Introduction to Scientific Programming and Simulation Using R

Errata as of 28 November 2013

The following errata were present in early printings but later corrected.

p17 l5 "[1] 3 4 4" should be "[1] 2 4 4"

p21 l1 "an subset" should be "subset"

p30 l17 "`show(x)`" should be "`print(x)`"

p63 l-3 "If fact" should be "In fact"

p64 l6 The parenthetical statement is incorrect and should be ignored (SE).

p152 l1 "$37 - 255 = -218$" should be "$37 - 127 = -90$"

p152 l22, 24 Insert $\pm$ before d_0 in $x = d_0.d_1d_2\cdots$ and before b_0 in $x = b_0.b_1b_2\cdots$

p175 l6 "$\epsilon/f'(a)$" should be "$\epsilon/|f'(a)|$"

p189 l23 "Simpon's" should be "Simpson's"

p211 l3 should be "`# g(a.l) <= g(a.m) and g(a.m) >= g(a.r)`"

p211 l26 "`return(x - a.max*y)`" should be "`return(x + a.max*y)`"

p222 l31 If you wish to subsequently add points and lines to a contour plot, then it is much easier if you use `contour` rather than `contourplot`

p239 l7 "$5 \times 0.0625 = 0.3125$" should be "$1 - (15/16)^5$"

p333 l1 "In R the command `set.seed(seed)` puts you at point `seed` (assumed integer) on the cycle of pseudo-random numbers." should be "For a given value of `seed` (assumed integer), the command `set.seed(seed)` always puts you at the same point on the cycle of pseudo-random numbers."

p338 l16 "$F_X(x) = 2(x - 1)$" should be "$F_X(x) = (x - 1)/2$"

p365 l12 The sum should be divided by $2n$

p371 l6 "$\sqrt{2}\arctan\left(\frac{x}{2}\right)$" should be "$\sqrt{2}\arctan\left(\frac{x}{\sqrt{2}}\right)$"

p374 l10 "`theta_hat`" should be "`matrix(theta_hat, n, N, byrow=TRUE)`"

p397 l10 "$I(u)(v - u)$" should be "$hI(u)(v - u)$"

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p444 l28 "`colour() or color()`" should be "`colours() or colors()`"

Here are errata discovered since those above were corrected, and thus present in all printings.

p45 l2 The harmonic mean is $n/\sum_{i=1}^{n} 1/x_i$ (JL)

p68 l21 "8" should be "9"

p75 Table 5.2 Replace `nfactorial` with `nfact2` throughout

p107 Exercise 6.5 The third column of the data is the 'off': the time the race starts. The data then comes in pairs (p_i, t_i). (GH)

p200 l7 a better example is $I = \int_0^1 5x^4\,dx = 1$

p208 l8 "the slope at $\mathbf{x}$" should be "the curvature at $\mathbf{x}$"

p301 l-7 "first" should be "k-th"

p327 l-10 X_n should not be bold

p429 l-5 ...where $Z_i \in \{0, 1/2, 1\}$ is half the number of crossings...

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