

2024 年度湖南省科学技术奖提名公示内容

项目名称：时间序列和复杂网络的多重分形分析及在数据处理中的应用

提名单位：湘潭大学

提名等级：湖南省自然科学奖一等奖或二等奖

代表作目录：

[1] Jin-Long Liu, Zu-Guo Yu, and Vo Anh, Determination of multifractal dimensions of complex networks by means of the sandbox algorithm, *Chaos*, 2015, 25: 023103.

[2] Yun-Lan Wei, Zu-Guo Yu, Hai-Long Zou, and Vo Anh, Multifractal temporally weighted detrended cross-correlation analysis to quantify power-law cross-correlation and its application to stock markets, *Chaos*, 2017, 27: 063111.

[3] Xian-Hua Xie, Zu-Guo Yu, Guo-Sheng Han, Wei-Feng Yang, and Vo Anh, Whole-proteome based phylogenetic tree construction with inter-amino-acid distances and the conditional geometric distribution profiles, *Molecular Phylogenetics and Evolution*, 2015, 89: 37-45.

[4] Qi Wu, Zu-Guo Yu, and Jianyi Yang, DLTREE: efficient and accurate phylogeny reconstruction using the dynamical language method, *Bioinformatics*, 2017, 33: 2214-2215.

[5] Shan Jiang, Zu-Guo Yu, Vo V. Anh, and Yu Zhou, Long- and short-term time series forecasting of air quality by a multi-scale framework, *Environmental Pollution*, 2021, 271: 116381.

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