC.qpcr Bayesian analysis of qRT-PCR data. Author: Mikhail V. Matz.

MConjoint Conjoint Analysis through Averaging of Multiple Analyses. Author: William Hughes.

MF Mitigated Fraction. Author: David Siev.

MFHD Multivariate Functional Halfspace Depth. Authors: M. Hubert, K. Vakili.

MGLM Multivariate Response Generalized Linear Models. Authors: Yiwen Zhang and Hua Zhou.

MLRMPA Multilinear Regression Model Population Analysis. Authors: Meihong Xie and Xiaoyun Zhang.

MODISTools MODIS Subsetting Tools. Authors: Sean Tuck, Helen Phillips.

MPINet Implements the network-based metabolite pathway identification of pathways. Authors: Yanjun Xu, Chunquan Li and Xia Li.

MPSEM Modeling Phylogenetic Signals using Eigenvector Maps. Authors: Guillaume Guenard, with contribution from Pierre Legendre.

MRCV Methods for Analyzing Multiple Response Categorical Variables. Authors: Natalie Koziol and Chris Bilder.

MRMR Multivariate Regression Models for Reserving. Author: Brian A. Fannin.

MRsurv A multiplicative-regression model for relative survival. Authors: Y. Foucher, K. Trebern-Launay.

MRwarping Multiresolution time warping for functional data. Authors: L. Slaets, G. Claeskens, B. W. Silverman.

Map2NCBI Mapping Markers to the Nearest Genomic Feature. Authors: Lauren L. Hulsman Hanna and David G. Riley.

MetSizeR GUI tool for estimating sample sizes for metabolomic experiments. Authors: Gift Nyamundanda, Isobel Claire Gormley, Yue Fan, William M Gallagher, Lorraine Brennan.

MetStaT Statistical metabolomics tools. Author: Tim Dorscheidt.

MicroDatosEs Utilities for Official Spanish Microdata. Authors: Carlos J. Gil Bellosta [aut, cre], José Luis Cañadas Reche [ctb].

MissMech Testing Homoscedasticity, Multivariate Normality, and Missing Completely at Random. Authors: Mortaza Jamshidian, Siavash Jalal, and Camden Jansen.

Myrrix Interface to Myrrix, a complete, real-time, scalable clustering and recommender system, evolved from Apache Mahout. Authors: Jan Wijffels [aut, cre].

Myrrixjars External jars required for package **Myrrix**. Authors: Jan Wijffels [aut, cre].

NAPPA Performs the processing and normalisation of Nanostring miRNA and mRNA data. Author: Mark Wappett.

NCmisc Miscellaneous general purpose functions. Author: Nicholas Cooper.

NEff Calculating effective sizes based on known demographic parameters of a population. Authors: Annegret Grimm, Bernd Gruber and Klaus Henle.

NLP Natural Language Processing Infrastructure. Author: Kurt Hornik [aut, cre].

NPMLEcmprsk Non-parametric Maximum-Likelihood Estimation for Competing-Risks Data. Authors: Chung-Hsing Chen, I-Shou Chang and Chao A. Hsiung.

NPMVCP Nonparametric Multivariate Change Point Model. Author: Mark D. Holland.

NSM3 Accompanies Hollander, Wolfe, and Chicken "Nonparametric Statistical Methods, Third Edition". Authors: Grant Schneider, Eric Chicken, Rachel Becvarik.

NetSim A Social Networks Simulation Tool in R. Author: Christoph Stadtfeld.

Newdistns Computes pdf, cdf, quantile and random numbers for 19 general families of distributions. Author: Saralees Nadarajah.

NominalLogisticBiplot Biplot representations of categorical data. Authors: Julio Cesar Hernandez Sanchez, Jose Luis Vicente-Villardon.

ODMconverter tools to convert ODM files. Author: Martin Dugas.

OpasnetUtils Utility functions for dealing with data in Opasnet (www.opasnet.org) environment. Authors: Teemu Rintala, Einari Happonen, Jouni Tuomisto.

OptHedging Estimation of value and hedging strategy of call and put options. Author: Bruno Remillard. In view: *Finance*.

OrdinalLogisticBiplot Biplot representations of ordinal variables. Authors: Julio Cesar Hernandez Sanchez, Jose Luis Vicente-Villardon.

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.

PAGWAS Pathway analysis methods for genomewide association data. Author: Marina Evangelou.

PLRModels Statistical inference in partial linear regression models. Authors: German Aneiros Perez and Ana Lopez Cheda.

PROFANCY Prioritize candidate disease metabolites based on global functional relationships between metabolites in the context of metabolic pathways. Authors: Qianlan Yao, Desi Shang, Chunquan Li.

PSAboot Bootstrapping for Propensity Score Analysis. Author: Jason Bryer.

ParDNAcopy Parallel implementation of the `segment` function of package **DNAcopy**. Authors: Alex Krasnitz, Guoli Sun.

ParentOffspring Conduct the Parent-Offspring Test Using Monomorphic SNP Markers. Authors: Pengsheng Ji, Hussein Abdel-Haleem, H. Roger Boerma and Zenglu Li.

PatternClass Class-focused pattern metric comparisons using simulation. Authors: Tarmo K. Remmel, (Marie-Josee Fortin, Ferenc Csillag, Sandor Kabos).

PedCNV An implementation for association analysis with CNV data. Authors: Meiling Liu, Sungho Won and Weicheng Zhu.

PivotalR R front-end to PostgreSQL and Pivotal (Greenplum) database, wrapper for MADlib. Authors: Predictive Analytics Team at Pivotal Inc., with contributions from Data Scientist Team at Pivotal Inc.

PoweR Computation of power and level tables for hypothesis tests. Authors: Pierre Lafaye de Micheaux, Viet Anh Tran.

PsumtSim Simulations of grouped responses relative to baseline. Author: Peter N. Steinmetz.

PubBias Performs simulation study to look for publication bias, using a technique described by Ioannidis and Trikalinos; Clin Trials, 2007;4(3):245–53. Author: Simon Thornley. In view: *MetaAnalysis*.

PubMedWordcloud PubMed Word Clouds. Author: Felix Yanhui Fan.

QCGWAS Quality Control of Genome Wide Association Study results. Authors: Peter J. van der Most and Ilja M. Nolte.

QZ Generalized Eigenvalues and QZ Decomposition. Authors: Wei-Chen Chen, partly adapted and using routines from LAPACK.

RANN Fast Nearest Neighbour Search (wraps Arya and Mount's ANN library). Authors: Sunil Arya and David Mount (for ANN), Samuel E. Kemp, Gregory Jefferis.

RCEIM R Cross Entropy Inspired Method for Optimization. Author: Alberto Krone-Martins.

RCPmod Regions of common profiles modelling with mixtures-of-experts. Author: Scott D. Foster.

RECSO Robust and Efficient Analysis using Control function approach, of a Secondary Outcome. Author: Tamar Sofer.

RGenetics Genetics research. Author: Felix Yanhui Fan.

RIGHT R Interactive Graphics via HTml. Authors: ChungHa Sung, TaeJoon Song, Jae W. Lee, and Junghoon Lee.

RImpala Authors: Austin Chungath Vincent, Sachin Sudarshana, Vikas Raguttahalli.

RInSp R Individual Specialization. Authors: Nicola Zaccarelli, Giorgio Mancinelli, and Dan Bolnick.

RND Risk Neutral Density. Author: Kam Hamidieh. In view: *Finance*.

RObsDat Store your observations: R-Interface to the Observations Data Model from QUASHI. Author: Dominik Reusser.

RSADBE Data related to the book "R Statistical Application Development by Example". Author: Prabhanjan Tattar.

RSDA R to Symbolic Data Analysis. Author: Oldemar Rodriguez R., with contributions from Johnny Villalobos M.

RSocrata Download Socrata datasets as R data frames. Author: Hugh J. Devlin. In view: *WebTechnologies*.

RStorm Simulate and Develop Streaming Processing in [R]. Author: Maurits Kaptein.

RTConnect Tools for analyzing sales report files of iTunes Connect. Author: Yusuke Miyazaki.

RVsharing Authors: Alexandre Bureau, Ingo Ruczinski, Samuel G. Younkin.

RWiener Wiener process distribution functions. Author: Dominik Wabersich.

RadOnc Analytical Tools for Radiation Oncology. Author: Reid F. Thompson.

Rambo The Random Subgraph Model. Authors: Charles Bouveyron, Yacine Jernite, Pierre Latouche, Laetitia Nouedoui.

Rankcluster Model-based clustering for multivariate partial ranking data. Author: Quentin Grimonprez.

Rbitcoin Rbitcoin integration. Author: Jan Gorecki.

RcmdrPlugin.sampling Tools for sampling in Official Statistical Surveys. Authors: Susie Jentoft and Johan Heldal.

Rcolombos Interface to Colombos Compendia using the exposed REST API. Author: Paolo Sonego. In view: *WebTechnologies*.

RcppZiggurat Rcpp integration of different Ziggurat Normal RNG implementations. Author: Dirk Eddelbuettel.

Rfacebook Access to Facebook API via R. Author: Pablo Barbera. In view: *WebTechnologies*.

RhpcBLASctl Control the number of threads on BLAS for R. Authors: Junji Nakano and Ei-ji Nakama. In view: *HighPerformanceComputing*.

RidgeFusion Ridge Fusion in Statistical Learning. Author: Bradley S. Price.

Rjpstatdb R interface of the Gateway to Advanced and User-friendly Statistics Service. Author: Kiwamu Ishikura.

RobPer Periodogram methods for irregularly sampled time series (especially light curves occurring in astroparticle physics) and periodicity detection methods. Authors: Anita M. Thieler, Jonathan Rathjens and Roland Fried, with contributions from Brenton R. Clarke, Uwe Ligges, Matias Salibian-Barrera, Gert Willems and Victor Yohai.

RockFab Rock fabric and strain analysis tools. Author: Jeffrey R. Webber.

Rpoppler PDF tools based on Poppler. Author: Kurt Hornik.

Ruchardet Author: Heewon Jeon.

SCEPtER Stellar CharactEristics Pisa Estimation gRid. Authors: Matteo Dell'Omodarme [aut, cre], Giada Valle [aut]. In view: *ChemPhys*.

SCEPtERextras Additional grids for SCEPtER. Authors: Matteo Dell'Omodarme [aut, cre], Giada Valle [aut]. In view: *ChemPhys*.

SCGLR Supervised Component Generalized Linear Regression. Authors: Mortier F., Trottier C., Cornu G., Bry X.

SEchart Authors: Rutger M. van den Bor and Willem M. van der Wal.

SIMMS Subnetwork Integration for Multi-Modal Signatures. Authors: Syed Haider, Michal Grzadkowski, Paul C. Boutros.

SINGLE Estimate sparse dynamic graphs using the Smooth Incremental Graphical Lasso Estimation (SINGLE) algorithm. Authors: Ricardo Pio Monti, Christoforos Anagnostopoulos and Giovanni Montana.

SML Statistical Machine Learning. Author: Tuo Zhao.

SOLOMON Parentage analysis. Author: Mark Christie.

SPMS Sub-Pathway Mining Software. Author: Xiaomeng Ni.

SPODT Spatial Oblique Decision Tree. Authors: Jean Gaudart, Nathalie Graffeo, Guillaume Barbet, Bernard Fichet, Roch Giorgi.

SPmlficmcm Semiparametric Maximum likelihood Method for interactions gene-environment in case-mother control-mother designs. Authors: Moliere Nguile Makao and Alexandre Bureau.

SRRS The Stepwise Response Refinement Screener (SRRS). Authors: Frederick Kin Hing Phoa and Shu-Ching Lin.

SciencesPo Tools for analyzing political behaviour data. Author: Daniel Marcelino.

ScrabbleScore Calculates Scrabble score for strings. Author: Will Kurt.

SesIndexCreatoR Computation and visualization of socioeconomic indices and categories distributions. Author: Benoit Lalloue.

SigTree Functions to determine significantly responsive branches of phylogenetic trees and produce colored plots both in FigTree (via exported file) and R. Authors: John R. Stevens and Todd R. Jones.

SimuChemPC Simulation process of 4 selection methods in predicting chemical potent compounds. Author: Mohsen Ahmadi.

SmithWilsonYieldCurve Smith-Wilson Yield Curve Construction. Author: Phil Joubert. In view: *Finance*.

StAMPP Statistical Analysis of Mixed Ploidy Populations. Author: L. W. Pembleton.

StatRank Statistical Rank Aggregation: Inference, Evaluation, and Visualization. Authors: Hossein Azari Soufiani, William Chen.

StrainRanking Ranking of pathogen strains. Authors: S. Soubeyrand, C. Tollenaere, E. Haon-Lasportes and A.-L. Laine.

StratSel Strategic Selection Estimator. Author: Lucas Leemann.

SubCultCon Maximum-Likelihood Cultural Consensus Analysis with Sub-Cultures. Authors: Mary C Meyer, Jeffrey G Snodgrass, Michael Lacy.

SynchWave Synchrosqueezed Wavelet Transform. Authors: Matlab original by Eugene Brevdo; R port by Dongik Jang, Hee-Seok Oh and Donghoh Kim.

TAM Test Analysis Modules. Authors: Thomas Kiefer [aut], Alexander Robitzsch [aut, cre], Margaret Wu [aut]. In view: *Psychometrics*.

TBEST Tree Branches Evaluated Statistically for Tightness. Authors: Guoli Sun, Alex Krasnitz.

TH.data TH's Data Archive. Author: Torsten Hothorn [aut, cre].

TInPosition Inference tests for TExPosition. Authors: Derek Beaton, Jenny Rieck, Herve Abdi.

TSclust Time series clustering utilities. Authors: Pablo Montero Manso, José Antonio Vilar. In view: *TimeSeries*.

TSjson **TSdbi** extension for importing time series from web sources via JSON. Author: Paul Gilbert.

TSsql Generic SQL helper functions for **TSdbi** SQL plugins. Author: Paul Gilbert.

TableToLongForm Author: Jimmy Oh [aut, cre].

TapeR Flexible tree taper curves based on Semiparametric Mixed Models. Author: Edgar Kublin.

Thinknum Thinknum Data Connection. Author: Gregory Ugwi.

TiddlyWikiR Create dynamic reports using a TiddlyWiki template. Author: David Montaner.

Tides Author: Tom Cox. In view: *TimeSeries*.

ToxLim Incorporating Ecological Data and Associated Uncertainty in Bioaccumulation Modeling. Authors: Frederik De Laender and Karline Soetaert.

TriMatch Propensity Score Matching of Non-Binary Treatments. Author: Jason Bryer.

UScancer Create US cancer datasets from SEER, IARC, and US Census data. Author: Jonathan Lee.

VIMGUI Visualization and Imputation of Missing Values. Authors: Daniel Schopfhauser, Matthias Templ, Andreas Alfons, Alexander Kowarik, Bernd Prantner.

VLF Frequency Matrix Approach for Assessing Very Low Frequency Variants in Sequence Records. Authors: Taryn B. T. Athey and Paul D. McNicholas.

VSURF Variable Selection Using Random Forests. Authors: Robin Genuer, Jean-Michel Poggi and Christine Tuleau-Malot.

VaRES Computes value at risk and expected shortfall for over 100 parametric distributions. Authors: Saralees Nadarajah, Stephen Chan and Emmanuel Afuecheta.

VizOR Graphical visualization tools for complex observational data with focus on health sciences. Authors: Drew Griffin Levy [aut], David C. Norris [aut, cre].

WhopGenome High-speed processing of whole-genome VCF-format variation data, FASTA-format sequence data and several alignments formats. Author: Ulrich Wittelsbuerger.

XML2R EasieR XML data collection. Author: Carson Sievert.

YPmodel The Short-term and Long-term Hazard Ratio Model for Survival Data. Authors: Junlong Sun and Song Yang.

ZIM Statistical Models for Count Time Series with Excess Zeros. Authors: Ming Yang, Gideon K. D. Zamba, and Joseph E. Cavanaugh.

aLFQ Estimation of absolute protein quantities from label-free LC-MS/MS proteomics data. Authors: George Rosenberger, Hannes Roest, Christina Ludwig, Barry Grant.

abf2 Load Axon ABF2 files (currently only in gap-free recording mode). Author: Matthew Caldwell.

abundant Abundant regression and high-dimensional principal fitted components. Author: Adam J. Rothman.

accelerometry Functions for processing uniaxial minute-to-minute accelerometer data. Author: Dane R. Van Domelen.

accrued Visualization tools for partially accruing data. Authors: Julie Eaton and Ian Painter.

acopula Modelling dependence with multivariate Archimax (or any user-defined continuous) copulas. Author: Tomas Bacigal.

agop Aggregation Operators and Preordered Sets. Authors: Marek Gagolewski [aut, cre], Anna Cena [ctb].

alm R wrapper to the almetrics API platform developed by PLoS. Authors: Scott Chamberlain [aut, cre], Carl Boettiger [aut], Karthik Ram [aut], Fenner Martin [aut]. In view: *WebTechnologies*.

aml Adaptive Mixed LASSO. Author: Dong Wang.

animalTrack Animal track reconstruction for high frequency 2-dimensional (2D) or 3-dimensional (3D) movement data. Authors: Ed Farrell and Lee Fuiman. In view: *SpatioTemporal*.

aoristic aoristic analysis with spatial output (kml). Author: George Kikuchi.

aprof Amdahl's profiler, directed optimization made easy. Author: Marco D. Visser.

avgrankoverlap Average Rank Overlap. Author: Fatih Sunor [aut, cre].

b6e6rl Adaptive differential evolution, b6e6rl variant. Author: Marek Spruzina.

bbefkr Bayesian bandwidth estimation for the functional kernel regression with unknown error density. Author: Han Lin Shang.

bcpa Behavioral change point analysis of animal movement. Author: Eliezer Gurarie. In view: *SpatioTemporal*.

bdynsys Bayesian Dynamical System Model. Authors: Shyam Ranganathan, Viktoria Spaiser, Richard P. Mann, David J. T. Sumpter.

bigGP Distributed Gaussian process calculations. Authors: Christopher Paciorek [aut, cre], Benjamin Lipshitz [aut], Prabhat [ctb], Cari Kaufman [ctb], Tina Zhuo [ctb], Rollin Thomas [ctb].

bizdays Functions to handle business days calculations. Author: Wilson Freitas.

blkergm Fitting block ERGM given the block structure on social networks. Authors: Xiaolin Yang, Stephen Fienberg, Alessandro Rinaldo, Han Liu, Michael Rosenblum.

boxplotdbl Double Box Plot for Two-Axes Correlation. Author: Shinichiro Tomizono.

branchLars Cost-efficient Variable Selection. Author: Li Hua Yue.

cSFM Covariate-adjusted Skewed Functional Model (cSFM). Authors: Meng Li, Ana-Maria Staicu, and Howard D. Bondell.

cabootcrs Bootstrap Confidence Regions for Correspondence Analysis. Author: T. J. Ringrose.

camel Calibrated Machine Learning. Authors: Xingguo Li, Tuo Zhao, and Han Liu.

censNID Censored NID samples. Authors: A. I. McLeod and N. M. Mohammad.

cgwtools My collection of useful tools. Author: Carl Witthoft.

chemosensors A tool for the design of synthetic experiments in machine olfaction. Authors: Alexandre Perera-Lluna and Andrey Ziyatdinov.

chngpt Change Point Logistic Regression. Author: Youyi Fong.

circlize Circular layout in R. Author: Zuguang Gu.

clogitL1 Fitting exact conditional logistic regression with lasso and elastic net penalties. Authors: Stephen Reid and Robert Tibshirani.

cluster.datasets Cluster Analysis Data Sets. Author: Frederick Novomestky.

clusterGenomics Identifying clusters in genomics data by recursive partitioning. Authors: Gro Nilsen and Ole Christian Lingjaerde.

clustrd Methods for joint dimension reduction and clustering. Authors: Angelos Markos [aut, cre], Alfonso Iodice D' Enza [aut], Michel Van de Velden [aut].

codadiags Markov chain Monte Carlo burn-in based on "bridge" statistics. Authors: Yann Richet, Xavier Bay, Olivier Jacquet, Alexis Jinaphanh.

cold Count Longitudinal Data. Authors: M. Helena Gonçalves and M. Salomé Cabral, apart from a set of Fortran-77 subroutines written by R. Piessens and E. de Doncker, belonging to the suite "Quadpack".

comclim Community climate statistics. Author: Benjamin Blonder.

compactr Creates empty plots with compact axis notation. Author: Carlisle Rainey.

coneproj Primal or Dual Cone Projections with Routines for Shape-restricted Regression. Authors: Mary C. Meyer and Xiyue Liao.

convevol Quantify and assess the significance of convergent evolution. Authors: C. Tristan Stayton [aut, cre]. In view: *Phylogenetics*.

corTools Tools for processing data after a Genome Wide Association Study. Author: Angela Fan.

covLCA Latent Class Models with Covariate Effects on Underlying and Measured Variables. Authors: Aurelie Bertrand and Christian M. Hafner.

cpa Confirmatory Path Analysis through the d-sep tests. Authors: Alessandro Bellino and Daniela Baldantoni.

cpk Clinical Pharmacokinetics. Authors: Oscar A. Linares [aut, cre], David T. Daly [aut].

crch Censored Regression with Conditional Heteroscedasticity. Authors: Jakob Messner [aut, cre], Achim Zeileis [aut]. In view: *Econometrics*.

crqa Cross-Recurrence Quantification Analysis for Categorical and Continuous Time-Series. Authors: Moreno I. Coco and Rick Dale.

cycloids Author: Peter Biber.

d3Network Tools for creating D3 JavaScript network and tree graphs from R. Author: Christopher Gandrud.

dataQualityR Performs variable level data quality checks and generates summary statistics. Authors: Madhav Kumar and Shreyes Upadhyay.

decctools Get energy data from the UK Dept of Energy and Climate Change. Author: James Keirstead. In view: *WebTechnologies*.

demoKde Kernel Density Estimation for Demonstration Purposes. Author: Bill Venables.

diaplt Beads Summary Plot of Ranges. Author: Shinichiro Tomizono.

diffEq Functions from the book "Solving Differential Equations in R". Author: Karline Soetaert.

diffIRT Diffusion-based IRT models for Response and Response Time Data. Author: Dylan Molenaar.

dils Data-Informed Link Strength. Combine multiple-relationship networks into a single weighted network. Impute (fill-in) missing network links. Author: Stephen R. Haptonstahl.

directPA Direction Pathway Analysis. Authors: Pengyi Yang and Ellis Patrick.

distillery Method Functions for Confidence Intervals and to Distill Information from an Object. Author: Eric Gilleland.

distrom Distributed Multinomial Regression. Author: Matt Taddy.

dosresmeta Performing dose-response meta-analysis. Author: Alessio Crippa. In view: *MetaAnalysis*.

dpcR Digital PCR Analysis. Authors: Michal Burdukiewicz, Stefan Roediger.

drmdel Dual empirical likelihood inference under density ratio models for multiple samples. Author: Song Cai.

dupiR Bayesian inference from count data using discrete uniform priors. Authors: Federico Comoglio and Maurizio Rinaldi.

dynBiplotGUI Full Interactive GUI for Dynamic Biplot in R. Author: Jaime Egido.

dynsim An R implementation of dynamic simulations of autoregressive relationships. Authors: Laron K Williams, Guy D Whitten, and Christopher Gandrud.

effsize Functions for computing effect sizes. Author: Marco Torchiano.

eggCounts Hierarchical modelling of faecal egg counts. Author: Michaela Paul.

eigenprcomp Computes confidence intervals for principal components. Author: Francisco Juretig.

elliplot Ellipse Summary Plot of Quantiles. Author: Shinichiro Tomizono.

em2 Compute reading time measures for psycholinguistics. Authors: Pavel Logacev, Shravan Vasishth.

emdatr Global disaster losses from the EM-DAT database. Author: Gopi Goteti.

enRich Analysis of multiple ChIP-seq data. Authors: Yanchun Bao and Veronica Vinciotti.

entropart Entropy partitioning to measure diversity. Authors: Eric Marcon, Bruno Herault.

enviPat Isotope pattern, profile and centroid calculation for mass spectrometry. Authors: Martin Loos, Christian Gerber.

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).

eqs2lavaan EQS Output Conversion to *lavaan* Functions. Author: Craig M. Krebsbach.

equateIRT Direct, chain and average equating coefficients with standard errors using IRT methods. Author: Michela Battauz. In view: *Psychometrics*.

erboost Nonparametric Multiple Expectile Regression via ER-Boost. Authors: Yi Yang, Hui Zou.

ergm.graphlets ERG Modeling Based on Graphlet Properties. Authors: Omer Nebil Yaveroglu [aut, cre], Sean M. Fitzhugh [aut], Maciej Kurant [aut], Athina Markopoulou [aut], Natasa Przulj [aut], Carter T. Butts [aut].

eventInterval Sequential event interval analysis. Author: Jim Lemon.

evmix Extreme Value Mixture Modelling, Threshold Estimation and Boundary Corrected Kernel Density Estimation. Authors: Yang Hu and Carl Scarrott, University of Canterbury.

evobiR Evolutionary biology in R. Author: Heath Blackmon. In view: *Phylogenetics*.

evt0 Mean of order p (MOP) and peaks over random threshold (PORT) Hill estimates for the extreme value index (EVI). Author: B G Manjunath.

exactmeta Exact fixed effect meta analysis. Authors: Yilei Yu and Lu Tian. In view: *Meta-Analysis*.

excursions Functions that compute probabilistic excursion sets and contour credibility regions for latent Gaussian random processes and fields. Authors: David Bolin and Finn Lindgren.

expands Author: Noemi Andor.

fExpressCertificates Structured Products Valuation for ExpressCertificates/Autocallables. Author: Stefan Wilhelm.

fICA Classic, reloaded and adaptive FastICA algorithms. Authors: Jari Miettinen, Klaus Nordhausen, Hannu Oja, Sara Taskinen.

factas Data Mining Methods. Author: Romain Bar.

fclust Fuzzy clustering. Authors: Paolo Giordani, Maria Brigida Ferraro.

fcros FCROS for detecting differentially expressed genes. Author: Doulaye Dembele.

fdakma Clustering and alignment of a functional dataset. Authors: Mirco Patriarca, Laura Sangalli, Piercesare Secchi, Simone Vantini, Valeria Vitelli.

fdatest Interval Testing Procedure for functional data. Authors: Alessia Pini, Simone Vantini.

fishMod Fits Poisson-sum-of-Gammas GLMs, Tweedie GLMs, and delta log-normal mdoels. Author: Scott D. Foster.

fitTetra Assigning tetraploid genotype scores. Authors: Roeland Voorrips and Gerrit Gort.

flexCWM Flexible Cluster-Weighted Modeling. Authors: A. Mazza, A. Punzo, S. Ingrassia.

flora Taxonomical information on flowering species that occur in Brazil. Author: Gustavo Carvalho. In view: *WebTechnologies*.

fscaret Automated **caret** feature selection. Authors: Jakub Szlek, acknowledgments to Aleksander Mendyk, contributions from stackoverflow and r-help@r-project.org mailing list community.

gPCA Batch Effect Detection via Guided Principal Components Analysis. Author: Sarah Reese.

gWidgets2 Rewrite of gWidgets API for simplified GUI construction. Author: John Verzani.

gWidgets2RGtk2 Implementation of **gWidgets2** for **RGtk2** package. Author: John Verzani.

gWidgets2tcltk Toolkit implementation of **gWidgets2** for **tcltk** package. Author: John Verzani.

gambin Fit the GamBin model to species abundance distributions. Authors: Michael Krabbe Borregaard, Thomas Matthews and Karl Ugland.

genMOSSplus Application of MOSS algorithm to genome-wide association study (GWAS). Authors: Olga Vesselova, Matthew Friedlander, Laurent Briollais, Adrian Dobra, Helene Massam.

georob Robust Geostatistical Analysis of Spatial Data. Authors: Andreas Papritz [cre, aut], Cornelia Schwierz [ctb]. In view: *Spatial*.

geostatsp Geostatistics using SpatialPoints and rasters. Authors: Patrick Brown [aut, cre], Robert Hijmans [ctb].

gettingtothebottom Getting to the Bottom, a package for Learning Optimization Methods. Author: Jocelyn T. Chi.

ggHorizon An implementation of Horizon Graph. Author: Thomas Kern.

ggROC ROC curve plot with **ggplot2**. Author: Honglong Wu.

gitter Robust and accurate quantification of pinned colony sizes in microorganisms. Authors: Omar Wagih, Leopold Parts.

glinternet Learning interactions via hierarchical group-lasso regularization. Authors: Michael Lim, Trevor Hastie.

glmlep Fit GLM with LEP-based penalized maximum likelihood. Authors: Canhong Wen, Hao Lin.

globalGSA Global Gene-Set Analysis for Association Studies. Authors: Natalia Vilor, M.Luz Calle.

globalOptTests Objective functions for benchmarking the performance of global optimization algorithms. Author: Katharine Mullen.

gmatrix Harnessing GPU Power. Author: Nathan Morris.

govStatJPN functions to get public survey data in Japan. Author: Yuichiro Otani. In view: *WebTechnologies*.

gpk 100 Data Sets for Statistics Education. Author: Prabhanjan Tattar.

gpmap Analysing and plotting genotype-phenotype maps. Authors: Arne B. Gjuvsland and Yunpeng Wang.

gpr A Minimalistic package to apply Gaussian Process in R. Author: Afshin Sadeghi.

growthmodels Nonlinear Growth Models. Author: Daniel Rodriguez Perez.

gsalib Utility functions for GATK. Author: Kiran Garimella.

gskat GEE_KM. Author: Xuefeng Wang.

highr Syntax highlighting for R. Authors: Yihui Xie and Yixuan Qiu.

hsphase Phasing and imputation of half-sib families using SNP data. Authors: Mohammad Ferdosi, Cedric Gondro.

humanFormat Human-friendly formatting functions. Author: Dustin Sallings.

hydroApps Tools and models for hydrological applications. Author: Daniele Ganora.

hypervolume High-dimensional kernel density estimation and geometry operations. Author: Benjamin Blonder.

hysteresis Tools for Modeling Rate-Dependent Hysteretic Processes and Ellipses. Authors: Spencer Maynes, Fan Yang, and Anne Parkhurst.

inarmix Mixture models for longitudinal count data. Authors: Nicholas Henderson and Paul Rathouz.

incReg Incremental Multivariate Regression. Author: Alexander Entzian [cre, aut, cph].

influence.SEM Case Influence in Structural Equation Models. Authors: Massimiliano Pastore and Gianmarco Altoe'.

investr Calibration/Inverse Estimation with Linear and Nonlinear Regression Models in R. Author: Brandon M. Greenwell.

ipfp Fast implementation of the iterative proportional fitting procedure in C. Author: Alexander W Blocker.

iqLearn Interactive Q-learning. Authors: Kristin A. Linn, Eric B. Laber, Leonard A. Stefanski.

itree Tools for classification and regression trees, with an emphasis on interpretability. Authors: Alex Goldstein (itree modifications), Terry Therneau, Beth Atkinson, Brian Ripley (rpart).

jtrans Johnson transformation for normality. Author: Wang Yuchen.

jvmr Integration of R, Java, and Scala. Author: David B. Dahl.

kcirt k-Cube Thurstonian IRT Models. Authors: Dave Zes, Jimmy Lewis, Dana Landis.

kedd Kernel Estimator and Bandwidth Selection for Density and its Derivatives. Author: Arsalane Chouaib Guidoum.

kmconfband Kaplan-Meier Simultaneous Confidence Band for the Survivor Function. Author: David E. Matthews.

kmlcov Clustering longitudinal data using the likelihood as a metric of distance. Authors: Mamoun O. Benghezal [aut, cre], Christophe Genolini [ctb].

knitrBootstrap Knitr Bootstrap framework. Author: Jim Hester.

krm Kernel-based Regression Models. Authors: Youyi Fong, Saheli Datta, Krisztian Sebestyen.

ktsolve Configurable function for solving families of nonlinear equations. Author: Carl Witthoft.

l2boost Friedman's boosting algorithm for regularized linear regression. Authors: John Ehrlinger [aut, cre], Hemant Ishwaran [aut].

laGP Local Approximate Gaussian Process Regression. Author: Robert B. Gramacy.

label.switching Relabelling MCMC outputs of mixture models. Author: Panagiotis Papastamoulis.

learningr Data and functions to accompany the book "Learning R". Author: Richie Cotton.

likeLTD Tools to determine DNA profile evidence. Authors: David Balding, Adrian Timpson, Christopher Steele, Mayeul d'Avezac, James Hetherington.

likert Functions to analyze and visualize likert type items. Authors: Jason Bryer, Kimberly Speerschneider.

lm.br Linear Model with Breakpoint. Authors: Marc Adams [aut, cre], authors of R function 'lm' [ctb] (general interface), authors of 'lm.gls' [ctb] (interface and R code for matrix weights), U.S. NIST [ctb] (C++ code for TNT::Vector template).

locits Test of stationarity and localized autocovariance. Authors: Guy Nason [aut, cre].

logcondens.mode Compute MLE of Log-Concave Density on R with Fixed Mode, and Perform Inference for the Mode. Author: Charles Doss.

lomb Lomb-Scargle Periodogram. Authors: Thomas Ruf, partially based on C original by Press et al. (Numerical Recipes).

lrmest Different types of estimators to deal with multicollinearity. Authors: Ajith Dissanayake [aut, cre], P. Wijekoon [aut], R-core [cph].

lsdv Fixed effect panel data regression. Author: Zaghdoudi Taha.

lshorth The Length of the Shorth. Author: G. Sawitzki.

ltsbase Ridge and Liu Estimates based on LTS (Least Trimmed Squares) Method. Authors: Betul Kan Kilinc [aut, cre], Ozlem Alpu [aut, cre].

lymphclon Accurate Estimation of Clonal Coincidences and Abundances from Biological Replicates. Authors: Yi Liu [aut, cre], Richard A. Olshen [aut], Andrew Z. Fire [aut], Scott D. Boyd [aut].

mQTL Metabolomic Quantitative Trait Locus Mapping. Authors: Lyamine Hedjazi and Jean-Baptiste Cazier.

mallet A wrapper around the Java machine learning tool MALLET. Author: David Mimno.

mapmisc Utilities for producing maps. Author: Patrick Brown.

markovchain Handle and analyze discrete Markov chains. Author: Giorgio Alfredo Spedicato. In view: *Finance*.

matrixpls Matrix-based Partial Least Squares estimation. Author: Mikko Rönkkö.

mbbefd MBBEFD distribution and exposure curve. Author: Giorgio Spedicato. In view: *Distributions*.

mcGlobaloptim Global optimization using Monte Carlo and Quasi Monte Carlo simulation. Author: Thierry Moudiki.

memuse Estimate the memory usage of dense, in-core, numeric objects. Author: Drew Schmidt.

micromapST Linked Micromap Plots for U. S. States. Authors: Dan Carr and Jim Pearson, with contributions from Linda Pickle.

midasr Mixed Data Sampling Regression. Authors: Virmantas Kvedaras, Vaidotas Zemlys. In views: *Econometrics*, *TimeSeries*.

migration.indices Migration indices. Authors: Lajos Bálint and Gergely Daróczi.

mistat Data sets, functions and examples from the book: "Modern Industrial Statistics" by Kenett, Zacks and Amberti. Author: Daniele Amberti.

mizer Multi-species sIZE spectrum modelling in R. Authors: Finlay Scott and Julia Blanchard and Ken Andersen.

mlDNA Machine Learning-based Differential Network Analysis of Transcriptome Data. Authors: Chuang Ma and Xiangfeng Wang.

mlr Machine Learning in R. Author: Bernd Bischl.

mopsocd Multi-objective Particle Swarm Optimization with Crowding Distance. Author: Pros Naval.

mpmi Mixed-pair mutual information estimators. Author: Chris Pardy.

mreg Fits regression models when the outcome is partially missing. Author: Simon Bond.

multiDimBio Multivariate Analysis and Visualization for Biological Data. Author: Samuel V. Scarpino.

multiplex Analysis of Multiple Social Networks with Algebra. Author: J. Antonio Rivero Ostoic. In view: *Psychometrics*.

mvMORPH Multivariate Comparative Tools for Fitting Evolutionary Models to Morphometric Data. Authors: Julien Clavel, with contributions from Aaron King, and Emmanuel Paradis.

mvSLOUCH MultiVariate Stochastic Linear Ornstein-Uhlenbeck models for phylogenetic Comparative hypotHeses. Author: Krzysztof Bartoszek.

mvcwt Wavelet analysis of multiple time series. Author: Timothy H. Keitt.

naturalsort Natural Ordering. Author: Kosei Abe.

ndtv Network Dynamic Temporal Visualizations. Authors: Skye Bender-deMoll [cre, aut], Martina Morris [ctb].

needy Author: Ryan Grannell.

netClass Network-Based Biomarker Discovery. Author: Yupeng Cun.

netmeta Network meta-analysis with R. Authors: Gerta Ruecker, Guido Schwarzer. In view: *MetaAnalysis*.

netweavers NetWeAvers: Weighted Averages for Networks. Author: Elizabeth McClellan.

neuroblastoma Neuroblastoma copy number profiles. Author: Toby Dylan Hocking.

ngramr Retrieve and plot Google n-gram data. Author: Sean Carmody. In view: *WebTechnologies*.

nhlscrapr Compiling the NHL Real Time Scoring System Database for easy use in R. Authors: A.C. Thomas, Samuel L. Ventura. In view: *WebTechnologies*.

nlmeU Datasets and utility functions enhancing functionality of **nlme** package. Authors: Andrzej Galecki, Tomasz Burzykowski.

nonlinearTseries Nonlinear time series analysis. Author: Constantino A. Garcia. In view: *TimeSeries*.

npsp Nonparametric spatial (geo)statistics. Author: Ruben Fernandez-Casal.

nsga2R Elitist Non-dominated Sorting Genetic Algorithm based on R. Author: Ching-Shih (Vince) Tsou.

ocean Biophysical Oceanography Tools. Author: Benjamin Jones [aut, cre].

openNLPdata Apache OpenNLP Jars and Basic English Language Models. Authors: Kurt Hornik [aut, cre], The Apache Software Foundation [ctb, cph] (Apache OpenNLP Java libraries), JWNL development team [ctb, cph] (JWNL Java WordNet Library).

opencpu OpenCPU framework for embedded statistical computation and reproducible research. Author: Jeroen Ooms. In view: *WebTechnologies*.

optextras A set of tools to support optimization methods (function minimization with at most bounds and masks). Author: John C. Nash [aut, cre].

ora Convenient Tools for Working with Oracle Databases. Author: Arni Magnusson.

ordBTL Modelling comparison data with ordinal response. Author: Giuseppe Casalicchio.

papeR A toolbox for writing Sweave or other LATEX-based papers and reports. Author: Benjamin Hofner.

parallelMap Unified interface to some popular parallelization back-ends for interactive usage and package development. Authors: Bernd Bischl, Michel Lang.

parboost Distributed Model-Based Boosting. Author: Ronert Obst.

pastis Phylogenetic Assembly with Soft Taxonomic Inferences. Authors: Klaas Hartmann, Gavin Thomas, Arne Mooers, Jeffrey Joy, Walter Jetz.

pathdiagram Basic functions for drawing path diagrams. Author: Gaston Sanchez.

pawacc Physical activity with accelerometers. Author: Marco Geraci.

pbdPROF Programming with Big Data — MPI Profiling Tools. Authors: Wei-Chen Chen [aut, cre], Drew Schmidt [aut], Gaurav Sehrawat [aut], Pragneshkumar Patel [aut], George Ostrouchov [aut]. In view: *HighPerformanceComputing*.

pbs Periodic B Splines. Author: Shuangcai Wang.

pedgene Gene-level statistics for Pedigree Data. Authors: Dan Schaid and Jason Sinnwell.

peptider Evaluation of diversity in nucleotide libraries. Authors: Heike Hofmann, Eric Hare, ggobi Foundation.

phalen Phalen Algorithms and Functions. Author: Robert P. Bronaugh.

phaseR Phase Plane Analysis of One and Two Dimensional ODE Systems. Author: Michael J. Grayling.

phenmod Auxiliary functions for phenological data processing, modelling and result handling. Author: Maximilian Lange.

phyloTop Phylogenetic Tree Topological Properties Evaluator. Author: Michael Boyd.

plot3D Plotting multi-dimensional data. Author: Karline Soetaert.

polyaAeppli Implementation of the Polya-Aeppli distribution. Author: Conrad Burden.

polyclip Polygon Clipping. Authors: Angus Johnson. Ported to R by Adrian Baddeley and Brian Ripley.

popsom Self-Organizing Maps With Population Based Convergence Criterion. Authors: Lutz Hamel [aut, cre], Benjamin Ott [aut], Gregory Breard [aut].

poweRlaw Fitting heavy tailed distributions. Author: Colin Gillespie.

powerAnalysis Power analysis in experimental design. Author: Felix Yanhui Fan.

ppmlasso Point Process Models with LASSO penalties. Author: Ian Renner.

prevalence Authors: Brecht Devleesschauwer [aut, cre], Paul Torgerson [aut], Johannes Charlier [aut], Bruno Levecke [aut], Nicolas Praet [aut], Pierre Dorny [aut], Dirk Berkvens [aut], Niko Speybroeck [aut]. In view: *Bayesian*.

primerTree Author: Jim Hester.

prinsimp Finding and plotting simple basis vectors for multivariate data. Authors: Davor Cubranic, Jonathan Zhang, Nancy Heckman, Travis Gaydos, and J.S. Marron.

profileR Profile Analysis and Its Applications. Authors: Okan Bulut, Christopher David Desjardins. In view: *Psychometrics*.

prognosticROC Prognostic ROC curves for evaluating the predictive capacity of a binary test. Authors: Y. Foucher and C. Combescure.

propagate Propagation of Uncertainty. Author: Andrej-Nikolai Spiess.

prospectr Miscellaneous functions for processing and sample selection of vis-NIR diffuse reflectance data. Authors: Antoine Stevens and Leonardo Ramirez-Lopez. In view: *ChemPhys*.

protoclass Interpretable classification with prototypes. Authors: Jacob Bien and Robert Tibshirani.

pse Parameter space exploration with Latin Hypercubes. Authors: Andre Chalom, Paulo Inacio Knegt Lopez de Prado.

psidR Build panel data sets from PSID raw data. Author: Florian Oswald.

pumilioR Pumilio in R. Author: Luis J. Villanueva-Rivera.

pvsR Interact with the Project Vote Smart API for scientific research. Author: Ulrich Matter.

pwt8 Penn World Table (Version 8.0). Author: Achim Zeileis [aut, cre]. In view: *Econometrics*.

qfa Tools for modelling the growth dynamics of arrays of large numbers of colonies and performing quantitative fitness analysis (QFA). Authors: Conor Lawless, with contributions from Alexander Young and Darren Wilkinson.

qiimer Work with QIIME Output Files in R. Author: Kyle Bittinger.

quint Qualitative Interaction Trees. Authors: Elise Dusseldorp [aut, cre, cph], Lisa Doove [aut], Cor Ninaber [ctb] (supported with the plot function), Iven Van Mechelen [aut, cph].

rLakeAnalyzer Analysis of lake physics. Authors: Luke Winslow, Jordan Read, Richard Woolway, Jennifer Brentrup, Jake Zwart.

rLindo R Interface to LINDO API. Author: Zhe Liu.

rNOMADS An interface to the NOAA Operational Model Archive and Distribution System. Author: Daniel C. Bowman [aut, cre].

raincpc Obtain and Analyze Rainfall data from the Climate Prediction Center (CPC). Author: Gopi Goteti.

randomizationInference Flexible Randomization-Based Inference. Authors: Joseph J. Lee and Tirthankar Dasgupta.

rbiouml Functions to interact with BioUML server. Authors: Ivan Yevshin and Tagir Valeev.

rbmn Handling Linear Gaussian Bayesian Networks. Author: Jean-Baptiste Denis.

reader A suite of functions to flexibly read data from files. Author: Nicholas Cooper.

referenceIntervals Reference Intervals. Author: Daniel Finnegan.

regpro Nonparametric Regression. Author: Jussi Klemela.

rentrez Entrez in R. Author: David Winter. In view: *WebTechnologies*.

reutils Talk to the NCBI EUtils. Author: Gerhard Schoefl.

rfisheries R interface for fisheries data. Authors: Karthik Ram [aut, cre], Carl Boettiger [aut], Andrew Dyck [aut]. In view: *WebTechnologies*.

rgauges R wrapper to Gaug.es API. Authors: Scott Chamberlain [aut, cre], Karthik Ram [aut]. In view: *WebTechnologies*.

rio A Swiss-army knife for data file I/O. Authors: Chung-hong Chan, Geoffrey CH Chan.

rite The Right Editor to Write R. Author: Thomas J. Leeper.

rotations Tools for Working with Rotation Data. Authors: Bryan Stanfill, Heike Hofmann, Ulrike Genschel.

rsig Robust Signature Selection for Survival Outcomes. Authors: Sangkyun Lee, Michel Lang.

rsnps Get SNP (Single-Nucleotide Polymorphism) data on the web. Authors: Scott Chamberlain [aut, cre], Kevin Ushey [aut]. In view: *WebTechnologies*.

rtematres The rtematres API package. Author: Claas-Thido Pfaff.

rvHPDT Calling haplotype-based and variant-based pedigree disequilibrium test for rare variants in pedigrees. Author: Wei Guo.

sGPCA Sparse Generalized Principal Component Analysis. Author: Frederick Campbell.

samplingEstimates Sampling Estimates. Author: Emilio Lopez Escobar.

scar Shape-Constrained Additive Regression: a Maximum Likelihood Approach. Authors: Yining Chen and Richard Samworth.

scholar Analyse citation data from Google Scholar. Author: James Keirstead. In view: *WebTechnologies*.

scoring Proper scoring rules. Author: Ed Merkle.

sealasso Standard Error Adjusted Adaptive Lasso. Author: Wei Qian.

sensitivitymv Sensitivity Analysis in Observational Studies. Author: Paul R. Rosenbaum.

seqMeta Meta-analyzing region-based tests of rare DNA variants. Authors: Arend Voorman, Jennifer Brody, Han Chen, Thomas Lumley. In view: *MetaAnalysis*.

servr A simple HTTP server in R. Author: Yihui Xie. In view: *WebTechnologies*.

sheldusr Natural disaster losses for the USA from the SHELDUS database. Author: Gopi Goteti.

shinyAce Ace editor bindings for Shiny. Author: Trestle Technology, LLC.

shinyRGL Shiny Wrappers for RGL. Author: Trestle Technology, LLC.

simMSM Simulation of event histories based on nonlinear hazard rate functions and potentially nonlinear covariate effects. Author: Holger Reulen.

simPH Tools for simulating and plotting quantities of interest estimated from Cox Proportional Hazards models. Author: Christopher Gandrud.

simsalapar Tools for Simulation Studies in Parallel with R. Authors: Marius Hofert and Martin Maechler.

sirt Supplementary Item Response Theory Models. Author: Alexander Robitzsch. In view: *Psychometrics*.

sjPlot Data visualization for statistics in social science. Author: Daniel Lüdecke.

sjdbc JDBC Driver Interface. Author: TIBCO Software Inc.

smaa Stochastic Multi-criteria Acceptability Analysis. Author: Gert van Valkenhoef.

smam Statistical Modeling of Animal Movements. Authors: Jun Yan and Vladimir Pozdnyakov. In view: *SpatioTemporal*.

smoothie Two-dimensional Field Smoothing. Author: Eric Gilleland.

smss Datasets for Agresti and Finlay's "Statistical Methods for the Social Sciences". Authors: Jeffrey B. Arnold [aut, cre], Alan Agresti [cph], Barbara Finlay [cph].

snapshot Gadget N-body cosmological simulation code snapshot I/O utilities. Author: Aaron Robotham.

snplist Tools to create Gene Sets. Authors: Chanhee Yi, Alexander Sibley, and Kouros Owzar.

soilprofile Consistently represent soil properties along a soil profile. Author: Gianluca Filippa.

somebm Some Brownian motions simulation functions. Author: Junwen Huang.

sorvi Finnish Open Government Data Toolkit. Authors: Leo Lahti, Juuso Parkkinen, Joona Lehtomaki, Juuso Haapanen, Jussi Paananen, Einari Happonen.

soundecology Soundscape ecology. Authors: Luis J. Villanueva-Rivera and Bryan C. Pijanowski.

spaMM Mixed models, particularly spatial GLMMs. Authors: François Rousset [aut, cre, cph], Jean-Baptiste Ferdy [aut, cph].

sparc Semiparametric Generalized Linear Models. Authors: Tuo Zhao and Han Liu.

sparktex Generate LATEX sparklines in R. Authors: Thomas Leeper [aut, cre], Andy Barbour [ctb].

sparseBC Sparse biclustering of transposable data. Author: Kean Ming Tan.

sparseMVN Multivariate normal functions for sparse covariate and precision matrices. Author: Michael Braun. In view: *Distributions*.

speccalt Alternative spectral clustering, with automatic estimation of k. Author: Pierrick Bruneau.

splitstackshape Functions to split concatenated data, conveniently stack columns of data.frames, and conveniently reshape data.frames. Author: Ananda Mahto.

splusTimeDate Times and Dates from S-PLUS. Author: TIBCO Software Inc.

splusTimeSeries Time Series from S-PLUS. Author: TIBCO Software Inc.

ssfit Fitting of parametric models using summary statistics. Author: Christiana Kartsonaki.

ssmrob Robust estimation and inference in sample selection models. Authors: Mikhail Zhelonkin, Marc G. Genton, Elvezio Ronchetti.

ssvd Sparse SVD. Author: Dan Yang. In view: *NumericalMathematics*.

stima Simultaneous Threshold Interaction Modeling Algorithm. Authors: Elise Dusseldorp [aut, cre, cph], Claudio Conversano [aut, cph], Cor Ninaber [ctb], Kristof Meers [ctb], Peter Neufeglise [trl].

straweib Stratified Weibull Regression Model. Authors: Xiangdong Gu and Raji Balasubramanian.

strum STRUctural Modeling of Latent Variables for General Pedigree. Authors: Nathan Morris [aut, cre], Yeunjoo Song [aut], Stephen Cahn [ctb].

stylo Functions for a variety of stylometric analyses. Authors: Maciej Eder, Jan Rybicki, Mike Kestemont.

suRtex LATEX descriptive statistic reporting for survey data. Author: Dustin Landers.

surv2sampleComp Inference for model-free between-group parameters for censored survival data. Authors: Lu Tian, Hajime Uno.

survsim Simulation of simple and complex survival data. Authors: David Moriña, Centre Tecnològic de Nutrició i Salut and Albert Navarro.

svdvisual SVD visualization tools. Author: Lingsong Zhang.

svyPVpack Complex surveys including plausible values. Authors: Manuel Reif, Jakob Peterbauer.

switchnpreg Switching nonparametric regression models for a single curve and functional data. Authors: Camila de Souza and Davor Cubranic.

sybilEFBA Using gene expression data to improve flux balance analysis predictions. Author: Abdelmoneim Amer Desouki [aut, cre].

symbolicDA Analysis of symbolic data. Authors: Andrzej Dudek, Marcin Pelka, Justyna Wilk.

table1xls Produces summary tables in the format most often encountered in scientific articles, and exports them to spreadsheet format ('.xls' or '.xlsx'). Author: Assaf P. Oron.

tbart Teitz and Bart p-median algorithm. Author: Chris Brunsdon.

tbdiag Functions for tuberculosis diagnostics research. Author: Matt Parker.

tester Tests and checks characteristics of R objects. Author: Gaston Sanchez.

testit A simple package for testing R packages. Author: Yihui Xie.

textometry Textual Data Analysis Package used by the TXM Software. Authors: Sylvain Loiseau, Vaudor Lise, Matthieu Decorde.

tibbrConnector R interface to tibbr. Author: TIBCO Software Inc.

timesboot Bootstrap computations for time series objects. Author: Francisco Juretig. In view: *TimeSeries*.

topsis TOPSIS method for multiple-criteria decision making (MCDM). Author: Mahmoud Mosalman Yazdi.

tsbridge Calculate normalising constants for Bayesian time series models. Authors: Guy J. Abel and Jackie S. T. Wong.

ttScreening Genome-wide DNA methylation sites screening by use of training and testing samples. Authors: Meredith Ray, Xin Tong, Hongmei Zhang.

ttwa Travel To Work Area. Authors: Francois Semecurbe, Joachim Timoteo.

turner Turn vectors and lists of vectors into indexed structures. Author: Gaston Sanchez.

uuid Tools for generating and handling of UUIDs. Authors: Simon Urbanek (R package), Theodore Ts'o (libuuid).

varComp Variance component models. Author: Long Qu.

vbdm Variational Bayes Discrete Mixture Model. Author: Benjamin Logsdon.

vectoptim Vectorized optimization methods. Authors: Qiang Kou, Yann Richet.

vimcom Intermediate the communication between Vim and R. Author: Jakson Aquino.

vscc Variable selection for clustering and classification. Authors: Jeffrey L. Andrews, Paul D. McNicholas.

waldwolf Wald-Wolfowitz trend test. Authors: Jodavid Ferreira, Claudio Souza.

widenet Penalized Regression with Polynomial Basis Expansions. Authors: Stephan Ritter, Alan Hubbard.

wordmatch Matches words in one file with words in another file. Author: Amit Singh Rathore.

wpp2012 World Population Prospects 2012. Authors: Hana Sevcikova, Patrick Gerland, Kirill Andreev, Nan Li, Danan Gu, Thomas Spoorenberg.

wppExplorer Explorer of World Population Prospects. Author: Hana Sevcikova.

zoom A spatial data visualization tool. Authors: Corentin M Barbu [aut, cre], Sebastian Gibb [ctb].

Other changes

The following packages were moved to the Archive: **BTSPAS**, **BcDiag**, **BerkeleyEarth**, **BiGGR**, **CatDyn**, **EDanalysis**, **EquiNorm**, **ExactNumCI**, **ExomeCNV**, **GOSim**, **GRRGI**, **HumMeth27QCReport**, **ISIPTA**, **JointModeling**, **LSC**, **LaplacesDemon**, **LogicForest**, **MFDF**, **MeDiChI**, **Metadata**, **NetworkAnalysis**, **OrdLogReg**, **PairTrading**, **RAFM**, **RHive**, **Rcmdr-Plugin.qcc**, **Read.isi**, **ResearchMethods**, **RghcnV3**, **SVGmapping**, **SteinerNet**, **TCC**, **TextRegression**, **USPS**, **WaveletCo**, **aBioMarVsuit**, **afmtools**, **binhf**, **boolfun**, **bsml**, **bwsurvival**, **cem**, **climatol**, **clusterCons**, **coenoflex**, **cplm**, **ctarma**, **curvclust**, **dclong.spt**, **driftsel**, **edesign**, **elrm**, **fastVAR**, **fitDRC**, **geoPlot**, **geospacom**, **igraph0**, **interactivity**, **languageR**, **lcmr**, **lemma**, **longRPart**, **makeR**, **mapReduce**, **marginTree**, **melody**, **mfr**, **multmod**, **nonrandom**, **ocomposition**, **openNLPmodels.en**, **openNLPmodels.es**, **opencpu.demo**, **polyphemus**, **polytomous**, **popPK**, **productplots**, **profanal**, **rImpactStory**, **roxyPackage**, **rriskBayes**, **sabreR**, **spacom**, **trex**, **trio**, **ttrTests**

The following packages were resurrected from the Archive: AGSDest, BAYSTAR, DDHFm, DescribeDisplay, KappaV, MAMSE, MMS, McSpatial, MethComp, NADA, R4dfp, RMediation, Rclusterpp, Simile, TreePar, YourCast, cems, clustvarsel, codep, denpro, gearman, gllm, kernelPop, laser, lazy, lmeSplines, mht, mixer, nlts, pamctdp, pcurve, rmetasim, rv, soil.spec, somplot, sspline, tsModel

The following package had to be removed: **RTriangle**

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