



Special Issue on

Modern Nonlinear Dynamics of Renewable Energy Systems

Call for Papers

In general, power and energy systems are highly nonlinear dynamics systems. More than one decade ago, many researchers have approved that such systems are experiencing bifurcation and chaotic oscillations. For example, the nonlinear dynamics theory, including bifurcation, chaos theory and so on, is widespread applied on some parts of power and energy systems. On the other hand, there is an increasing interest for the use of renewable energy sources in the present energy context. And the nonlinear dynamic systems can be contributed to investigate the basically dynamical behaviors and synchronization problem of the renewable energy systems. As one of hottest and most crucial issue in modern human life, **modern nonlinear dynamics of renewable energy systems** are of great attractions to researchers.

In this special issue, we invite front-line researchers and authors to submit original research and review articles that explore **modern nonlinear dynamics of renewable energy systems**. In this special issue, potential topics include, but are not limited to:

The applications of bifurcation and chaos theory in renewable energy systems
The modeling and simulation of nonlinear models in renewable energy systems
Investigations on dynamical behaviors of renewable energy systems
Researches on the converter topology for renewable energy systems
The forecasting and prediction of renewable energy systems using nonlinear dynamic theory
The energy transfer in renewable energy systems
Instrumentation and Control of renewable energy systems
Energy Efficiency in renewable energy systems

Authors should read over the journal's [Authors' Guidelines](#) carefully before submission. Prospective authors should submit an electronic copy of their complete manuscript through the journal's [Paper Submission System](#).

Please kindly note that the “**Special Issue**” under your manuscript title should be specified and the research field “**Special Issue - Modern Nonlinear Dynamics of Renewable Energy Systems**” should be selected during your submission.

Also please note the following timetable:

Submission Deadline	May 14th, 2014
Publication Date	July 2014



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