

## ERRATA to

*Constrained Manifold Learning for the Characterization of Pathological Deviations from Normality*  
 Duchateau N, De Craene M, Piella G, Frangi AF. Medical Image Analysis, 16(8):1532-1549, 2012.

## PUBLISHED VERSION:

We created a three dimensional dataset of 1000 points, arranged according to a 2D structure in the 3D space (swiss roll, Fig. 7), defined as:

$$\begin{cases} I_{i,1} = \cos(3\pi/2 \cdot (1 + 2x_{i,1})), \\ I_{i,2} = \sin(3\pi/2 \cdot (1 + 2x_{i,2})), \\ I_{i,3} = x_{i,2} \in [0, 20], \end{cases} \quad (1)$$

$(I_{i,1}, I_{i,2}, I_{i,3}) = \mathbf{I}_i$  referring to a point in the 3D space, obtained from the coordinate  $(x_{i,1}^{GT}, x_{i,2}^{GT}) = \mathbf{x}_i^{GT}$ , randomly generated from a uniform distribution.

## SHOULD BE INSTEAD:

We created a three dimensional dataset of 1000 points, arranged according to a 2D structure in the 3D space (swiss roll, Fig. 7), defined as:

$$\begin{cases} I_{i,1} = (1 + 2x_{i,1}) \cdot \cos(3\pi/2 \cdot (1 + 2x_{i,1})), \\ I_{i,2} = (1 + 2x_{i,1}) \cdot \sin(3\pi/2 \cdot (1 + 2x_{i,1})), \\ I_{i,3} = x_{i,2}, \end{cases} \quad (2)$$

with  $x_{i,1} \in [0, 1]$  and  $x_{i,2} \in [0, 20]$ ,

$(I_{i,1}, I_{i,2}, I_{i,3}) = \mathbf{I}_i$  referring to a point in the 3D space, obtained from the coordinate  $(x_{i,1}^{GT}, x_{i,2}^{GT}) = \mathbf{x}_i^{GT}$ , randomly generated from a uniform distribution.

```

1  clc ;
2  clear all ;
3  close all ;
4
5  Nk = 1000;
6
7  X1 = sort(rand(Nk,1));
8  X2 = 20*rand(Nk,1);
9
10 tmp = (1+2*X1);
11 I1 = tmp.*cos(3*pi/2 * tmp);
12 I2 = tmp.*sin(3*pi/2 * tmp);
13 I3 = X2;
14
15 A = colormap(jet(Nk));
16
17 figure ;
18 for k=1:Nk
19     plot3(I1(k),I2(k),I3(k),'.','Color',A(k,:)); hold on;
20 end
21 axis square;
22 grid on;
23 view(-60,80);

```