



Paper Presentation Certificate

This is to certify that the paper entitled

A New and Reliable Objective Functions for Extracting the Unknown Parameters of Solar Photovoltaic Cell Using Political Optimizer Algorithm

by *M Premkumar; R Sowmya; Pradeep Jangir; Jsv Siva Kumar*

has been presented at the

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Hatem Masri , Program Chair

A handwritten signature in purple ink, which appears to read "Hatem Masri".