Special Issue

Application of Information Measures for Analysis and Predictability of Renewable Energy Time Series

Message from the Guest Editors

Renewable energy is energy that is collected from carbon-free resources, which are naturally provided on a human time scale, such as solar radiation, wind, rain, tides, biomass, waves and geothermal heat. This energy often provides energy in four important areas: Electricity generation, air and water heating/cooling, transportation and energy for off-grid services, which can be either stand-alone power systems or mini-grids typically supplying a smaller community or small islands with electricity. In the past few decades, the renewable energy has become one of the attractors for policy makers and for the worldwide scientific community, both on a theoretical and practical level. The work on Renewable Energy includes three equally-important parts: (i) reliability of the measuring procedure, (ii) analysis of measured time series often carrying hidden physical information that cannot be established by traditional methods from different mathematical fields and (iii) predictability of the behavior of those time series, which are essentially connected.

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