



## Global Sensitivity Analysis - The Primer

Saltelli, A., Ratto, M., Andres, T., Campolongo, F., Cariboni, J., Gatelli, D. Saisana, M., and Tarantola, S., 2008, John Wiley & Sons (ISBN: 978-0-470-05997-5)

## ERRATA CORRIGE

(update Feb 2<sup>nd</sup>, 2015)

### Chapter 1

Page 16, Table 1.1 third column: the values of  $(S_{z_i}^\sigma)^2$  are 0.033, 0.133, 0.300, 0.533.

Page 18, Table 1.2: it is not  $\Omega = (4,3,2,1)$  but  $\Omega = (1,2,3,4)$ .

Page 30, not numbered formula: it is  $\Omega_i$  instead of  $\Omega_j$

Page 36, formula 1.45: it is  $S_{\Omega,Z} = 1 - S_\Omega - S_Z$

Page 47, second formula, right-hand side: it is not  $\frac{\sqrt{\pi}}{4}$  but  $\frac{\sqrt{\pi}}{4\sqrt{a^3}}$ .

### Chapter 4

Page 165: the correct formulas are:

$$S_i = \frac{V[E(Y | X_i)]}{V(Y)} = \frac{\frac{1}{N} \sum y_A^{(j)} y_{C_i}^{(j)} - \frac{1}{N^2} \sum y_A^{(j)} \sum y_B^{(j)}}{\frac{1}{N} \sum (y_A^{(j)})^2 - f_0^2} \quad (4.21)$$

$$S_{Ti} = 1 - \frac{V[E(Y | \mathbf{X}_{-i})]}{V(Y)} = 1 - \frac{\frac{1}{N} \sum y_B^{(j)} y_{C_i}^{(j)} - f_0^2}{\frac{1}{N} \sum (y_A^{(j)})^2 - f_0^2} \quad (4.23)$$

Page 168, in the RBD code:

spectrum=(abs(fft(yr))).^2/N should be: spectrum=(abs(fft(yr))/N).^2

Page 171, Table 4.1: the first order indices for factors gamma and k are both 0.43 and the total effects are both 0.58. The values tabulated in the book were obtained at smaller sample size than the one indicated, hence far from convergence.