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Towards the Analysis of Movement Variability of Facial Expressions with Nonlinear Dynamics

CERE 2018

4-5 April 2018

Miguel P Xochicale

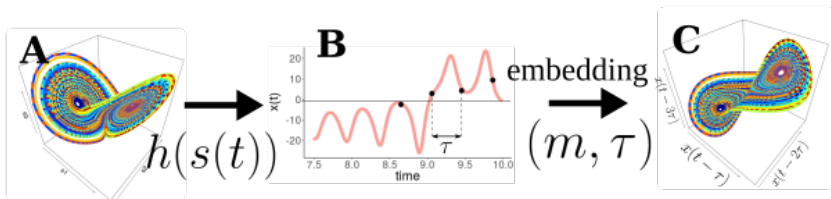
School of Engineering
University of Birmingham



MOVEMENT VARIABILITY

TIME VARYING FACIAL EXPRESSIONS

STATE SPACE RECONSTRUCTION



EXPERIMENT

TODO LIST

1. 1
2. 2
3. 3

BIBLIOGRAPHY



Jostine Ho

»Facial Emotion Recognition«

GitHub repository (2016), <https://github.com/JostineHo/mememoji> [↻]

Towards the Analysis of Movement Variability of Facial Expressions with Nonlinear Dynamics

🐦@LibrERobotics #DeepLearning

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Equations :

$$\begin{aligned} \dot{x} &= yz \\ \dot{y} &= -xz \\ \dot{z} &= xy \end{aligned}$$

Definitions :

α, β, γ = equation parameters
 x, y, z = 3D coordinate
 t = time

Parameters :

$\alpha = 38$
 $\beta = 8/3$
 $\gamma = 80$

The Qi - Chen Attractor



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