Special Issue

Chaotic Dynamics of Environmental and Hydrological Time Series

Message from the Guest Editor

The basic objective of time series analysis is to understand the characteristics of the processes that generate the time series and to make future predictions as well as simulations under different scenarios. Such systems exhibit stable properties which are predictable at times but become “chaotic” under certain initial conditions. The first step in the analysis of chaotic dynamics is to establish whether a time series is in fact generated from a chaotic deterministic system which is done by estimating certain invariant measures such as the correlation dimension, Lyapunov exponent, Kolmogorov-Sinai (KS) entropy, capacity dimension, topological dimension, fractal dimension, Hausdorff dimension etc. This special edition on Chaotic Dynamics of Environmental and Hydrological Time Series aims to bring together latest developments in the understanding of chaotic dynamics with particular reference to prediction of environmental an hydrological time series.
Dr. Jayawardena Amithirigala W.

Guest Editor

Dr. Amithirigala Widhanelage Jayawardena
Department of Civil Engineering, The University of Hong Kong, Pokfulam, Hong Kong, China

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Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
applsci@mdpi.com

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Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32, 20133 Milano, Italy

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