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Permutation Complexity In Dynamical Systems

The study of permutation complexity can be envisioned as a new kind of symbolic dynamics whose basic blocks

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are ordinal patterns, that is, permutations defined by the order relations among points in the orbits of dynamical systems.

Permutation Complexity in Dynamical Systems: Ordinal

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Permutation Complexity in Dynamical Systems | SpringerLink

The coupling complexity index is an information measure introduced within the framework of ordinal symbolic dynamics. This index is used to characterize the complexity of the relationship between dynamical system components. In this work, we clarify the meaning of the coupling complexity by discussing in detail some cases

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Permutation complexity of interacting dynamical systems

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The characterization of complex dynamical systems is a relevant topic arising in different fields of research. This kind of systems are often composed of a large number of interacting components, thus the dynamical behavior may depend on many degrees of freedom. Complex systems display a variety of interesting phenomena, e.g.

Permutation complexity of interacting dynamical systems
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Dynamical Systems : Ordinal Patterns, Permutation Entropy and All That.. [José Amigó] -- The study of permutation complexity can be envisioned as a new kind of symbolic dynamics whose basic blocks are ordinal patterns, that is, permutations defined by the order relations among points in ...

Permutation Complexity in Dynamical Systems : Ordinal ...

Permutation Complexity in Dynamical Systems: Ordinal Patterns, Permutation Entropy and All That, Springer Series in Synergetics. ISBN 978-3-642-04083-2. Springer-Verlag Berlin Heidelberg, 2010

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Permutation Complexity in Dynamical Systems

Permutation complexity of interacting dynamical systems
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(PDF) Permutation complexity of interacting dynamical systems

This index is used to characterize the complexity of the relationship between dynamical system components. In this work, we clarify the meaning of the coupling complexity by discussing in detail some cases leading to extreme values, and present examples using synthetic data to describe its properties.

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Permutation complexity of interacting dynamical systems

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Permutation Complexity In Dynamical Systems Ordinal ... ics, dynamical systems, computer science, and cellular automata. Ordinal patterns and permutation entropy make their first appearance in the second section,

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together with the forbidden patterns, one of the main characters of permutation complexity. Once the stage has been set, Chap. 2 is a brief account on a few applications of ordinal analysis.

Permutation Complexity in Dynamical Systems: Ordinal

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Get this from a library! Permutation complexity in dynamical systems : ordinal patterns, permutation entropy and all that. [José María Amigó] -- The study of permutation complexity can be envisioned as a new kind of symbolic dynamics whose basic blocks are ordinal patterns, that is, permutations defined by the order relations among points in ...

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Permutation complexity in dynamical systems : ordinal ... topological entropy of f (an important measure of complexity) is equal to $\log(k)$. Following this result, permutation-based techniques have become an important way of measuring the complexity of time-series [12]. However, the question of understanding permutations in dynamical systems was intro-

PATTERNS AND CYCLES IN DYNAMICAL SYSTEMS

In this paper, we proposed a new measure of complexity for coupling among multiple time series called partially ordered permutation complexity C_p . It is based on the intersection of ordinal L -patterns regarded as total

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orders which yields an integrated symbol for the whole system (a partial ordinal L -pattern) that is in general a partial order.

Partially ordered permutation complexity of coupled time

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This thesis is devoted to the investigation of complexity measures for dynamical systems and for time series. The central concepts throughout the thesis are the permutation entropy and an estimate ...

(PDF) Investigating measures of complexity for dynamical ...

We introduce complexity parameters for time series

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based on comparison of neighboring values. The definition directly applies to arbitrary real-world data. For some well-known chaotic dynamical systems it is shown that our complexity behaves similar to Lyapunov exponents, and is particularly useful in the presence of dynamical or observational noise.

[PDF] Permutation entropy: a natural complexity measure

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Permutation entropy — a natural complexity measure for time series ... Kolmogorov–Chaitin algorithmic complexity to orbits of dynamical systems [7–9]. Our approach. We go another way, defining simple ... permutation entropy of order $n = 2$ as a measure of the

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Permutation entropy — a natural complexity measure for

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Permutation complexity via duality between values and orderings
Permutation complexity via duality between values and orderings
Haruna, Taichi; Nakajima, Kohei
2011-08-15 00:00:00 We study the permutation complexity of finite-state stationary stochastic processes based on a duality between values and orderings between values. First, we establish a duality between the set of all words of a ...

Permutation complexity via duality between values and ...
In particular, AE is limited to the quantification of the

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complexity of a signal generated by a low-dimensional dynamical system. Recently, a new method, called permutation entropy (PE), was proposed as a complexity measure of nonlinear and linear time series, 15 e.g. , epileptic electroencephalographic series 16 and anesthetic ...

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