Erratum: A single theoretical framework for circular features processing in humans: orientation and direction of motion compared

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A commentary on

A single theoretical framework for circular features processing in humans: orientation and direction of motion compared

by Tzvetanov, T. (2012). Front. Comput. Neurosci. 6:28. doi: 10.3389/fncom.2012.00028

In the article *A single theoretical framework for circular features processing in humans: orientation and direction of motion compared* (Tzvetanov, 2012, Front. Comput. Neurosci. 6:28. doi: 10.3389/fncom.2012.00028) a presentation error occurred concerning the equations defining a and w within the text (subsection 4.4, page 9).

The sentence on page 9, subsection 4.4:

The priors on the three parameters were: l - beta probability distribution with parameters Beta (1.1, 20); μ - normal probability distribution with parameters Norm $(a, 10w)$ with a and w being the mean and standard deviation obtained from each experimental data set $\{x_i, p_i\}$ $(a = \sum p_i x_i$ and $w = \sqrt{\sum p_i(x_i - a)^2})$; σ - gamma probability distribution with parameters Gamma (a_G, b_G) fixed at $a_G = 1 + w/b_G$ and $b_G = (\sqrt{5} - 1)w/2$ such that the mode and variance of the Gamma distribution is w.

must be replaced by:

The priors on the three parameters were: l - beta probability distribution with parameters Beta (1.1, 20); μ - normal probability distribution with parameters Norm $(a, 10w)$ with a and w being the mean and standard deviation obtained from each experimental data set $\{x_i, n_i, y_i\}$ as follows: $a = \sum q_i x_i$, $w = \sqrt{\sum q_i(x_i - a)^2}$, and $q_i = n_i / \sum_i n_i$; σ - gamma probability distribution with parameters Gamma (a_G, b_G) fixed at $a_G = 1 + w/b_G$ and $b_G = (\sqrt{5} - 1)w/2$ such that the mode and variance of the Gamma distribution is w.