

information-dynamics-toolkit



JIDT: Java Information Dynamics Toolkit for studying information-theoretic measures of computation in complex systems

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for

Demos

List of demonstration code sets distributed with the toolkit

Featured, examples

Updated Yesterday (23 hours ago) by [joseph.lizier](#)

Demos

Several sets of demonstration code are distributed with the toolkit. Links to their wiki pages and their location in the distribution are given below:

- [AutoAnalyser](#) -- demos/AutoAnalyser -- a GUI tool to compute transfer entropy on a chosen data set with the toolkit, and also automatically generate code in Java, Python and Matlab to show how to do this calculation with the toolkit.
- [SimpleJavaExamples](#) -- demos/java -- a set of basic examples using the Java toolkit;
- Several demo sets mirror the SimpleJavaExamples to demonstrate the use of the toolkit in non-Java environments:
 - [OctaveMatlabExamples](#) -- demos/octave -- basic examples on using the Java toolkit from Octave or Matlab environments;
 - [PythonExamples](#) -- demos/python -- basic examples on using the Java toolkit from Python using the JPyype interface;
 - [R_Examples](#) -- demos/r -- basic examples on using the Java toolkit from R using the rJava interface;
 - [JuliaExamples](#) -- demos/julia -- basic examples on using the Java toolkit from Julia;
 - [Clojure Examples](#) -- demos/clojure/examples -- basic examples on using the Java toolkit from Clojure;
- [SchreiberTeDemos](#) -- demos/octave/SchreiberTransferEntropyExamples -- using the toolkit to reproduce the transfer entropy examples originally included in Schreiber's 2000 paper introducing transfer entropy;
- [CellularAutomataDemos](#) -- demos/octave/CellularAutomata -- using the Java toolkit to plot local information dynamics profiles in cellular automata; the demo is run under Octave or Matlab;
- [DetectingInteractionLags](#) -- demos/octave/DetectingInteractionLags -- demonstration of using the transfer entropy with source-destination lags; the demo is run under Octave or Matlab;
- [InterregionalTransfer](#) -- demos/java/interregionalTransfer -- higher level example using collective transfer entropy to infer effective connections between "regions" of data;
- [NullDistributions](#) -- demos/octave/NullDistributions -- investigating the correspondence between analytic and resampled distributions for TE and MI under null hypotheses of no relationship; the demo is run under Octave or Matlab;

You can also review the [JUnitTestCases](#) -- the test cases for the Java toolkit included in the distribution -- these case also be browsed to see simple use cases for the toolkit.

Extras

You may also be interested in several [extra](#) features that the toolkit has (in addition to the information dynamics calculators); e.g. Octave text file format reading and writing, matrix manipulation, mathematical functions, etc.

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