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The analysis of recurrences in dynamical systems by using recurrence plots and their quantification is still an emerging field. Over the past decades recurrence plots have proven to be valuable data visualization and analysis tools in the theoretical study of

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disciplines.

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Recurrence Theory

quantification analysis

(RQA) is a method of

nonlinear data analysis

(cf. chaos theory) for

the investigation of

dynamical systems. It

quantifies the number

and duration of

recurrences of a

dynamical system

presented by its phase

space trajectory.

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analysis - Wikipedia

Abstract. In this paper,

we propose a new
method of multiscale
recurrence

quantification analysis

(MSRQA) to analyze

the structure of order

recurrence plots. The

MSRQA is based on

order patterns over a

range of time scales.

Compared with

conventional

recurrence

quantification analysis

(RQA), the MSRQA can

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show richer and more
recognizable
information on the
local characteristics of
diverse systems which
successfully describes
their recurrence
properties.

**Multiscale
recurrence
quantification
analysis of order ...**

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Quantification Analysis

- The recurrence

quantification analysis

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(RQA) is a method of nonlinear data analysis which quantifies the number and duration of recurrences of a dynamical system presented by its state space trajectory. A quantification of recurrence plots was developed by Zbilut and Webber Jr. (Zbilut and Webber Jr., 1992; Webber Jr. and Zbilut, 1994) and extended with new measures of complexity by Marwan

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RECURRENCE

PLOTS::Recurrence

Quantification

Analysis ...

termed as Recurrence
Quantification Analysis

(RQA) [17]. RQA is a
quantitative analysis
method, which

quantifies the small
scale structures

detected in RP. The
eight parameters

yielded from RQA are:

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Rate(RR): RR is the % of the plot occupied by the recurrence points.

The more periodic the signal, higher is the %RR value.

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Analysis of Human

Gait in ...

Recurrence analysis is an advanced technique for nonlinear data analysis used to identify the general structure, non-

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stationarity, and hidden recurring elements in a time series. Differently from traditional time series techniques that previously assume the nature of the series, the recurrence analysis can be conceived as a diagnostic tool which provides an exploratory analysis identifying the structure of the series.

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QUANTIFICATION

ANALYSIS (RQA) is a powerful analytical tool developed over the last decade for the study of nonlinear dynamical systems. RQA is the necessary extension of recurrence plot analysis (RPA), a more qualitative tool. Since RQA methodology is independent of limiting

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constraints such as data set size, data stationarity, and assumptions regarding statistical distributions of data, RQA seems ideally suited for physiological systems characterized by non-homeostatic transients

Charles L. Webber, Jr.

The most common quantification variables are %recurrence, describing the relative

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amount of recurrence present in the plot of all possible recurrences (see Figure 1), and

%determinism

describing the percentage of recurrence points that are part of diagonal lines.

Frontiers | Use of Recurrence

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Analysis to ...

Recurrence is a fundamental property

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of dynamical systems,
which can be exploited
to characterise the
system's behaviour in
phase space. A

powerful tool for their
visualisation and
analysis called

recurrence plot was
introduced in the late
1980's.

Recurrence plots for the analysis of complex systems ...

The analysis of
recurrences in

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dynamical systems by using recurrence plots and their quantification is still an emerging field. Over the past decades recurrence plots have proven to be valuable data visualization and analysis tools in the theoretical study of complex, time-varying dynamic...

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30 aperiodic fashion

over different time

scales (long-periods,

large amplitudes; short-

periods, small

amplitudes). To

capture the

fundamental notion of

recurrence, a dot is

placed on every wave

of the time series that

is exactly 0.9 ft in

height.

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Chapter 2.
Recurrence Theory
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Analysis of
Nonlinear ...

Functions include: (1) %Estimates the time delayed mutual information of the data set. (2) %Determines the fraction of false nearest neighbors. (3) produce a recurrence plot of the, possibly multivariate, %data set. That means, for each point in the data

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**Tool box of
recurrence plot and
recurrence**

quantification ...

Linear heart rate
variability (HRV)

indices are dependent
on the mean heart
rate, which has been
demonstrated in
different models (from
sinoatrial cells to
humans). The
association between
nonlinear HRV indices,

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including those provided by recurrence plot quantitative analysis (RQA), and the mean heart rate (or the mean cardiac period, also called meanNN) has been scarcely studied.

Association between Mean Heart Rate and Recurrence ...

The analysis of recurrences in dynamical systems by using recurrence plots

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and their quantification is still an emerging field. Over the past decades recurrence plots have proven to be valuable data visualization and analysis tools in the theoretical study of complex, time-varying dynamical systems as well as in various applications in biology, neuroscience, kinesiology, psychology, physiology

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quantification

analysis : theory and best ...

In descriptive statistics and chaos theory, a recurrence plot (RP) is a plot showing, for each moment i in time, the times at which a phase space trajectory visits roughly the same area in the phase space as at time j . In other words, it is a graph of $\{ \}$

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$\{\vec{x}\} (i) \approx$
 $\{\vec{x}\} (j),$

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