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> library(dawai)

> library("survival")
> data("pbc")
> data <- pbc[, c("bili", "albumin", "platelet", "stage")]
> data <- data[rowSums(is.na(data)) == 0, ]
> data <- cbind(data[, "stage", drop = FALSE],
+               "logBili" = log(data[["bili"]]),
+               "logAlbumin" = log(data[["albumin"]]),
+               "logPlatelet" = log(data[["platelet"]]))
> data$stage <- as.factor(data$stage)
> levels(data$stage)
> table(data$stage)
> levels(data$stage) <- c(1, 1, 2, 3)
> table(data$stage)
> A <- matrix(0, ncol = 9, nrow = 6)
> A[t(matrix(c(1, 1, 4, 4, 2, 5, 3, 6, 5, 8, 6, 9), nrow = 2))] <- 1
> A[t(matrix(c(1, 4, 4, 7, 2, 2, 3, 3, 5, 5, 6, 6), nrow = 2))] <- -1
> A
> set.seed(-5436)
> values <- runif(dim(data)[1])
> trainsubset <- (values < 0.25)
> testsubset <- (values >= 0.25)
> obj <- rlda(stage ~ logBili + logAlbumin + logPlatelet, data,
+             subset = trainsubset, gamma = c(0, 0.75, 1),
+             resmatrix = A, prior = c(1/3, 1/3, 1/3))
> obj
> pred <- predict(obj, newdata = data[testsubset,],
+                 grouping = data[testsubset, "stage"])
> pred$error.rate
> err.est(obj)

> data("Vehicle2")
> data <- Vehicle2[, 1:4]
> grouping <- Vehicle2$class
> levels(grouping)
> levels(grouping) <- c(4, 2, 1, 3)
> set.seed(-9152)
> values <- runif(dim(data)[1])
> trainsubset <- (values < 0.25)
> obj <- rqda(data, grouping, subset = trainsubset, retext = "s>1,2,3")
> obj
> testsubset <- (values >= 0.25)
> pred <- predict(obj, newdata = data[testsubset,],
+                 grouping = grouping[testsubset])
> pred$error.rate
> err.est(obj)

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