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(57) Abstract :

The present invention relates to a system (100) and a method of remote detection of faults in electronic circuits using hardware simulation linkup along with fault guidance by machine learning. The Core Hardware block (A2) receives support from the Hardware-Simulation Transformation block (A3) and input from the Machine learning based circuit fault detection unit (A1) to predict the circuit fault through the user interface block remote circuit PCB fault detection (A5) and also can guide the user to repair the fault through the smart tester (A4) interactive user interface. The smart tester helps enhance the technicians' efficiency and provides quicker repair service. The remote circuit PCB fault detection helps to minimize electronic waste as the electronic machine user/ service provider could know what the fault in the machine is. Hardware-Simulation linkup enhances accuracy of fault detection, makes them easier to use and quicker to repair.

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