

Dear Editor in Chief,

Please consider the extension of selected paper entitled “Markov process reliability model for photovoltaic module failures,” presented at IMEKO TC 10 / 2016 workshop.

The extended paper is entitled “ A failure analysis and risk evaluation of PV balance of system failures”. The extension covers a further investigations conducted on PV Inverter (PVI) to prioritize the maintenance activities by determining the Risk Priority Number (RPN) of its component failures through quantitative criticality analysis. It is aimed by performing a CA on PVI components to implement the best preventive measures, based on the prioritization of failure modes for PVI components, in order to limit and avoid the outage modes of PVI which has the highest RPN in the CA of PV balance of system.

Thank you in advance and best regards

The authors