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(57) Abstract :

An automated fault detection system (100) for electrical appliances in a building such as office, home or the like is disclosed. The proposed system (100) is configured to monitor health of electrical appliances in real-time via machine learning (ML), thus increasing efficiency of the electrical appliances. Additionally, the proposed system detects fault in the electrical appliances through one or more current sensors (102) and provide an appropriate solution for the faults to mitigate faults without much human intervention. Also, the proposed system forecast whether the electrical appliances need repairing or replacing. Moreover, a set of sensors (104) is configured within the building to detect one or more attributes such as temperature humidity, or the like, and correspondingly the electrical appliances are controlled automatically.

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