Errata

Spatial Point Patterns: Methodology and Applications with R Baddeley, Rubak and Turner

- 1. Page 67, line 3 from bottom: In recent versions of the software, package="spatstat" needs to be replaced by package="spatstat.data".
- 2. Page 68, line 4: likewise.
- 3. Page 68, line 6 from bottom: likewise.
- 4. Page 115, line 4 from bottom: the code should read

$$> Y \leftarrow eval.im(Z + 10)$$

- 5. Page 151. Reference to Bartlett [83] should be Bartlett (1964) as listed below. (Also on pages 159, 189 and 210).
- 6. Page 159. Reference to [83] should be Bartlett (1964) as listed below.
- 7. Page 169, equation (6.9), the edge correction that we called "Diggle's correction" was first proposed by Jones (1993) and should be called the "Jones-Diggle correction". See also Diggle (2010), equation (18.9).
 - Diggle, P.J. (2010) Nonparametric methods. Chapter 18, pp. 299–316 in A.E. Gelfand,
 P.J. Diggle, M. Fuentes and P. Guttorp (eds.) Handbook of Spatial Statistics, CRC Press.
 - Jones, M.C. (1993) Simple boundary corrections for kernel density estimation. *Statistics and Computing* **3**, 135–146.
- 8. Page 189. Reference to [83] should be Bartlett (1964) as listed below.
- 9. Page 191, line 14: website statscan.org should read satscan.org
- 10. Page 210. Reference to [83] should be Bartlett (1964) as listed below.
- 11. Page 229, equation (7.30), the right hand side should be multiplied by |W|/(n(n-1)), so that the equation reads

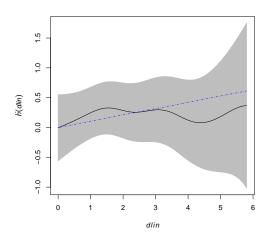
$$\widehat{g}(r) = \frac{|W|}{2\pi n(n-1)} \sum_{i=1}^{n} \sum_{\substack{j=1 \ j \neq i}}^{n} \frac{\kappa_h(r - d_{ij})}{d_{ij}} e_{ij}(r)$$

- 12. Page 261, line 2 of text: tile.index should be tileindex.
- 13. Page 308, Figure 9.3 caption: in the caption for the right panel, the name code should be fit.
- 14. Page 325, line 6–7 from bottom: the estimates of the coefficients in (9.27) are $\mu = -6.0184$, $\beta = -0.2047$, $\alpha_{\text{FALSE}} = 0$, $\alpha_{\text{TRUE}} = 2.0013$, $\gamma_{\text{FALSE}} = 0$ and $\gamma_{\text{TRUE}} = 0.1674$.

- 15. Page 344, lines 6–7: $\boldsymbol{\theta}$ and $\boldsymbol{Z}(u)$ should be column vectors.
- 16. Page 374, in equation (10.3), I_{θ} should be I_{θ_0} .
- 17. Page 365: Code for local likelihood is in a separate package spatstat.local.
- 18. Page 376, third displayed equation should read

$$Z_2 = \sqrt{\frac{12}{n}} \left(\sum_i u_i - \frac{n}{2} \right).$$

- 19. Page 480: Code for locally fitted Cox and cluster process models is provided in a separate package spatstat.local. The relevant functions are loccit and locmincon instead of lockppm.
- 20. Page 485, line 8: "stationary point" should be "stationary point process"
- 21. Page 521, line 7: the fraction of contested area is $-C(u, \boldsymbol{x})$, not $C(u, \boldsymbol{x})$.
- 22. Page 535: temper should be rtemper.
- 23. Page 542: Figure 13.33 is incorrect; the correct figure is shown below. The figure in the book was produced by parres(copfit, dlin) (as stated correctly in the text) but this should have been parres(copfit, "dlin").



24. Page 544: A term has been omitted in equations (13.55) and (13.57). The right hand side of (13.55) should include the additional term

$$+\sum_{i=1}^{n} \left[\boldsymbol{Z}(x_i \mid \boldsymbol{x} \cup \{u\}) - \boldsymbol{Z}(x_i \mid \boldsymbol{x}) \right]$$

and the right hand side of (13.57) should include

$$+ \sum_{j=1}^{n} \left[\boldsymbol{Z}(x_j \mid \boldsymbol{x}) - \boldsymbol{Z}(x_j \mid \boldsymbol{x} \setminus \{x_i\}) \right].$$

- 25. Page 546: Code for local likelihood is in a separate package spatstat.local.
- 26. Page 578, line 5: plot(ProbU) should be plot(ProbD).
- 27. Page 786, reference [643]: volume number is 62.
- 28. The new package local for local likelihood, mentioned in Sections 9.13, 12.5 and 13.11, has been renamed spatstat.local. It is available on CRAN.

References

Bartlett, M.S. (1964) The spectral analysis of two-dimensional point processes. *Biometrika* **51** (1964) 299–311.

Acknowledgements

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