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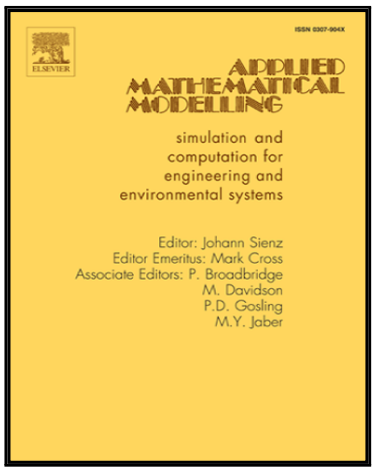

Cuckoo search-designated fractal interpolation functions with winner combination for estimating missing values in time series

Ping Jiang , Feng Liu , Jianzhou Wang , Yiliao Song

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Highlights

- DFIFs overcomes the deficiency of FIFs that cannot calculate a specified point's missing value.
- FIFs, an iterative function, is redesigned to a model (DFIFs) with parameters.
- Parameters of DFIFs are obtained using the cuckoo search algorithm.
- Three winners among CS-DFIFs and 3 interpolation models are combined.
- CS-DFIFs-WC outperforms benchmarks in 2 databases with 7 missing levels by 4 criteria.

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