相関係数

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| function (x, y = NULL, use = "everything", method = c("pearson",  "kendall", "spearman"))  {  na.method <- pmatch(use, c("all.obs", "complete.obs",  "pairwise.complete.obs", "everything", "na.or.complete"))  if (is.na(na.method))  stop("invalid 'use' argument")  method <- match.arg(method)  if (is.data.frame(y))  y <- as.matrix(y)  if (is.data.frame(x))  x <- as.matrix(x)  if (!is.matrix(x) && is.null(y))  stop("supply both 'x' and 'y' or a matrix-like 'x'")  stopifnot(is.numeric(x) || is.logical(x), is.atomic(x))  if (!is.null(y))  stopifnot(is.numeric(y) || is.logical(y), is.atomic(y))  Rank <- function(u) {  if (length(u) == 0L)  u  else if (is.matrix(u)) {  if (nrow(u) > 1L)  apply(u, 2L, rank, na.last = "keep")  else row(u)  }  else rank(u, na.last = "keep")  }  if (method == "pearson")  .Call(C\_cov, x, y, na.method, method == "kendall")  else if (na.method %in% c(2L, 5L)) {  if (is.null(y)) {  .Call(C\_cov, Rank(na.omit(x)), NULL, na.method, method ==  "kendall")  }  else {  nas <- attr(na.omit(cbind(x, y)), "na.action")  dropNA <- function(x, nas) {  if (length(nas)) {  if (is.matrix(x))  x[-nas, , drop = FALSE]  else x[-nas]  }  else x  }  .Call(C\_cov, Rank(dropNA(x, nas)), Rank(dropNA(y,  nas)), na.method, method == "kendall")  }  }  else if (na.method != 3L) {  x <- Rank(x)  if (!is.null(y))  y <- Rank(y)  .Call(C\_cov, x, y, na.method, method == "kendall")  }  else stop("cannot handle 'pairwise.complete.obs'")  } |