Abstract

Artificial Neural Network has been popularly used for forecasting purposes over the past. There are some innate problems in neural network such as indefinite configuration, architecture, and learning issues, etc. To vanquish these problems, Generalized Neural Network (GNN) has been used. This paper illustrates the development of Quantum GA-GNN method for forecasting of solar photovoltaic system power output. The actual data has been collected from the solar system installed at the rooftop of the University building and processed. The forecasting models also developed using Artificial Neural Network (ANN), and the results are compared.


Forecasting of Solar Power using Quantum GA - GNN

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Index Terms

Computer Science  Applied Sciences

Keywords

Solar Power Forecasting, Quantum, Genetic Algorithm, GNN, Neural Network.