CORRECTION

Correction: Robust CPD Algorithm for Non-Rigid Point Set Registration Based on Structure Information

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A month before publication of this *PLOS ONE* article [1], the authors published a closely related study in the *Journal of Electronics and Information Technology (JEIT)*, titled, “Non-rigid Point Set Registration Based on Neighbor Structure and Gaussian Mixture Models” [2]. This second article was not cited or discussed in the *PLOS ONE* article.

The authors provide the following clarification regarding the relationship between work reported in these articles:

The *JEIT* article described how to use neighbor structure information and Gaussian Mixture Models (GMM) to process the problem of point set registration [2]. The *PLOS ONE* article described the improvement of Coherent Point Drift by adaptive proportion of each GMM component and automatic outlier processing [1]. The implementation methods and the programming codes are different in the two articles, as are the membership probabilities of GMM components, the methods of calculating parameter “ v ”, and the experimental results.

The authors also note that there is some overlap in text and equations reported in these two articles, for which the *JEIT* article was not appropriately cited. These are described in the following table:

	in the <i>JEIT</i> article [2]	in the <i>PLOS ONE</i> article [1]
1	Paragraph 1 of Section 2	Paragraph 1 of Section 2.1 Structure descriptor.
2	Paragraph 1 of Section 3	Paragraph 2 of Section 1.1 Coherent Point Drift algorithm.
3	Paragraph 2 of Section 4	Paragraph 3 of Section 2.2 Outliers processing and the EM solution.
4	Eq (1)	Eq (7)
5	Eq (7)	Eq (3)
6	Eq (8)	Eq (10)
7	Eq (10)	Eq (9)
8	Eq (12)	Eq (12)
9	Eq (13)	Eq (13)
10	Eq (14)	Eq (14)

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As noted above, there are 10 items of overlap, all related to the Methods. The first item and the fourth item discuss the Shape Context [3] used to represent the structure information of the point set. The second and from the fifth to the eighth items describe the Gaussian GMM [4] which is used to process the problem of point set registration. The third, the ninth and the tenth items describe the calculation of the outlier ratio.

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