Errata for "Chemometrics with R: Multivariate Data Analysis in the Natural Sciences and Life Sciences" by Ron Wehrens

Changes in the R code of the book, described below, are already included in the latest version of the ChemometricsWithR package.

- **p. 20:** "This leads to the right plot in Figure 3.6." should read: "This leads to the smooth line in the left plot of Figure 3.6."
- p. 25: Argument "global" in the construction of object lcms.warpglobal should be "multiple".
- **p. 29:** The lines

```
> plot(mz, x[,1], type = "l", xlab = "m/z", ylab = "I")
> points(mz, x[wx2,2], col = "gray")
```

should be replaced by

to get Figure 3.12.

- p. 32: Before the first plot command, the following code should be inserted:
- > prostate.mz <- Prostate2000Raw\$mz
- p. 36: Before the first boxplot command, issue wines.mc <- scale(wines, scale = FALSE)
- p. 49: the second barplot should use wines.vars rather than wines.variances.
- p. 55: three lines from the bottom: the line containing the abline command should be removed.
- p. 58: the plot command for classical MDS should use wines.cmdscale, without the points list element.
- **p. 114:** the three lines

```
> x <- seq(.4, 5.4, length = 251)
> y <- seq(250, 1750, length = 251)
> gridXY <- cbind(rep(x, each = length(y)), rep(y, length(x)))</pre>
```

should appear before the last chunk of R code on page 113.

- p. 127: Variable X.rpart should be wines.rpart in the second piece of R code, creating Figure 7.6.
- **p. 131:** Variable vint should be vintages[odd] in the for-loop of the R code creating Figure 7.9; in the beginning of that bit of code the following command is missing:

```
X \leftarrow wines[odd,c(7, 13)]
```

- p. 136: Variable prost.rpart should be prost.rprt in the plotting command for Figure 7.10.
- p. 143: the second line in the second chunk of R code should read: predict(wines.nnet,
 w.df[even,], type = "class"))
- p. 152: the rms line should read rms(Ytr, fitted(Blm))
- p. 169: the code gas.nnet.pred <- predict(gas.nnet, Xeven.scores) should be added before the call to the rms function</p>
- p. 203: function addtest needs prost.df[even, -1] rather than prost[even,] in order to have corresponding variable names.
- p. 209: the RMSEP values reported in the book are calculated using the odd samples only:
 subset = odd should be added to the pcr function call to obtain the same numbers.
- p. 213: Tii <- solve(TSS) should be added before the call to the mahalanobis function.
- p. 213: in the function definition of pls.cvfun one should use the number of components rather than the number of variables the last line of the function should read

```
-MSEP(pls.obj, estimate = "CV") $val[pls.obj$ncomp + 1]
```

- p. 214: x = c(0, .2) rather than c(0, .1).
- p. 246: Nine lines from the bottom of the page, one should plot prost.trn.err rather than 1
 prost.trn.err. In addition, there is a comma missing before ylab, 8 lines from the bottom.
- **p. 248:** The last lines of the page should read:

```
> prostate.pls <- plsr(class ~ msdata, ncomp = 16,
+ data = prostate.df, subset = odd,
+ validation = "CV", scale = TRUE)</pre>
```

p. 271: The signal package was mistakenly omitted from the list of R packages in the appendix.