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

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blocks are ordinal patterns, that is, permutations defined by the order relations among points in the orbits of dynamical systems. Since its inception in 2002 the concept of permutation entropy has sparked a new branch of research in particular regarding the time series analysis of dynamical systems that capitalizes on the order structure of the state space.

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**Permutation
Complexity in
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[(Permutation
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Ordinal ...**

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permutation
complexity from the
viewpoint of discrete-
time dynamical
systems. In particular,
permutation

permutation
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complexity refers to
the dynamical features
captured and
quantified by tools
based on order
relations. Permutation
entropy was introduced
in 2002 by C. Bandt
and B. Pompe as a
measure of complexity
in time series. In a
nutshell, permutation

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entropy replaces

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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

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

Here we investigate the complexity of temporal gene expression patterns using the concept of Permutation Entropy (PE) first introduced in dynamical systems theory. The analysis of gene expression data has so far focused primarily on the

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identification of
differentially expressed
genes, or on the
elucidation of pathway
and regulatory
relationships.

Entropy And All

**The complexity of
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dynamics revealed
by ...**

Permutation transition
entropy: Measuring the
dynamical complexity
of financial time series
1. Introduction. The
topic of how to define

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the complexity of a system is a deep convoluted question with many possible... 2. Methodology. We first retrospect the PE measure. Let $\{x_t\}_{t \in Z, t \leq T}$ be a ...

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Measuring the
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Permutation entropy: a natural complexity measure for time series. We introduce

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[PDF] Permutation
entropy: a natural
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complexity parameters
for time series based
on comparison of
neighboring values.

The definition directly
applies to arbitrary real-
world data.

**[PDF] Permutation
entropy: a natural
complexity measure**

...

The permutations
realized by one-
dimensional dynamical
systems give insight
into their short-term

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behavior and provide a
way of understanding
the system's
Ordinal
complexity.
Patterns

**PATTERNS AND
CYCLES IN
DYNAMICAL
SYSTEMS**

Permutation entropy: a
natural complexity
measure for time
series. We introduce
complexity parameters
for time series based
on comparison of
neighboring values.

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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

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entropy: a natural complexity measure for time ...

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interacting dynamical
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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.

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EPJ manuscript No. (will

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editor) Permutation

complexity of

interacting dynamical

systems Roberto

Monetti^{1;a}, Jos e Mar a

Amig o², Thomas

Aschenbrenner¹, and

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Amigó, José ; Abstract.

Publication:

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Systems, Ordinal
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Complexity in

**Dynamical Systems -
NASA/ADS**

The permutation

entropy of order L is

defined as [1] (2) $H(\Pi) =$

$-\sum \pi p(\pi) \log_2 p(\pi)$, where

we omit the

normalization constant.

2.2. Transcript and
coupling complexity.

An ordinal L -pattern π is
a permutation on the

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set $\{0,1,\dots,L-1\}$ and
can be seen as an
element of the
symmetric group S_L of
order L , $(3)\pi = [\pi_0, \pi_1, \dots,$
 $\pi_{L-1}] = 01\dots$

**Partially ordered
permutation
complexity of
coupled time ...**

PE refers to the local
order structure of the
time series, which can
give a quantitative
complexity measure
for a dynamical time

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series. Mathematical details of the PE can be found in the references. 15,32-34 Permutation entropy calculation depends on the selection of time interval N and embedding dimension m .

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