Errata for “Stochastic Modelling for Systems Biology, second edition”

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This is the errata for the book Stochastic Modelling for Systems Biology, second edition, published by Chapman & Hall/CRC, November 2011. Note that there is a separate errata for the first edition. I will update this as I (or others) spot errors, so please check regularly. I will update the date (above) with each new issue. If you have found an error not listed below, then please email me at darren.wilkinson@ncl.ac.uk with page number and details.

You can get the latest version of this errata from:
http://www.staff.ncl.ac.uk/d.j.wilkinson/smfsb/2e/errata2e.pdf

- p.32,l.-5. Replace the text:

It is fairly clear that the dimension of the image-space and null-space must sum to the dimension of the space being mapped into, which is the number of rows of the matrix. So, if we fix on $S$, which has dimension $u \times v$, suppose the rank of the matrix is $k$. Let the dimension of the null-space of $S$ be $p$ and the dimension of the null-space of $A(= S^T)$ be $t$.

with the text:

By the rank-nullity theorem, the dimension of the image-space and null-space must sum to the dimension of the space being operated on, which is the number of columns of the matrix. So, if we fix on $S$, which has dimension $u \times v$, suppose the rank of the matrix is $k$. Let the dimension of the null-space of $S$ be $p$ and the dimension of the null-space of $A(= S^T)$ be $t$.

Thanks to Ragesh Kumar Ramachandran for spotting this issue.

- p.157,l.13. The three “2”s that occur in the expression should all be “3”s, as it represents the third-order term in the Taylor expansion. Thanks to Mark Girolami for pointing out this typo.

- p.164,l.12. The equation should read:

$$dY_t = \mu \left( \frac{2\lambda}{\mu} - Y_t \right) dt + \sqrt{\mu} \sqrt{Y_t} dB_t.$$

Thanks to Silvia Calderazzo for this correction.

- p.294,l.–6. Item 6. The condition should be “$t < T$”, not “$t < M$”.

- p.306,l.–7. There is a prime (’) missing from the second $k'$.