Nonlinear Dynamics: Mathematical and Computational Approaches

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Quiz scores are NOT recorded.

- You may come back to quizzes and take them as many times as you like
- When you are finished, clicking the "Score" button at the bottom of the test will show you the correct responses.

Question 1

The Farmer/Sidorowich filtering strategy leverages the stable and unstable manifold structure of the attractor to remove noise from a chaotic trajectory.

✔ A. True

B. False

Question 2

Low-pass filtering of chaotic systems is a bad idea because it can remove signal, not just noise.

✔ A. True

B. False

Question 3

The following topology-based approaches can be used to identify noisy points in a trajectory from a dynamical system:

(a)

If the forward images of two nearby points are not close, one of those points may have been perturbed by noise.

✔ A. True

B. False

(b)

If the attractor contains "isolated points," they may be the result of noise.

✔ A. True

B. False

You got 4 out of 4 questions correct Reset