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PHOTOVOLTAIC POWER PLANT POWER OUTPUT PREDICTION USING FUZZY RULES

ABSTRACT *Photovoltaic Power Plants (PVPP) are classified as power energy sources with non-stable supply of electric energy. It is necessary to back up power energy from PVPP for stable electric network operation. We can set an optimal value of back up power energy with using a variety of prediction models and methods for PVPP Power output prediction. Fuzzy classifiers and fuzzy rules can be informally defined as tools that use fuzzy sets or fuzzy logic for their operations. In this paper, we use genetic programming to evolve a fuzzy classifier in the form of a fuzzy search expression to predict PVPP Power output.*

Keywords: *Photovoltaic Power Plant, Fuzzy Rules, Prediction*