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is still an emerging
field. Over the past
decades recurrence
plots have proven to
be valuable ...

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and ...**

Recurrence

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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**Recurrence Theory
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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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complex, time-varying
dynamical systems as

well as in various

applications in biology,

neuroscience,

kinesiology,

psychology, physiology

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Abstract. The analysis

of recurrences in

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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 ...

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recurrence plots
website. Definition.

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Quantification Analysis
- The recurrence quantification analysis (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.

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well as in various...
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quantification analysis

(RQA) focuses on

derived measures of

the principle structural

elements evident in

RPs; that is, the

diagonal, vertical, and

horizontal lines formed

by successive

recurrent points, i.e.,

the black dots in

recurrence plots.

Recurrence

quantification

analysis to

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characterize ...

crqa: Recurrence
Quantification Analysis
for Categorical and
Continuous Time-Series
Auto, Cross and Multi-
dimensional recurrence
quantification analysis.
Different methods for
computing recurrence,
cross vs.
multidimensional or
profile it.i.e., only
looking at the diagonal
recurrent points, as
well as functions for
optimization and

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plotting are proposed.

crqa: Recurrence Quantification Analysis for Categorical ...

Recurrence analysis is an advanced technique for nonlinear data analysis used to identify the general structure, non-stationarity, and hidden recurring elements in a time series. Differently from traditional time series

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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 ...

Recurrence Analysis: Method and Applications | SpringerLink

1 Mathematical and
Computational
Foundations of

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Quantifications 7 –25

20–30 30 7 45 ab Time

Time 5 10 15 25 5 10

15 20 25 Fig. 1.1 (a)

Segment of the phase
space trajectory of the

...

**Mathematical and
Computational
Foundations of
Recurrence ...**

C. Webber and N.

Marwan, Recurrence

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Practices (Springer, 2015). Because the VCG signal of one patient likely does not affect or interact with the VCG signal of another patient, the JRP may not be an appropriate means of bivariate analysis in this study.

Cross-recurrence analysis for pattern matching of ...

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 dynamical systems as well as in various applications in biology, neuroscience, kinesiology,

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psychology, physiology

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well as in various

applications in biology,

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Quantification Analysis (RQA) 1 can be utilized to understand temporal dynamics of behavioral sequences. Using eye movement behavior from different object tracking tasks, I will show how RQA quantifies dynamics such as general recurrence (%REC), and the extent to which a string of behaviors recurs over time (%DET), and is stable (%LAM).

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Quantification

**Recurrence Theory
Quantification
Analysis : Tutorial ...**

Recurrent

Quantification Analysis
(RQA) is a nonlinear
method for examining
patterns of recurrence.

RQA might provide a
unique method for the
EDX evaluation of
neuropathies. RQA was
used to analyze F-wave
recordings from the
abductor hallucis
muscle in 61 patients

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with neuropathies.

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Applications of
recurrence plots in
medicine have a long
tradition and were one
of the drivers of certain
developments, e.g.,
leading to the
recurrence

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quantification analysis. Therefore, there is no surprise that recurrence plot methods are widely applied for different medical purposes: to identify certain physiological or pathological states, e.g., voice disorder, 24 24.

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