

## عنوان مقاله:

Intelligent Optimal Design and Energy Management of Battery Based Stand-Alone Wind/PV Generating System Using COA

## محل انتشار:

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## خلاصه مقاله:

the most of villages in our country received 98.5 to 99.5 percentage of their electrical energy from national distribution network. While some of them are faraway villages so connecting them to national network is expensive also this work cause increase rate of falling voltage. nowadays different source of energy especially renewable energies are used to answer the growth of demand energy fortunately iran is rich in renewable energy resources such as solar wind and etc therefore using different energy resources in faraway villages concluded improving of national electrical network independence in this paper a novel intelligent method is applied to the problem of optimal sizing and economic assessment in hybrid power system such that the demand of residential area is met. the purpose of this design is minimization of total cost of the stand -alone hybrid system over its 20 years of operation. this system includes .photovoltaic wind turbine and an lead -acid battery bank

## کلمات کلیدی:

optimization, cuckoo optimization algorithm, net present cost , wind photovoltaic

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/139396>

