Package: VisualDom (via r-universe)

October 26, 2026

Type Package

Title Visualize Dominant Variables in Wavelet Multiple Correlation

Version 0.8.0

Maintainer Josué M. Polanco-Martínez <josue.m.polanco@gmail.com>

Depends R (>= 3.6.0), waveslim, wavemulcor, plot3D

Description Estimates and plots as a heat map the correlation coefficients obtained via the wavelet local multiple correlation 'WLMC' (Fernández-Macho 2018) and the 'dominant' variable/s, i.e., the variable/s that maximizes the multiple correlation through time and scale (Polanco-Martínez et al. 2020, Polanco-Martínez 2022). We improve the graphical outputs of WLMC proposing a didactic and useful way to visualize the 'dominant' variable(s) for a set of time series. The WLMC was designed for financial time series, but other kinds of data (e.g., climatic, ecological, etc.) can be used. The functions contained in 'VisualDom' are highly flexible since these contains several parameters to personalize the time series under analysis and the heat maps. In addition, we have also included two data sets (named 'rdata_climate' and 'rdata_Lorenz') to exemplify the use of the functions contained in 'VisualDom'. Methods derived from Fernández-Macho (2018) <doi:10.1016/j.physa.2017.11.050>, Polanco-Martínez et al. (2020) <doi:10.1038/s41598-020-77767-8> and Polanco-Martínez (2023, in press).

License GPL (>= 2)

Encoding UTF-8

LazyData true

NeedsCompilation no

Repository https://jomopo.r-universe.dev

Date/Publication 2023-03-03 16:03:50 UTC

RemoteUrl https://github.com/jomopo/visualdom

RemoteRef HEAD

RemoteSha 922c79dc5f324664f84c7453fda762e50f878dcc