Erratum: Correlation Dimension for Paired Discrete Time Series[1]

Alessandra Celletti,[2] Victoria M. Bajo Lorenzana,[3] and Alessandro E. P. Villa[4]

The curves of Fig. 2a in this paper were not printed correctly. The correct Fig. 2 and legend are given here.

Fig. 2. Single unit activity of a triplet of cells in the auditory thalamus during evoked activity. Row and column numbers indicate the cell label. The number of points in the time series and the average firing rate (spikes/s) for the cells are the following: cell 1 (3270, 8.2); cell 3 (3178, 7.9); cell 4 (2655, 6.6). (a) Time domain analysis. The panels on the diagonal correspond to the peri-stimulus time histograms with time (ms) vs. instantaneous firing rate (spikes/s) scaled as in ref. 1. The remaining panels refer to the crosscorrelograms. The ordinate corresponds to the instantaneous firing rate of the follower cell (column number) at variable delays before (negative times on the abscissa, up to -100 ms) and after (positive times, up to 100 ms) the firing of the trigger cell (row number). Curves were smoothed using a Gaussian convolution with a bin size equal to 2.5 ms. Broken lines indicate the upper 99% confidence limit. (b) Dynamical system analysis. The correlation integrals which refer to one cell (single time series) form the panels on the diagonal and are plotted for $d = 1,..., 8$. The remaining curves refer to two spike trains recorded simultaneously and the curves are plotted for $d = 2,..., 8$. In case of significant deterministic dynamics, i.e. for cell (4) and pairs (1;4) and (3;4), the scaling region (for $d = 6,..., 8$) is marked by a thick line on the abscissa.

[2] Dipartimento di Matematica, Università di L'Aquila, I-67100 L'Aquila, Italy.
[3] Departamento de Biología Celular y Patología, Universidad de Salamanca, E-37007 Salamanca, Spain.
[4] Institut de Physiologie, Université de Lausanne, CH-1005 Lausanne, Switzerland.